

## [MS-WCFESAN]:

# WCF-Based Encrypted Server Administration and Notification Protocol

---

### Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](#) or the [Microsoft Community Promise](#). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting [iplg@microsoft.com](mailto:iplg@microsoft.com).
- **License Programs.** To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](#).
- **Trademarks.** The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit [www.microsoft.com/trademarks](http://www.microsoft.com/trademarks).
- **Fictitious Names.** The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

**Reservation of Rights.** All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

**Tools.** The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

**Support.** For questions and support, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

## Revision Summary

Date	Revision History	Revision Class	Comments
7/12/2012	1.0	New	Released new document.
10/25/2012	2.0	Major	Significantly changed the technical content.
1/31/2013	3.0	Major	Significantly changed the technical content.
8/8/2013	4.0	Major	Significantly changed the technical content.
11/14/2013	5.0	Major	Significantly changed the technical content.
2/13/2014	5.0	None	No change to the meaning, language, or formatting of the technical content.
5/15/2014	5.0	None	No change to the meaning, language, or formatting of the technical content.
6/30/2015	6.0	Major	Significantly changed the technical content.
10/16/2015	6.0	None	No changes to the meaning, language, or formatting of the technical content.
7/14/2016	7.0	Major	Significantly changed the technical content.
6/1/2017	8.0	Major	Significantly changed the technical content.
9/15/2017	9.0	Major	Significantly changed the technical content.
12/1/2017	9.0	None	No changes to the meaning, language, or formatting of the technical content.
9/12/2018	10.0	Major	Significantly changed the technical content.
4/7/2021	11.0	Major	Significantly changed the technical content.
4/23/2024	12.0	Major	Significantly changed the technical content.

# Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>30</b>
1.1	Glossary .....	30
1.2	References .....	31
1.2.1	Normative References .....	31
1.2.2	Informative References .....	32
1.3	Overview .....	32
1.4	Relationship to Other Protocols .....	33
1.5	Prerequisites/Preconditions .....	33
1.6	Applicability Statement .....	33
1.7	Versioning and Capability Negotiation .....	33
1.8	Vendor-Extensible Fields .....	34
1.9	Standards Assignments.....	34
<b>2</b>	<b>Messages.....</b>	<b>35</b>
2.1	Transport .....	35
2.2	Message Syntax .....	35
2.2.1	Namespaces .....	35
2.2.2	Messages.....	36
2.2.2.1	Common SOAP Fault .....	36
2.2.2.2	Keepalive.....	36
2.2.3	Elements .....	36
2.2.4	Complex Types.....	37
2.2.4.1	Client File Backup Provider .....	39
2.2.4.1.1	ClientFileBackupException .....	39
2.2.4.1.2	ConfigurationSet .....	39
2.2.4.2	Client Backup Provider.....	40
2.2.4.2.1	AutoExclusionSizesInfo .....	40
2.2.4.2.2	PCBackupClientFault .....	40
2.2.4.2.3	PCBackupConfiguration .....	41
2.2.4.2.4	PCBackupServerFault .....	41
2.2.4.2.5	PCBackupStatus .....	42
2.2.4.2.6	BadFileInfo .....	42
2.2.4.2.7	ClientConfig .....	43
2.2.4.2.8	ClientConfigurationInfo .....	43
2.2.4.2.9	ClientJobInfo .....	44
2.2.4.2.10	ClientRepairStatus .....	44
2.2.4.2.11	ClientVolumeInfo.....	45
2.2.4.2.12	ConfigureBackupFault .....	46
2.2.4.2.13	ExcludedFolderInfo .....	46
2.2.4.2.14	FolderInfo.....	46
2.2.4.2.15	FolderInfoGroup .....	47
2.2.4.2.16	FolderRequest .....	47
2.2.4.2.17	OperationStatusResponse.....	47
2.2.4.2.18	ServiceStatusResponse .....	48
2.2.4.2.19	VolumeJobInfo .....	48
2.2.4.2.20	WaitingOperation .....	49
2.2.4.2.21	RepairResult .....	50
2.2.4.3	Health Provider.....	50
2.2.4.3.1	AlertListChunk .....	50
2.2.4.3.2	AlertInfo.....	50
2.2.4.3.3	UserContextTask .....	52
2.2.4.3.4	ClearCommand .....	52
2.2.4.3.5	RaiseCommand .....	52
2.2.4.3.6	SuppressCommand.....	52
2.2.4.3.7	PlugInInfo .....	53

2.2.4.4	Machine Identity Provider	53
2.2.4.4.1	ReturnClass Type	53
2.2.4.4.2	GetMachineStatusType	54
2.2.4.5	User Identity Provider	54
2.2.4.5.1	PersonalInfo	54
2.2.4.5.2	UserInfo	54
2.2.4.5.3	UserFault	55
2.2.4.5.4	UserExceptionFault	55
2.2.4.5.5	ReturnClass	56
2.2.4.6	Provider Registry Service	56
2.2.4.6.1	ProviderEndpointBehaviorAttribute	56
2.2.4.6.2	ProviderInfo	56
2.2.4.6.3	RequiredImpersonationLevelAttribute	57
2.2.4.6.4	QuerySpecification	57
2.2.4.7	Addin Management	57
2.2.4.7.1	PackageInfo	57
2.2.4.7.2	ClientInstallFilter	58
2.2.4.7.3	Package	59
2.2.4.7.4	BinaryReference	60
2.2.4.7.5	Filter	60
2.2.4.7.6	OtherBinariesMap	60
2.2.4.7.7	Preinstall	61
2.2.4.7.8	UninstallConfirm	61
2.2.4.8	Network Service	61
2.2.4.8.1	VPNSetting	61
2.2.4.8.2	VirtualNetworkSettings	62
2.2.4.8.3	AddressPrefix	62
2.2.4.8.4	IPAddress	63
2.2.4.9	Domain Infrastructure Service	63
2.2.4.9.1	DomainProviderCredentials	63
2.2.4.9.2	DomainManagerFault	63
2.2.4.9.3	DnsRecord	64
2.2.4.9.4	SrvRecord	64
2.2.4.9.5	ARRecord	64
2.2.4.9.6	MXRecord	65
2.2.4.9.7	TxtRecord	65
2.2.4.9.8	CNameRecord	65
2.2.4.9.9	DomainState	66
2.2.4.9.10	CertificateState	66
2.2.4.9.11	DomainNameConfiguration	66
2.2.4.9.12	Offering	67
2.2.4.9.13	DynamicDNSInfo	68
2.2.4.9.14	DomainProviderManagerSettings	68
2.2.4.10	Office 365 Integration Service	69
2.2.4.10.1	O365ConfigurationException	69
2.2.4.11	Client Notification Service	69
2.2.4.11.1	NotificationResult	69
2.2.4.11.2	NotificationResults	69
2.2.4.11.3	Exception	69
2.2.5	Simple Types	70
2.2.5.1	Client File Backup Provider	72
2.2.5.1.1	SourceLibrary	72
2.2.5.1.2	ManagedStatus	72
2.2.5.2	Client Backup Provider	73
2.2.5.2.1	AbortReason	73
2.2.5.2.2	PCBackupClientFaultReason	74
2.2.5.2.3	PCBackupProviderState	74
2.2.5.2.4	PCBackupStatusOperation	75



2.2.5.2.5	PCBackupVolumePhase .....	75
2.2.5.2.6	CleanupStatus.....	76
2.2.5.2.7	PCClientDataStatus.....	76
2.2.5.2.8	ClientHealth.....	77
2.2.5.2.9	ClientJobStatus .....	77
2.2.5.2.10	ConfigureBackupFaultReason .....	78
2.2.5.2.11	DatabaseState .....	78
2.2.5.2.12	ExclusionReason.....	79
2.2.5.2.13	FailureReason .....	79
2.2.5.2.14	MountPhase .....	80
2.2.5.2.15	PCBackupRepairState.....	81
2.2.5.2.16	RetentionState .....	81
2.2.5.2.17	StopReason .....	82
2.2.5.2.18	VolumeJobStatus.....	82
2.2.5.2.19	VolumeLocation.....	83
2.2.5.2.20	VolumeStatus .....	83
2.2.5.2.21	PCBackupServerFaultReason.....	84
2.2.5.3	Health Provider.....	84
2.2.5.3.1	TaskType.....	84
2.2.5.3.2	HealthStatus.....	85
2.2.5.3.3	StreamBody.....	85
2.2.5.4	Machine Identity Provider.....	85
2.2.5.4.1	ErrorCatalogType .....	85
2.2.5.4.2	MachineStatus .....	86
2.2.5.5	User Identity Provider.....	87
2.2.5.5.1	WSSServerGroupType.....	87
2.2.5.5.2	UserCustomExceptionCode .....	87
2.2.5.5.3	RemoteAccessType .....	88
2.2.5.5.4	AccessLevelType .....	88
2.2.5.5.5	UserStatus .....	89
2.2.5.6	Provider Registry Service .....	89
2.2.5.6.1	CredentialType.....	89
2.2.5.6.2	ConnectionSetting .....	90
2.2.5.6.3	ImpersonationLevel .....	90
2.2.5.7	Addin Management .....	91
2.2.5.7.1	UpdateClassification.....	91
2.2.5.7.2	OSEditions.....	91
2.2.5.7.3	AddInError .....	92
2.2.5.8	Network Service .....	93
2.2.5.8.1	AddressFamily.....	93
2.2.5.9	Domain Infrastructure Service .....	98
2.2.5.9.1	FailureReason .....	98
2.2.5.9.2	DomainStatus .....	99
2.2.5.9.3	CertificateStatus.....	100
2.2.5.9.4	DomainType .....	101
2.2.5.9.5	DomainProviderEnvironment.....	101
2.2.5.10	AzureAD and HostedEmail Integration Service .....	102
2.2.5.10.1	PasswordChangeType .....	102
2.2.5.10.2	PasswordChangeStatus .....	102
<b>3</b>	<b>Protocol Details.....</b>	<b>104</b>
3.1	Client File Backup Provider Service Contract Details .....	104
3.1.1	Abstract Data Model.....	104
3.1.2	Timers .....	104
3.1.3	Initialization.....	104
3.1.4	Higher-Layer Triggered Events .....	104
3.1.5	Message Processing Events and Sequencing Rules .....	104
3.1.5.1	IUserConfigProvider.GetUserSettingAsync .....	104

3.1.5.1.1	Messages .....	104
3.1.5.1.1.1	IUserConfigProvider_GetUserSettingAsync_InputMessage .....	104
3.1.5.1.2	Elements .....	105
3.1.5.1.2.1	GetUserSettingAsync .....	105
3.1.5.2	IUserConfigProvider.GetClientManagedSettingAsync .....	105
3.1.5.2.1	Messages .....	105
3.1.5.2.1.1	IUserConfigProvider_GetClientManagedSettingAsync_InputMessage .....	105
3.1.5.2.2	Elements .....	106
3.1.5.2.2.1	GetClientManagedSettingAsync .....	106
3.1.5.3	IUserConfigProviderCallback.GetUserSettingCompleted .....	106
3.1.5.3.1	Messages .....	106
3.1.5.3.1.1	IUserConfigProvider_GetUserSettingCompleted_OutputCallbackMessage .....	106
3.1.5.3.2	Elements .....	106
3.1.5.3.2.1	GetUserSettingCompleted .....	106
3.1.5.4	IUserConfigProvider.GetClientManagedCompleted .....	107
3.1.5.4.1	Messages .....	107
3.1.5.4.1.1	IUserConfigProvider_GetClientManagedCompleted_OutputCallbackMessage .....	107
3.1.5.4.2	Elements .....	107
3.1.5.4.2.1	GetClientManagedCompleted .....	107
3.1.5.5	GetUserManagedSettingAsync .....	108
3.1.5.5.1	Messages .....	108
3.1.5.5.1.1	IUserConfigProvider_GetUserManagedSettingAsync_InputMessage .....	108
3.1.5.5.2	Elements .....	108
3.1.5.5.2.1	GetUserManagedSettingAsync .....	108
3.1.6	Timer Events .....	109
3.1.7	Other Local Events .....	109
3.2	Client Backup Provider Service Contract Details .....	109
3.2.1	Abstract Data Model .....	109
3.2.1.1	Backup Server .....	109
3.2.1.1.1	List of Backup Client Configurations .....	109
3.2.1.1.2	List of Backup Status .....	109
3.2.1.1.3	List of Backup Volume Configurations for Each Client .....	109
3.2.1.1.4	List of Backup Jobs .....	110
3.2.1.1.5	Backup Window and Retention Policy .....	110
3.2.1.1.6	Retention Policy .....	110
3.2.1.2	Backup Client .....	110
3.2.2	Timers .....	110
3.2.3	Initialization .....	110
3.2.4	Higher-Layer Triggered Events .....	110
3.2.5	Message Processing Events and Sequencing Rules .....	110
3.2.5.1	IPCBackupServerRegister.RegisterBackupClient .....	112
3.2.5.1.1	Messages .....	113
3.2.5.1.1.1	IPCBackupServerRegister_RegisterBackupClient_InputMessage .....	113
3.2.5.1.1.2	IPCBackupServerRegister_RegisterBackupClient_OutputMessage .....	113
3.2.5.1.2	Elements .....	113
3.2.5.1.2.1	RegisterBackupClient .....	113
3.2.5.1.2.2	RegisterBackupClientResponse .....	114
3.2.5.2	IPCBackupServerRegister.KeepAlive .....	114
3.2.5.2.1	Messages .....	114
3.2.5.2.1.1	IPCBackupServerRegister_KeepAlive_InputMessage .....	114
3.2.5.2.1.2	IPCBackupServerRegister_KeepAlive_OutputMessage .....	115
3.2.5.2.2	Elements .....	115
3.2.5.2.2.1	KeepAlive .....	115
3.2.5.2.2.2	KeepAliveResponse .....	115
3.2.5.3	IPCBackupServerRegister.VolumeCalculatorProgress .....	115

3.2.5.3.1	Messages .....	115
3.2.5.3.1.1	IPCBackupServerRegister_VolumeCalculatorProgress_InputMessage	115
3.2.5.3.2	Elements .....	116
3.2.5.3.2.1	VolumeCalculatorProgress .....	116
3.2.5.4	IPCBackupServerRegister.GetClientPriority .....	116
3.2.5.4.1	Messages .....	117
3.2.5.4.1.1	IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage	117
3.2.5.4.1.2	IPCBackupServerRegister_GetClientPriority_InputCallbackMessage	117
3.2.5.4.2	Elements .....	117
3.2.5.4.2.1	GetClientPriority .....	117
3.2.5.4.2.2	GetClientPriorityResponse .....	117
3.2.5.5	IPCBackupServerRegister.OnBatteryPower .....	118
3.2.5.5.1	Messages .....	118
3.2.5.5.1.1	IPCBackupServerRegister_OnBatteryPower_OutputCallbackMessage	118
3.2.5.5.1.2	IPCBackupServerRegister_OnBatteryPower_InputCallbackMessage	118
3.2.5.5.2	Elements .....	119
3.2.5.5.2.1	OnBatteryPower .....	119
3.2.5.5.2.2	OnBatteryPowerResponse .....	119
3.2.5.6	IPCBackupServerRegister.StartBackup .....	119
3.2.5.6.1	Messages .....	119
3.2.5.6.1.1	IPCBackupServerRegister_StartBackup_OutputCallbackMessage	120
3.2.5.6.1.2	IPCBackupServerRegister_StartBackup_InputCallbackMessage	120
3.2.5.6.2	Elements .....	120
3.2.5.6.2.1	StartBackup .....	120
3.2.5.6.2.2	StartBackupResponse .....	120
3.2.5.7	IPCBackupServerRegister.CancelBackup .....	121
3.2.5.7.1	Messages .....	121
3.2.5.7.1.1	IPCBackupServerRegister_CancelBackup_OutputCallbackMessage	121
3.2.5.7.1.2	IPCBackupServerRegister_CancelBackup_InputCallbackMessage	121
3.2.5.7.2	Elements .....	122
3.2.5.7.2.1	CancelBackup .....	122
3.2.5.7.2.2	CancelBackupResponse .....	122
3.2.5.8	IPCBackupServerRegister.UpdateBackupConfiguration .....	122
3.2.5.8.1	Messages .....	122
3.2.5.8.1.1	IPCBackupServerRegister_UpdateBackupConfiguration_OutputCallback Message .....	122
3.2.5.8.2	Elements .....	123
3.2.5.8.2.1	UpdateBackupConfiguration .....	123
3.2.5.9	IPCBackupServerRegister.SendBackupProgress .....	123
3.2.5.9.1	Messages .....	123
3.2.5.9.1.1	IPCBackupServerRegister_SendBackupProgress_OutputCallbackMessag e .....	123
3.2.5.9.2	Elements .....	124
3.2.5.9.2.1	SendBackupProgress .....	124
3.2.5.10	IPCBackupServerRegister.GetFolderChildren .....	124
3.2.5.10.1	Messages .....	124
3.2.5.10.1.1	IPCBackupServerRegister_GetFolderChildren_OutputCallbackMessage .....	124
3.2.5.10.1.2	IPCBackupServerRegister_GetFolderChildren_InputCallbackMessage	125
3.2.5.10.2	Elements .....	125
3.2.5.10.2.1	GetFolderChildren .....	125
3.2.5.10.2.2	GetFolderChildrenResponse .....	125
3.2.5.11	IPCBackupServerRegister.CalculateVolumeAsync .....	126
3.2.5.11.1	Messages .....	126

3.2.5.11.1.1	IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage.....	126
3.2.5.11.1.2	IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage.....	126
3.2.5.11.2	Elements.....	127
3.2.5.11.2.1	CalculateVolumeAsync.....	127
3.2.5.11.2.2	CalculateVolumeAsyncResponse.....	127
3.2.5.12	IPCBackupServerRegister.CleanFolderSizeCalculation.....	127
3.2.5.12.1	Messages.....	128
3.2.5.12.1.1	IPCBackupServerRegister_CleanFolderSizeCalculation_OutputCallbackMessage.....	128
3.2.5.12.2	Elements.....	128
3.2.5.12.2.1	CleanFolderSizeCalculation.....	128
3.2.5.13	IPCBackupServerRegister.GetConnectedVolumes.....	128
3.2.5.13.1	Messages.....	128
3.2.5.13.1.1	IPCBackupServerRegister_GetConnectedVolumes_OutputCallbackMessage.....	129
3.2.5.13.1.2	IPCBackupServerRegister_GetConnectedVolumes_InputCallbackMessage.....	129
3.2.5.13.2	Elements.....	129
3.2.5.13.2.1	GetConnectedVolumes.....	129
3.2.5.13.2.2	GetConnectedVolumesResponse.....	129
3.2.5.14	IPCBackupClientManagement.RescanVolumesAsync.....	130
3.2.5.14.1	Messages.....	130
3.2.5.14.1.1	IPCBackupServerRegister_RescanVolumesAsync_OutputCallbackMessage.....	130
3.2.5.14.2	Elements.....	130
3.2.5.14.2.1	RescanVolumesAsync.....	130
3.2.5.15	IPCBackupServerProvider.Register.....	131
3.2.5.15.1	Messages.....	131
3.2.5.15.1.1	IPCBackupServerProvider_Register_InputMessage.....	131
3.2.5.15.1.2	IPCBackupServerProvider_Register_OutputMessage.....	131
3.2.5.15.2	Elements.....	131
3.2.5.15.2.1	Register.....	132
3.2.5.15.2.2	RegisterResponse.....	132
3.2.5.16	IPCBackupServerProvider.GetClients.....	132
3.2.5.16.1	Messages.....	132
3.2.5.16.1.1	IPCBackupServerProvider_GetClients_InputMessage.....	132
3.2.5.16.1.2	IPCBackupServerProvider_GetClients_OutputMessage.....	133
3.2.5.16.2	Elements.....	133
3.2.5.16.2.1	GetClients.....	133
3.2.5.16.2.2	GetClientsResponse.....	133
3.2.5.17	IPCBackupServerProvider.GetClient.....	133
3.2.5.17.1	Messages.....	134
3.2.5.17.1.1	IPCBackupServerProvider_GetClient_InputMessage.....	134
3.2.5.17.1.2	IPCBackupServerProvider_GetClient_OutputMessage.....	134
3.2.5.17.2	Elements.....	134
3.2.5.17.2.1	GetClient.....	134
3.2.5.17.2.2	GetClientResponse.....	135
3.2.5.18	IPCBackupServerProvider.GetClientJobs.....	135
3.2.5.18.1	Messages.....	135
3.2.5.18.1.1	IPCBackupServerProvider_GetClientJobs_InputMessage.....	135

3.2.5.18.1.2	IPCBackupServerProvider_GetClientJobs_OutputMessage .....	136
3.2.5.18.2	Elements .....	136
3.2.5.18.2.1	GetClientJobs .....	136
3.2.5.18.2.2	GetClientJobsResponse .....	136
3.2.5.19	IPCBackupServerProvider.GetVolumeJobs .....	137
3.2.5.19.1	Messages .....	137
3.2.5.19.1.1	IPCBackupServerProvider_GetVolumeJobs_InputMessage .....	137
3.2.5.19.1.2	IPCBackupServerProvider_GetVolumeJobs_OutputMessage .....	137
3.2.5.19.2	Elements .....	138
3.2.5.19.2.1	GetVolumeJobs .....	138
3.2.5.19.2.2	GetVolumeJobsResponse .....	138
3.2.5.20	IPCBackupServerProvider.GetClientVolumes .....	138
3.2.5.20.1	Messages .....	139
3.2.5.20.1.1	IPCBackupServerProvider_GetClientVolumes_InputMessage .....	139
3.2.5.20.1.2	IPCBackupServerProvider_GetClientVolumes_OutputMessage .....	139
3.2.5.20.2	Elements .....	139
3.2.5.20.2.1	GetClientVolumes .....	139
3.2.5.20.2.2	GetClientVolumesResponse .....	140
3.2.5.21	IPCBackupServerProvider.SetClientJobDescription .....	140
3.2.5.21.1	Messages .....	140
3.2.5.21.1.1	IPCBackupServerProvider_SetClientJobDescription_InputMessage... ..	140
3.2.5.21.1.2	IPCBackupServerProvider_SetClientJobDescription_OutputMessage ..	141
3.2.5.21.2	Elements .....	141
3.2.5.21.2.1	SetClientJobDescription .....	141
3.2.5.21.2.2	SetClientJobDescriptionResponse .....	141
3.2.5.22	IPCBackupServerProvider.SetClientJobRetentionState .....	142
3.2.5.22.1	Messages .....	142
3.2.5.22.1.1	IPCBackupServerProvider_SetClientJobRetentionState_InputMessage ..	142
3.2.5.22.1.2	IPCBackupServerProvider_SetClientJobRetentionState_OutputMessage ..	142
3.2.5.22.2	Elements .....	143
3.2.5.22.2.1	SetClientJobRetentionState .....	143
3.2.5.22.2.2	SetClientJobRetentionStateResponse .....	143
3.2.5.23	IPCBackupServerProvider.SetClientVolumeStatus .....	143
3.2.5.23.1	Messages .....	144
3.2.5.23.1.1	IPCBackupServerProvider_SetClientVolumeStatus_InputMessage ... ..	144
3.2.5.23.1.2	IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage ..	144
3.2.5.23.2	Elements .....	144
3.2.5.23.2.1	SetClientVolumeStatus .....	144
3.2.5.23.2.2	SetClientVolumeStatusResponse .....	145
3.2.5.24	IPCBackupServerProvider.SetExcludedFolders .....	145
3.2.5.24.1	Messages .....	146
3.2.5.24.1.1	IPCBackupServerProvider_SetExcludedFolders_InputMessage .....	146
3.2.5.24.1.2	IPCBackupServerProvider_SetExcludedFolders_OutputMessage .....	146
3.2.5.24.2	Elements .....	146
3.2.5.24.2.1	SetExcludedFolders .....	146
3.2.5.24.2.2	SetExcludedFoldersResponse .....	146
3.2.5.25	IPCBackupServerProvider.EnableBackups .....	147
3.2.5.25.1	Messages .....	147
3.2.5.25.1.1	IPCBackupServerProvider_EnableBackups_InputMessage .....	147
3.2.5.25.1.2	IPCBackupServerProvider_EnableBackups_OutputMessage .....	147
3.2.5.25.2	Elements .....	148
3.2.5.25.2.1	EnableBackups .....	148
3.2.5.25.2.2	EnableBackupsResponse .....	148
3.2.5.26	IPCBackupServerProvider.DisableBackups .....	148
3.2.5.26.1	Messages .....	149
3.2.5.26.1.1	IPCBackupServerProvider_DisableBackups_InputMessage .....	149

3.2.5.26.1.2	IPCBackupServerProvider_DisableBackups_OutputMessage.....	149
3.2.5.26.2	Elements.....	149
3.2.5.26.2.1	DisableBackups.....	149
3.2.5.26.2.2	DisableBackupsResponse.....	149
3.2.5.27	IPCBackupServerProvider.GetBackupConfiguration.....	150
3.2.5.27.1	Messages.....	150
3.2.5.27.1.1	IPCBackupServerProvider_GetBackupConfiguration_InputMessage..	150
3.2.5.27.1.2	IPCBackupServerProvider_GetBackupConfiguration_OutputMessage	150
3.2.5.27.2	Elements.....	151
3.2.5.27.2.1	GetBackupConfiguration.....	151
3.2.5.27.2.2	GetBackupConfigurationResponse.....	151
3.2.5.28	IPCBackupServerProvider.GetDefaultBackupConfiguration.....	151
3.2.5.28.1	Messages.....	152
3.2.5.28.1.1	IPCBackupServerProvider_GetDefaultBackupConfiguration_InputMessag e.....	152
3.2.5.28.1.2	IPCBackupServerProvider_GetDefaultBackupConfiguration_OutputMessa ge.....	152
3.2.5.28.2	Elements.....	152
3.2.5.28.2.1	GetDefaultBackupConfiguration.....	152
3.2.5.28.2.2	GetDefaultBackupConfigurationResponse.....	153
3.2.5.29	IPCBackupServerProvider.GetBackupOperationStatus.....	153
3.2.5.29.1	Messages.....	153
3.2.5.29.1.1	IPCBackupServerProvider_GetBackupOperationStatus_InputMessage .....	153
3.2.5.29.1.2	IPCBackupServerProvider_GetBackupOperationStatus_OutputMessage .....	154
3.2.5.29.2	Elements.....	154
3.2.5.29.2.1	GetBackupOperationStatus.....	154
3.2.5.29.2.2	GetBackupOperationStatusResponse.....	154
3.2.5.30	IPCBackupServerProvider.GetServiceStatus.....	155
3.2.5.30.1	Messages.....	155
3.2.5.30.1.1	IPCBackupServerProvider_GetServiceStatus_InputMessage.....	155
3.2.5.30.1.2	IPCBackupServerProvider_GetServiceStatus_OutputMessage.....	155
3.2.5.30.2	Elements.....	156
3.2.5.30.2.1	GetServiceStatus.....	156
3.2.5.30.2.2	GetServiceStatusResponse.....	156
3.2.5.31	IPCBackupServerProvider.GetWaitingOperations.....	156
3.2.5.31.1	Messages.....	157
3.2.5.31.1.1	IPCBackupServerProvider_GetWaitingOperations_InputMessage.....	157
3.2.5.31.1.2	IPCBackupServerProvider_GetWaitingOperations_OutputMessage...	157
3.2.5.31.2	Elements.....	157
3.2.5.31.2.1	GetWaitingOperations.....	157
3.2.5.31.2.2	GetWaitingOperationsResponse.....	157
3.2.5.32	IPCBackupServerProvider.SetBackupConfiguration.....	158
3.2.5.32.1	Messages.....	158
3.2.5.32.1.1	IPCBackupServerProvider_SetBackupConfiguration_InputMessage..	158
3.2.5.32.1.2	IPCBackupServerProvider_SetBackupConfiguration_OutputMessage	158
3.2.5.32.2	Elements.....	159
3.2.5.32.2.1	SetBackupConfiguration.....	159
3.2.5.32.2.2	SetBackupConfigurationResponse.....	159
3.2.5.33	IPCBackupServerProvider.GetUsedBytes.....	159
3.2.5.33.1	Messages.....	160
3.2.5.33.1.1	IPCBackupServerProvider_GetUsedBytes_InputMessage.....	160
3.2.5.33.1.2	IPCBackupServerProvider_GetUsedBytes_OutputMessage.....	160
3.2.5.33.2	Elements.....	160
3.2.5.33.2.1	GetUsedBytes.....	160

3.2.5.33.2.2	GetUsedBytesResponse .....	160
3.2.5.34	IPCBackupServerProvider.StartCleanup .....	161
3.2.5.34.1	Messages .....	161
3.2.5.34.1.1	IPCBackupServerProvider_StartCleanup_InputMessage .....	161
3.2.5.34.1.2	IPCBackupServerProvider_StartCleanup_OutputMessage .....	161
3.2.5.34.2	Elements .....	162
3.2.5.34.2.1	StartCleanup .....	162
3.2.5.34.2.2	StartCleanupResponse.....	162
3.2.5.35	IPCBackupServerProvider.CancelCleanup .....	162
3.2.5.35.1	Messages .....	163
3.2.5.35.1.1	IPCBackupServerProvider_CancelCleanup_InputMessage .....	163
3.2.5.35.1.2	IPCBackupServerProvider_CancelCleanup_OutputMessage .....	163
3.2.5.35.2	Elements .....	163
3.2.5.35.2.1	CancelCleanup.....	163
3.2.5.35.2.2	CancelCleanupResponse .....	163
3.2.5.36	IPCBackupServerProvider.StartRepair .....	164
3.2.5.36.1	Messages .....	164
3.2.5.36.1.1	IPCBackupServerProvider_StartRepair_InputMessage.....	164
3.2.5.36.1.2	IPCBackupServerProvider_StartRepair_OutputMessage.....	164
3.2.5.36.2	Elements .....	165
3.2.5.36.2.1	StartRepair .....	165
3.2.5.36.2.2	StartRepairResponse .....	165
3.2.5.37	IPCBackupServerProvider.CancelRepair .....	165
3.2.5.37.1	Messages .....	165
3.2.5.37.1.1	IPCBackupServerProvider_CancelRepair_InputMessage .....	165
3.2.5.37.1.2	IPCBackupServerProvider_CancelRepair_OutputMessage .....	166
3.2.5.37.2	Elements.....	166
3.2.5.37.2.1	CancelRepair .....	166
3.2.5.37.2.2	CancelRepairResponse.....	166
3.2.5.38	IPCBackupServerProvider.GetLastRepairResult .....	166
3.2.5.38.1	Messages .....	167
3.2.5.38.1.1	IPCBackupServerProvider_GetLastRepairResult_InputMessage .....	167
3.2.5.38.1.2	IPCBackupServerProvider_GetLastRepairResult_OutputMessage .....	167
3.2.5.38.2	Elements .....	167
3.2.5.38.2.1	GetLastRepairResult .....	168
3.2.5.38.2.2	GetLastRepairResultResponse.....	168
3.2.5.39	IPCBackupServerProvider.StartConsistencyChecker .....	168
3.2.5.39.1	Messages .....	168
3.2.5.39.1.1	IPCBackupServerProvider_StartConsistencyChecker_InputMessage.....	169
3.2.5.39.1.2	IPCBackupServerProvider_StartConsistencyChecker_OutputMessage.....	169
3.2.5.39.2	Elements .....	169
3.2.5.39.2.1	StartConsistencyChecker .....	169
3.2.5.39.2.2	StartConsistencyCheckerResponse .....	169
3.2.5.40	IPCBackupServerProvider.CancelConsistencyChecker .....	170
3.2.5.40.1	Messages .....	170
3.2.5.40.1.1	IPCBackupServerProvider_CancelConsistencyChecker_InputMessage.....	170
3.2.5.40.1.2	IPCBackupServerProvider_CancelConsistencyChecker_OutputMessage .....	170
3.2.5.40.2	Elements.....	171
3.2.5.40.2.1	CancelConsistencyChecker .....	171
3.2.5.40.2.2	CancelConsistencyCheckerResponse.....	171
3.2.5.41	IPCBackupServerProvider.Remove .....	171
3.2.5.41.1	Messages .....	171
3.2.5.41.1.1	IPCBackupServerProvider_Remove_InputMessage .....	172
3.2.5.41.1.2	IPCBackupServerProvider_Remove_OutputMessage .....	172
3.2.5.41.2	Elements.....	172
3.2.5.41.2.1	Remove .....	172
3.2.5.41.2.2	RemoveResponse.....	172

3.2.5.42	IPCBackupServerProvider.CalculateVolumeAsync .....	173
3.2.5.42.1	Messages .....	173
3.2.5.42.1.1	IPCBackupServerProvider_CalculateVolumeAsync_InputMessage ....	173
3.2.5.42.1.2	IPCBackupServerProvider_CalculateVolumeAsync_OutputMessage ..	173
3.2.5.42.2	Elements .....	174
3.2.5.42.2.1	CalculateVolumeAsync .....	174
3.2.5.42.2.2	CalculateVolumeAsyncResponse .....	174
3.2.5.43	IPCBackupServerProvider.GetFolderChildren .....	174
3.2.5.43.1	Messages .....	175
3.2.5.43.1.1	IPCBackupServerProvider_GetFolderChildren_InputMessage .....	175
3.2.5.43.1.2	IPCBackupServerProvider_GetFolderChildren_OutputMessage .....	175
3.2.5.43.2	Elements .....	175
3.2.5.43.2.1	GetFolderChildren .....	175
3.2.5.43.2.2	GetFolderChildrenResponse .....	176
3.2.5.44	IPCBackupServerProvider.GetConnectedVolumes .....	176
3.2.5.44.1	Messages .....	176
3.2.5.44.1.1	IPCBackupServerProvider_GetConnectedVolumes_InputMessage ....	177
3.2.5.44.1.2	IPCBackupServerProvider_GetConnectedVolumes_OutputMessage ..	177
3.2.5.44.2	Elements .....	177
3.2.5.44.2.1	GetConnectedVolumes .....	177
3.2.5.44.2.2	GetConnectedVolumesResponse .....	177
3.2.5.45	IPCBackupServerProvider.CleanFolderSizeCalculation .....	178
3.2.5.45.1	Messages .....	178
3.2.5.45.1.1	IPCBackupServerProvider_CleanFolderSizeCalculation_InputMessage	178
3.2.5.45.2	Elements .....	178
3.2.5.45.2.1	CleanFolderSizeCalculation .....	178
3.2.5.46	IPCBackupServerProvider.StartBackup .....	179
3.2.5.46.1	Messages .....	179
3.2.5.46.1.1	IPCBackupServerProvider_StartBackup_InputMessage .....	179
3.2.5.46.1.2	IPCBackupServerProvider_StartBackup_OutputMessage .....	179
3.2.5.46.2	Elements .....	180
3.2.5.46.2.1	StartBackup .....	180
3.2.5.46.2.2	StartBackupResponse .....	180
3.2.5.47	IPCBackupServerProvider.CancelBackup .....	180
3.2.5.47.1	Messages .....	180
3.2.5.47.1.1	IPCBackupServerProvider_CancelBackup_InputMessage .....	180
3.2.5.47.1.2	IPCBackupServerProvider_CancelBackup_OutputMessage .....	181
3.2.5.47.2	Elements .....	181
3.2.5.47.2.1	CancelBackup .....	181
3.2.5.47.2.2	CancelBackupResponse .....	181
3.2.5.48	IPCBackupServerProvider.StartBackupService .....	182
3.2.5.48.1	Messages .....	182
3.2.5.48.1.1	IPCBackupServerProvider_StartBackupService_InputMessage .....	182
3.2.5.48.1.2	IPCBackupServerProvider_StartBackupService_OutputMessage .....	182
3.2.5.48.2	Elements .....	183
3.2.5.48.2.1	StartBackupService .....	183
3.2.5.48.2.2	StartBackupServiceResponse .....	183
3.2.5.49	IPCBackupServerProvider.StopBackupService .....	183
3.2.5.49.1	Messages .....	183
3.2.5.49.1.1	IPCBackupServerProvider_StopBackupService_InputMessage .....	183
3.2.5.49.1.2	IPCBackupServerProvider_StopBackupService_OutputMessage .....	184
3.2.5.49.2	Elements .....	184
3.2.5.49.2.1	StopBackupService .....	184
3.2.5.49.2.2	StopBackupServiceResponse .....	184
3.2.5.50	IPCBackupServerProvider.NotifyBackupOperationStatusChange .....	185
3.2.5.50.1	Messages .....	185



3.2.5.50.1.1	IPCBackupServerProvider_NotifyBackupOperationStatusChange_Output CallbackMessage.....	185
3.2.5.50.2	Elements.....	185
3.2.5.50.2.1	NotifyBackupOperationStatusChange.....	185
3.2.5.51	IPCBackupServerProvider.VolumeCalculatorProgress.....	186
3.2.5.51.1	Messages.....	186
3.2.5.51.1.1	IPCBackupServerProvider_VolumeCalculatorProgress_OutputCallbackMe ssage.....	186
3.2.5.51.2	Elements.....	186
3.2.5.51.2.1	VolumeCalculatorProgress.....	186
3.2.5.52	IPCBackupServerProvider.NotifyServiceStatusChange.....	187
3.2.5.52.1	Messages.....	187
3.2.5.52.1.1	IPCBackupServerProvider_NotifyServiceStatusChange_OutputCallbackM essage.....	187
3.2.5.52.2	Elements.....	187
3.2.5.52.2.1	NotifyServiceStatusChange.....	187
3.2.6	Timer Events.....	188
3.2.7	Other Local Events.....	188
3.3	Health Provider Service Contract Details.....	188
3.3.1	Abstract Data Model.....	188
3.3.1.1	ADM_ArrayOfKeyValueOfstringArrayOfAlertInfo.....	188
3.3.1.1.1	Data Model.....	188
3.3.1.1.1.1	AlertInfo.....	188
3.3.2	Timers.....	189
3.3.3	Initialization.....	189
3.3.4	Higher-Layer Triggered Events.....	189
3.3.5	Message Processing Events and Sequencing Rules.....	189
3.3.5.1	IAlertProviderCallback.RaiseAlertCompleted.....	190
3.3.5.1.1	Messages.....	191
3.3.5.1.1.1	IAlertProviderCallback_RaiseAlertCompleted_OutputCallbackMessage .....	191
3.3.5.1.2	Elements.....	191
3.3.5.1.2.1	RaiseAlertCompleted.....	191
3.3.5.2	IAlertProviderCallback.ClearAlertCompleted.....	191
3.3.5.2.1	Messages.....	191
3.3.5.2.1.1	IAlertProviderCallback_ClearAlertCompleted_OutputCallbackMessage .....	192
3.3.5.2.2	Elements.....	192
3.3.5.2.2.1	ClearAlertCompleted.....	192
3.3.5.3	IAlertProviderCallback.SuppressAlertCompleted.....	192
3.3.5.3.1	Messages.....	192
3.3.5.3.1.1	IAlertProviderCallback_SuppressAlertCompleted_OutputCallbackMessag e.....	192
3.3.5.3.2	Elements.....	193
3.3.5.3.2.1	SuppressAlertCompleted.....	193
3.3.5.4	IAlertProviderCallback.RepairAlertCompleted.....	193
3.3.5.4.1	Messages.....	193
3.3.5.4.1.1	IAlertProviderCallback_RepairAlertCompleted_OutputCallbackMessage .....	193
3.3.5.4.2	Elements.....	193
3.3.5.4.2.1	RepairAlertCompleted.....	194
3.3.5.5	IAlertProviderCallback.EvaluateAlertsCompleted.....	194
3.3.5.5.1	Messages.....	194

3.3.5.5.1.1	IAlertProviderCallback_EvaluateAlertsCompleted_OutputCallbackMessage	194
3.3.5.5.2	Elements	194
3.3.5.5.2.1	EvaluateAlertsCompleted	194
3.3.5.6	IAlertProviderCallback.RaisedAlerts	195
3.3.5.6.1	Messages	195
3.3.5.6.1.1	IAlertProviderCallback_RaisedAlerts_OutputCallbackMessage	195
3.3.5.6.2	Elements	195
3.3.5.6.2.1	RaisedAlerts	195
3.3.5.7	IAlertProviderCallback.ClearedAlerts	196
3.3.5.7.1	Messages	196
3.3.5.7.1.1	IAlertProviderCallback_ClearedAlerts_OutputCallbackMessage	196
3.3.5.7.2	Elements	196
3.3.5.7.2.1	ClearedAlerts	196
3.3.5.8	IAlertSynchCallback.AlertChanged	197
3.3.5.8.1	Messages	197
3.3.5.8.1.1	IAlertSynchCallback_AlertChanged_OutputCallbackMessage	197
3.3.5.8.2	Elements	197
3.3.5.8.2.1	AlertChanged	197
3.3.5.9	IAlertManagementProviderService.GetAllNetworkAlerts	197
3.3.5.9.1	Messages	198
3.3.5.9.1.1	IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage	198
3.3.5.9.1.2	IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage	198
3.3.5.9.2	Elements	199
3.3.5.9.2.1	GetAllNetworkAlerts	199
3.3.5.9.2.2	GetAllNetworkAlertsResponse	199
3.3.5.10	IAlertManagementProviderService.ClearAlertOneWay	199
3.3.5.10.1	Messages	199
3.3.5.10.1.1	IAlertManagementProviderService_ClearAlertOneWay_InputMessage	199
3.3.5.10.2	Elements	200
3.3.5.10.2.1	ClearAlertOneWay	200
3.3.5.11	IAlertManagementProviderService.ClearAlert	200
3.3.5.11.1	Messages	200
3.3.5.11.1.1	IAlertManagementProviderService_ClearAlert_InputMessage	200
3.3.5.11.1.2	IAlertManagementProviderService_ClearAlert_OutputMessage	201
3.3.5.11.2	Elements	201
3.3.5.11.2.1	ClearAlert	201
3.3.5.11.2.2	ClearAlertResponse	201
3.3.5.12	IAlertManagementProviderService.SuppressAlertOneWay	202
3.3.5.12.1	Messages	202
3.3.5.12.1.1	IAlertManagementProviderService_SuppressAlertOneWay_InputMessage	202
3.3.5.12.2	Elements	202
3.3.5.12.2.1	SuppressAlertOneWay	202
3.3.5.13	IAlertManagementProviderService.SuppressAlert	203
3.3.5.13.1	Messages	203
3.3.5.13.1.1	IAlertManagementProviderService_SuppressAlert_InputMessage	203
3.3.5.13.1.2	IAlertManagementProviderService_SuppressAlert_OutputMessage	203
3.3.5.13.2	Elements	204
3.3.5.13.2.1	SuppressAlert	204
3.3.5.13.2.2	SuppressAlertResponse	204
3.3.5.14	IAlertManagementProviderService.RaiseAlertOneWay	204
3.3.5.14.1	Messages	204

3.3.5.14.1.1	IAlertManagementProviderService_RaiseAlertOneWay_InputMessage	204
3.3.5.14.2	Elements	205
3.3.5.14.2.1	RaiseAlertOneWay	205
3.3.5.15	IAlertManagementProviderService.RaiseAlert	205
3.3.5.15.1	Messages	205
3.3.5.15.1.1	IAlertManagementProviderService_RaiseAlert_InputMessage	206
3.3.5.15.1.2	IAlertManagementProviderService_RaiseAlert_OutputMessage	206
3.3.5.15.2	Elements	206
3.3.5.15.2.1	RaiseAlert	206
3.3.5.15.2.2	RaiseAlertResponse	206
3.3.5.16	IAlertManagementProviderService.IsAuthorized	207
3.3.5.16.1	Messages	207
3.3.5.16.1.1	IAlertManagementProviderService_IsAuthorized_InputMessage	207
3.3.5.16.1.2	IAlertManagementProviderService_IsAuthorized_OutputMessage	207
3.3.5.16.2	Elements	208
3.3.5.16.2.1	IsAuthorized	208
3.3.5.16.2.2	IsAuthorizedResponse	208
3.3.5.17	IAlertSynchProviderService.RegisterClientAgent	208
3.3.5.17.1	Messages	208
3.3.5.17.1.1	IAlertSynchProviderService_RegisterClientAgent_InputMessage	209
3.3.5.17.1.2	IAlertSynchProviderService_RegisterClientAgent_OutputMessage	209
3.3.5.17.2	Elements	209
3.3.5.17.2.1	RegisterClientAgent	209
3.3.5.17.2.2	RegisterClientAgentResponse	209
3.3.5.18	IAlertSynchProviderService.SynchronizeAlerts	210
3.3.5.18.1	Messages	210
3.3.5.18.1.1	IAlertSynchProviderService_SynchronizeAlerts_InputMessage	210
3.3.5.18.2	Elements	210
3.3.5.18.2.1	SynchronizeAlerts	210
3.3.5.19	IAlertSynchProviderService.ClearCallbackCommandQueue	211
3.3.5.19.1	Messages	211
3.3.5.19.1.1	IAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage	211
3.3.5.19.1.2	IAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage	211
3.3.5.19.2	Elements	212
3.3.5.19.2.1	ClearCallbackCommandQueue	212
3.3.5.19.2.2	ClearCallbackCommandQueueResponse	212
3.3.5.20	IAlertSynchProviderService.GetPlugInInformation	212
3.3.5.20.1	Messages	212
3.3.5.20.1.1	IAlertSynchProviderService_GetPlugInInformation_InputMessage	212
3.3.5.20.1.2	IAlertSynchProviderService_GetPlugInInformation_OutputMessage	213
3.3.5.20.2	Elements	213
3.3.5.20.2.1	GetPlugInInformation	213
3.3.5.20.2.2	GetPlugInInformationResponse	213
3.3.5.21	IAlertSynchProviderService.DownloadDefinition	214
3.3.5.21.1	Messages	214
3.3.5.21.1.1	IAlertSynchProviderService_DownloadDefinition_InputMessage	214
3.3.5.21.1.2	IAlertSynchProviderService_DownloadDefinition_OutputMessage	214
3.3.5.21.2	Elements	214
3.3.5.21.2.1	DownloadDefinition	214
3.3.5.21.2.2	DownloadDefinitionResponse	215
3.3.5.22	IAlertSynchProviderService.DownloadConfiguration	215
3.3.5.22.1	Messages	215
3.3.5.22.1.1	IAlertSynchProviderService_DownloadConfiguration_InputMessage	215

3.3.5.22.1.2	IAlertSynchProviderService_DownloadConfiguration_OutputMessage	216
3.3.5.22.2	Elements	216
3.3.5.22.2.1	DownloadConfiguration	216
3.3.5.22.2.2	DownloadConfigurationResponse	216
3.3.6	Timer Events	216
3.3.7	Other Local Events	217
3.4	Machine Identity Provider Service Contract Details	217
3.4.1	Abstract Data Model	217
3.4.1.1	Machine Identity	217
3.4.1.2	Machine RDP Permission	217
3.4.2	Timers	217
3.4.3	Initialization	217
3.4.4	Higher-Layer Triggered Events	217
3.4.5	Message Processing Events and Sequencing Rules	217
3.4.5.1	IMachineIdentityProvider.ReturnNewCertResponse	218
3.4.5.1.1	Messages	218
3.4.5.1.1.1	IMachineIdentityProvider_ReturnNewCertResponse_OutputCallbackMessage	218
3.4.5.1.2	Elements	219
3.4.5.1.2.1	ReturnNewCertResponse	219
3.4.5.2	IMachineIdentityProvider.ReturnRenewCert	219
3.4.5.2.1	Messages	219
3.4.5.2.1.1	IMachineIdentityProvider_ReturnRenewCert_OutputCallbackMessage	219
3.4.5.2.2	Elements	219
3.4.5.2.2.1	ReturnRenewCert	220
3.4.5.3	IMachineIdentityProvider.ReturnSid	220
3.4.5.3.1	Messages	220
3.4.5.3.1.1	IMachineIdentityProvider_ReturnSid_OutputCallbackMessage	220
3.4.5.3.2	Elements	220
3.4.5.3.2.1	ReturnSid	220
3.4.5.4	IMachineIdentityProvider.ReturnRevokeCert	221
3.4.5.4.1	Messages	221
3.4.5.4.1.1	IMachineIdentityProvider_ReturnRevokeCert_OutputCallbackMessage	221
3.4.5.4.2	Elements	221
3.4.5.4.2.1	ReturnRevokeCert	221
3.4.5.5	IMachineIdentityProvider.ReturnRemoveMachine	222
3.4.5.5.1	Messages	222
3.4.5.5.1.1	IMachineIdentityProvider_ReturnRemoveMachine_OutputCallbackMessage	222
3.4.5.5.2	Elements	222
3.4.5.5.2.1	ReturnRemoveMachine	222
3.4.5.6	IMachineIdentityProvider.ReturnGetMachineStatus	222
3.4.5.6.1	Messages	223
3.4.5.6.1.1	IMachineIdentityProvider_ReturnGetMachineStatus_OutputCallbackMessage	223
3.4.5.6.2	Elements	223
3.4.5.6.2.1	ReturnGetMachineStatus	223
3.4.5.7	IMachineIdentityProvider.ReturnMakeUserRemoteDesktopMapping	223
3.4.5.7.1	Messages	224
3.4.5.7.1.1	IMachineIdentityProvider_ReturnMakeUserRemoteDesktopMapping_OutputCallbackMessage	224
3.4.5.7.2	Elements	224

3.4.5.7.2.1	ReturnMakeUserRemoteDesktopMapping .....	224
3.4.5.8	IMachineIdentityProvider.RemoveMachine.....	224
3.4.5.8.1	Messages .....	224
3.4.5.8.1.1	IMachineIdentityProvider_RemoveMachine_InputMessage.....	224
3.4.5.8.2	Elements.....	225
3.4.5.8.2.1	RemoveMachine.....	225
3.4.5.9	IMachineIdentityProvider.RenewCert .....	225
3.4.5.9.1	Messages .....	225
3.4.5.9.1.1	IMachineIdentityProvider_RenewCert_InputMessage .....	225
3.4.5.9.2	Elements.....	226
3.4.5.9.2.1	RenewCert .....	226
3.4.5.10	IMachineIdentityProvider.RevokeCert .....	226
3.4.5.10.1	Messages .....	226
3.4.5.10.1.1	IMachineIdentityProvider_RevokeCert_InputMessage .....	226
3.4.5.10.2	Elements.....	226
3.4.5.10.2.1	RevokeCert .....	227
3.4.5.11	IMachineIdentityProvider.GenerateCertResponse .....	227
3.4.5.11.1	Messages .....	227
3.4.5.11.1.1	IMachineIdentityProvider_GenerateCertResponse_InputMessage ....	227
3.4.5.11.2	Elements.....	227
3.4.5.11.2.1	GenerateCertResponse .....	227
3.4.5.12	IMachineIdentityProvider.GenerateSid .....	228
3.4.5.12.1	Messages .....	228
3.4.5.12.1.1	IMachineIdentityProvider_GenerateSid_InputMessage .....	228
3.4.5.12.2	Elements.....	228
3.4.5.12.2.1	GenerateSid .....	228
3.4.5.13	IMachineIdentityProvider.GetMachineStatus .....	229
3.4.5.13.1	Messages .....	229
3.4.5.13.1.1	IMachineIdentityProvider_GetMachineStatus_InputMessage .....	229
3.4.5.13.2	Elements.....	229
3.4.5.13.2.1	GetMachineStatus .....	229
3.4.5.14	IMachineIdentityProvider.MakeUserRemoteDesktopMapping .....	230
3.4.5.14.1	Messages .....	230
3.4.5.14.1.1	IMachineIdentityProvider_MakeUserRemoteDesktopMapping_InputMess age.....	230
3.4.5.14.2	Elements.....	230
3.4.5.14.2.1	MakeUserRemoteDesktopMapping.....	230
3.4.6	Timer Events.....	230
3.4.7	Other Local Events.....	231
3.5	User Identity Provider Service Contract Details .....	231
3.5.1	Abstract Data Model.....	231
3.5.1.1	ADM_KeyValueOfUser.....	231
3.5.1.1.1	Data Model .....	231
3.5.1.1.1.1	UserInfo .....	231
3.5.1.1.1.1.1	PersonalInfo .....	231
3.5.2	Timers .....	232
3.5.3	Initialization.....	232
3.5.4	Higher-Layer Triggered Events .....	232
3.5.5	Message Processing Events and Sequencing Rules .....	232
3.5.5.1	IUserLogonProvider.LogonUser .....	232
3.5.5.1.1	Messages .....	233
3.5.5.1.1.1	IUserLogonProvider_LogonUser_InputMessage .....	233
3.5.5.1.1.2	IUserLogonProvider_LogonUser_OutputMessage .....	233
3.5.5.1.2	Elements.....	233
3.5.5.1.2.1	LogonUser .....	233
3.5.5.1.2.2	LogonUserResponse .....	234
3.5.5.2	IUserChangePasswordProvider.ChangePassword .....	234

3.5.5.2.1	Messages .....	235
3.5.5.2.1.1	IUserChangePasswordProvider_ChangePassword_InputMessage .....	235
3.5.5.2.1.2	IUserChangePasswordProvider_ChangePassword_OutputMessage .....	235
3.5.5.2.2	Elements .....	235
3.5.5.2.2.1	ChangePassword .....	235
3.5.5.2.2.2	ChangePasswordResponse .....	236
3.5.5.3	IUserInfoProvider.ReturnGroups .....	236
3.5.5.3.1	Messages .....	236
3.5.5.3.1.1	IUserInfoProvider_ReturnGroups_OutputCallbackMessage .....	236
3.5.5.3.2	Elements .....	237
3.5.5.3.2.1	ReturnGroups .....	237
3.5.5.4	IUserInfoProvider.ReturnWSSServerGroups .....	237
3.5.5.4.1	Messages .....	237
3.5.5.4.1.1	IUserInfoProvider_ReturnWSSServerGroups_OutputCallbackMessage .....	237
3.5.5.4.2	Elements .....	238
3.5.5.4.2.1	ReturnWSSServerGroups .....	238
3.5.5.5	IUserInfoProvider.ReturnIsPartOfServerUsers .....	238
3.5.5.5.1	Messages .....	238
3.5.5.5.1.1	IUserInfoProvider_ReturnIsPartOfServerUsers_OutputCallbackMessage .....	238
3.5.5.5.2	Elements .....	239
3.5.5.5.2.1	ReturnIsPartOfServerUsers .....	239
3.5.5.6	IUserInfoProvider.GetGroups .....	239
3.5.5.6.1	Messages .....	239
3.5.5.6.1.1	IUserInfoProvider_GetGroups_InputMessage .....	239
3.5.5.6.2	Elements .....	240
3.5.5.6.2.1	GetGroups .....	240
3.5.5.7	IUserInfoProvider.GetWSSServerGroups .....	240
3.5.5.7.1	Messages .....	240
3.5.5.7.1.1	IUserInfoProvider_GetWSSServerGroups_InputMessage .....	240
3.5.5.7.2	Elements .....	240
3.5.5.7.2.1	GetWSSServerGroups .....	240
3.5.5.8	IUserInfoProvider.IsPartOfServerUsers .....	241
3.5.5.8.1	Messages .....	241
3.5.5.8.1.1	IUserInfoProvider_IsPartOfServerUsers_InputMessage .....	241
3.5.5.8.2	Elements .....	241
3.5.5.8.2.1	IsPartOfServerUsers .....	241
3.5.6	Timer Events .....	242
3.5.7	Other Local Events .....	242
3.6	Provider Registry Service Contract Details .....	242
3.6.1	Abstract Data Model .....	242
3.6.2	Timers .....	242
3.6.3	Initialization .....	242
3.6.4	Higher-Layer Triggered Events .....	242
3.6.5	Message Processing Events and Sequencing Rules .....	242
3.6.5.1	IProviderRegistry.Disconnect .....	243
3.6.5.1.1	Messages .....	243
3.6.5.1.1.1	IProviderRegistry_Disconnect_InputMessage .....	243
3.6.5.1.2	Elements .....	243
3.6.5.1.2.1	Disconnect .....	243
3.6.5.2	IProviderRegistry.Query .....	243
3.6.5.2.1	Messages .....	244
3.6.5.2.1.1	IProviderRegistry_Query_InputMessage .....	244
3.6.5.2.1.2	IProviderRegistry_Query_OutputMessage .....	244
3.6.5.2.2	Elements .....	244
3.6.5.2.2.1	Query .....	244
3.6.5.2.2.2	QueryResponse .....	245

3.6.5.3	IProviderRegistry.QueryAll .....	245
3.6.5.3.1	Messages .....	245
3.6.5.3.1.1	IProviderRegistry_QueryAll_InputMessage .....	245
3.6.5.3.1.2	IProviderRegistry_QueryAll_OutputMessage .....	246
3.6.5.3.2	Elements .....	246
3.6.5.3.2.1	QueryAll .....	246
3.6.5.3.2.2	QueryAllResponse .....	246
3.6.5.4	IProviderRegistry.RequestProviderInfoUpdate .....	246
3.6.5.4.1	Messages .....	247
3.6.5.4.1.1	IProviderRegistry_RequestProviderInfoUpdate_InputMessage .....	247
3.6.5.4.1.2	IProviderRegistry_RequestProviderInfoUpdate_OutputMessage .....	247
3.6.5.4.2	Elements .....	247
3.6.5.4.2.1	RequestProviderInfoUpdate .....	247
3.6.5.4.2.2	RequestProviderInfoUpdateResponse .....	248
3.6.5.5	IProviderRegistry.GetVersion .....	248
3.6.5.5.1	Messages .....	248
3.6.5.5.1.1	IProviderRegistry_GetVersion_InputMessage .....	248
3.6.5.5.1.2	IProviderRegistry_GetVersion_OutputMessage .....	248
3.6.5.5.2	Elements .....	249
3.6.5.5.2.1	GetVersion .....	249
3.6.5.5.2.2	GetVersionResponse .....	249
3.6.5.6	IProviderRegistry.InformOfProviderUpdate .....	249
3.6.5.6.1	Messages .....	249
3.6.5.6.1.1	IProviderRegistry_InformOfProviderUpdate_OutputCallbackMessage .....	249
3.6.5.6.2	Elements .....	250
3.6.5.6.2.1	InformOfProviderUpdate .....	250
3.6.5.7	INotificationProviderServiceAdminOnly.Connect .....	250
3.6.5.7.1	Messages .....	250
3.6.5.7.1.1	INotificationProviderServiceAdminOnly_Connect_InputMessage .....	250
3.6.5.7.2	Elements .....	251
3.6.5.7.2.1	Connect .....	251
3.6.5.8	INotificationProviderServiceAdminOnly.RaiseNotifications .....	251
3.6.5.8.1	Messages .....	251
3.6.5.8.1.1	INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage .....	251
3.6.5.8.2	Elements .....	252
3.6.5.8.2.1	RaiseNotifications .....	252
3.6.5.9	INotificationProviderServiceAdminOnly.ClearNotifications .....	252
3.6.5.9.1	Messages .....	252
3.6.5.9.1.1	INotificationProviderServiceAdminOnly_ClearNotifications_InputMessage .....	252
3.6.5.9.2	Elements .....	253
3.6.5.9.2.1	ClearNotifications .....	253
3.6.5.10	INotificationProviderServiceAdminOnly.RequestNotificationChange .....	253
3.6.5.10.1	Messages .....	253
3.6.5.10.1.1	INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage .....	253
3.6.5.10.2	Elements .....	254
3.6.5.10.2.1	RequestNotificationChange .....	254
3.6.5.11	INotificationProviderServiceAdminOnly.FireEvent .....	254
3.6.5.11.1	Messages .....	254
3.6.5.11.1.1	INotificationProviderServiceAdminOnly_FireEvent_InputMessage .....	254
3.6.5.11.2	Elements .....	255
3.6.5.11.2.1	FireEvent .....	255
3.6.5.12	INotificationProviderServiceAdminOnly.AddCategoryFilters .....	255
3.6.5.12.1	Messages .....	255

3.6.5.12.1.1	INotificationProviderServiceAdminOnly_AddCategoryFilters_InputMessage.....	255
3.6.5.12.2	Elements.....	256
3.6.5.12.2.1	AddCategoryFilters.....	256
3.6.5.13	INotificationProviderServiceAdminOnly.RemoveCategoryFilters.....	256
3.6.5.13.1	Messages.....	256
3.6.5.13.1.1	INotificationProviderServiceAdminOnly_RemoveCategoryFilters_InputMessage.....	256
3.6.5.13.2	Elements.....	257
3.6.5.13.2.1	RemoveCategoryFilters.....	257
3.6.5.14	INotificationProviderServiceAdminOnly.Disconnect.....	257
3.6.5.14.1	Messages.....	257
3.6.5.14.1.1	INotificationProviderServiceAdminOnly_Disconnect_InputMessage..	257
3.6.5.14.2	Elements.....	258
3.6.5.14.2.1	Disconnect.....	258
3.6.6	Timer Events.....	258
3.6.7	Other Local Events.....	258
3.7	Addin Management Service Contract Details.....	258
3.7.1	Abstract Data Model.....	258
3.7.2	Timers.....	258
3.7.3	Initialization.....	258
3.7.4	Higher-Layer Triggered Events.....	258
3.7.5	Message Processing Events and Sequencing Rules.....	259
3.7.5.1	IAddInMetadata.GetPackagePath.....	259
3.7.5.1.1	Messages.....	260
3.7.5.1.1.1	IAddInMetadata_GetPackagePath_InputMessage.....	260
3.7.5.1.1.2	IAddInMetadata_GetPackagePath_OutputMessage.....	260
3.7.5.1.2	Elements.....	260
3.7.5.1.2.1	GetPackagePath.....	260
3.7.5.1.2.2	GetPackagePathResponse.....	261
3.7.5.2	IAddInMetadata.GetAddInIds.....	261
3.7.5.2.1	Messages.....	261
3.7.5.2.1.1	IAddInMetadata_GetAddInIds_InputMessage.....	261
3.7.5.2.1.2	IAddInMetadata_GetAddInIds_OutputMessage.....	261
3.7.5.2.2	Elements.....	262
3.7.5.2.2.1	GetAddInIds.....	262
3.7.5.2.2.2	GetAddInIdsResponse.....	262
3.7.5.3	IAddInMetadata.GetAddInInformation.....	262
3.7.5.3.1	Messages.....	263
3.7.5.3.1.1	IAddInMetadata_GetAddInInformation_InputMessage.....	263
3.7.5.3.1.2	IAddInMetadata_GetAddInInformation_OutputMessage.....	263
3.7.5.3.2	Elements.....	263
3.7.5.3.2.1	GetAddInInformation.....	263
3.7.5.3.2.2	GetAddInInformationResponse.....	263
3.7.5.4	IAddInMetadata.RegisterForChanges.....	264
3.7.5.4.1	Messages.....	264
3.7.5.4.1.1	IAddInMetadata_RegisterForChanges_InputMessage.....	264
3.7.5.4.1.2	IAddInMetadata_RegisterForChanges_OutputMessage.....	264
3.7.5.4.2	Elements.....	265
3.7.5.4.2.1	RegisterForChanges.....	265
3.7.5.4.2.2	RegisterForChangesResponse.....	265
3.7.5.5	IAddInMetadata.OperationInProgress.....	265
3.7.5.5.1	Messages.....	265
3.7.5.5.1.1	IAddInMetadata_OperationInProgress_InputMessage.....	266
3.7.5.5.1.2	IAddInMetadata_OperationInProgress_OutputMessage.....	266
3.7.5.5.2	Elements.....	266



3.7.5.5.2.1	OperationInProgress.....	266
3.7.5.5.2.2	OperationInProgressResponse .....	266
3.7.5.6	IAddInMetadata.ChangeOccured .....	267
3.7.5.6.1	Messages .....	267
3.7.5.6.1.1	IAddInMetadata_ChangeOccured_OutputCallbackMessage .....	267
3.7.5.6.2	Elements .....	267
3.7.5.6.2.1	ChangeOccured .....	267
3.7.5.7	IAddInMetadataInstall.CheckCredentials .....	267
3.7.5.7.1	Messages .....	268
3.7.5.7.1.1	IAddInMetadataInstall_CheckCredentials_InputMessage .....	268
3.7.5.7.1.2	IAddInMetadataInstall_CheckCredentials_OutputMessage .....	268
3.7.5.7.2	Elements .....	268
3.7.5.7.2.1	CheckCredentials .....	268
3.7.5.7.2.2	CheckCredentialsResponse .....	268
3.7.5.8	IAddInMetadataInstall.InstallAddIn .....	269
3.7.5.8.1	Messages .....	269
3.7.5.8.1.1	IAddInMetadataInstall_InstallAddIn_InputMessage .....	269
3.7.5.8.2	Elements .....	269
3.7.5.8.2.1	InstallAddIn .....	269
3.7.5.9	IAddInMetadataInstall.DownloadInstallAddIn.....	270
3.7.5.9.1	Messages .....	270
3.7.5.9.1.1	IAddInMetadataInstall_DownloadInstallAddIn_InputMessage .....	270
3.7.5.9.2	Elements .....	270
3.7.5.9.2.1	DownloadInstallAddIn.....	270
3.7.5.10	IAddInMetadataInstall.UninstallAddIn .....	271
3.7.5.10.1	Messages .....	271
3.7.5.10.1.1	IAddInMetadataInstall_UninstallAddIn_InputMessage .....	271
3.7.5.10.2	Elements .....	271
3.7.5.10.2.1	UninstallAddIn .....	271
3.7.5.11	IAddInMetadataInstall.CancelOperation .....	272
3.7.5.11.1	Messages .....	272
3.7.5.11.1.1	IAddInMetadataInstall_CancelOperation_InputMessage .....	272
3.7.5.11.2	Elements .....	272
3.7.5.11.2.1	CancelOperation .....	272
3.7.5.12	IAddInMetadataInstall.StartUploadAddinFile .....	272
3.7.5.12.1	Messages .....	273
3.7.5.12.1.1	IAddInMetadataInstall_StartUploadAddinFile_InputMessage .....	273
3.7.5.12.1.2	IAddInMetadataInstall_StartUploadAddinFile_OutputMessage .....	273
3.7.5.12.2	Elements .....	273
3.7.5.12.2.1	StartUploadAddinFile .....	273
3.7.5.12.2.2	StartUploadAddinFileResponse.....	274
3.7.5.13	IAddInMetadataInstall.UploadAddinFile .....	274
3.7.5.13.1	Messages .....	274
3.7.5.13.1.1	IAddInMetadataInstall_UploadAddinFile_InputMessage .....	274
3.7.5.13.1.2	IAddInMetadataInstall_UploadAddinFile_OutputMessage .....	275
3.7.5.13.2	Elements .....	275
3.7.5.13.2.1	UploadAddinFile .....	275
3.7.5.13.2.2	UploadAddinFileResponse.....	275
3.7.5.14	IAddInMetadataInstall.EndUploadAddinFile .....	275
3.7.5.14.1	Messages .....	276
3.7.5.14.1.1	IAddInMetadataInstall_EndUploadAddinFile_InputMessage.....	276
3.7.5.14.1.2	IAddInMetadataInstall_EndUploadAddinFile_OutputMessage.....	276
3.7.5.14.2	Elements .....	276
3.7.5.14.2.1	EndUploadAddinFile.....	276
3.7.5.14.2.2	EndUploadAddinFileResponse .....	277
3.7.5.15	IAddInMetadataInstall.ProgressChanged .....	277
3.7.5.15.1	Messages .....	277
3.7.5.15.1.1	IAddInMetadataInstall_ProgressChanged_OutputCallbackMessage ..	277

3.7.5.15.2	Elements .....	277
3.7.5.15.2.1	ProgressChanged .....	277
3.7.5.16	IAddInMetadataInstall.ErrorOccured .....	278
3.7.5.16.1	Messages .....	278
3.7.5.16.1.1	IAddInMetadataInstall_ErrorOccured_OutputCallbackMessage .....	278
3.7.5.16.2	Elements .....	278
3.7.5.16.2.1	ErrorOccured .....	278
3.7.5.17	IAddInMetadataInstall.RebootRequired .....	279
3.7.5.17.1	Messages .....	279
3.7.5.17.1.1	IAddInMetadataInstall_RebootRequired_OutputCallbackMessage .....	279
3.7.5.17.2	Elements .....	279
3.7.5.17.2.1	RebootRequired .....	279
3.7.5.18	IAddInMetadataInstall.RestartDashboardRequired .....	279
3.7.5.18.1	Messages .....	279
3.7.5.18.1.1	IAddInMetadataInstall_RestartDashboardRequired_OutputCallbackMessage .....	280
3.7.5.18.2	Elements .....	280
3.7.5.18.2.1	RestartDashboardRequired .....	280
3.7.6	Timer Events .....	280
3.7.7	Other Local Events .....	280
3.8	Network Service Contract Details .....	280
3.8.1	Abstract Data Model .....	280
3.8.2	Timers .....	280
3.8.3	Initialization .....	280
3.8.4	Higher-Layer Triggered Events .....	281
3.8.5	Message Processing Events and Sequencing Rules .....	281
3.8.5.1	INetworkingService.UpdateClientAddress .....	281
3.8.5.1.1	Messages .....	281
3.8.5.1.1.1	INetworkingService_UpdateClientAddress_InputMessage .....	281
3.8.5.1.1.2	INetworkingService_UpdateClientAddress_OutputMessage .....	282
3.8.5.1.2	Elements .....	282
3.8.5.1.2.1	UpdateClientAddress .....	282
3.8.5.1.2.2	UpdateClientAddressResponse .....	282
3.8.5.2	INetworkingService.RemoveClient .....	282
3.8.5.2.1	Messages .....	283
3.8.5.2.1.1	INetworkingService_RemoveClient_InputMessage .....	283
3.8.5.2.1.2	INetworkingService_RemoveClient_OutputMessage .....	283
3.8.5.2.2	Elements .....	283
3.8.5.2.2.1	RemoveClient .....	283
3.8.5.2.2.2	RemoveClientResponse .....	284
3.8.5.3	INetworkingService.Ping .....	284
3.8.5.3.1	Messages .....	284
3.8.5.3.1.1	INetworkingService_Ping_InputMessage .....	284
3.8.5.3.1.2	INetworkingService_Ping_OutputMessage .....	284
3.8.5.3.2	Elements .....	285
3.8.5.3.2.1	Ping .....	285
3.8.5.3.2.2	PingResponse .....	285
3.8.5.4	INetworkingService.GetVPNServerSetting .....	285
3.8.5.4.1	Messages .....	285
3.8.5.4.1.1	INetworkingService_GetVPNServerSetting_InputMessage .....	285
3.8.5.4.1.2	INetworkingService_GetVPNServerSetting_OutputMessage .....	286
3.8.5.4.2	Elements .....	286
3.8.5.4.2.1	GetVPNServerSetting .....	286
3.8.5.4.2.2	GetVPNServerSettingResponse .....	286
3.8.5.5	INetworkService.GetVirtualNetworkSettings .....	286
3.8.5.5.1	Messages .....	287
3.8.5.5.1.1	INetworkService_GetVirtualNetworkSettings_InputMessage .....	287

3.8.5.5.1.2	INetworkService_GetVirtualNetworkSettings_OutputMessage .....	287
3.8.5.5.2	Elements .....	287
3.8.5.5.2.1	GetVirtualNetworkSettings .....	287
3.8.5.5.2.2	GetVirtualNetworkSettingsResponse .....	288
3.8.6	Timer Events.....	288
3.8.7	Other Local Events.....	288
3.9	Domain Infrastructure Service Contract Details.....	288
3.9.1	Abstract Data Model.....	288
3.9.2	Timers .....	288
3.9.3	Initialization.....	288
3.9.4	Higher-Layer Triggered Events .....	288
3.9.5	Message Processing Events and Sequencing Rules .....	288
3.9.5.1	IDomainMaintenanceManager.SetCredentials.....	289
3.9.5.1.1	Messages .....	290
3.9.5.1.1.1	IDomainMaintenanceManager_SetCredentials_InputMessage .....	290
3.9.5.1.1.2	IDomainMaintenanceManager_SetCredentials_OutputMessage .....	290
3.9.5.1.2	Elements .....	290
3.9.5.1.2.1	SetCredentials .....	290
3.9.5.1.2.2	SetCredentialsResponse.....	290
3.9.5.2	IDomainMaintenanceManager.ValidateCredentials .....	291
3.9.5.2.1	Messages .....	291
3.9.5.2.1.1	IDomainMaintenanceManager_ValidateCredentials_InputMessage ...	291
3.9.5.2.1.2	IDomainMaintenanceManager_ValidateCredentials_OutputMessage.	291
3.9.5.2.2	Elements .....	292
3.9.5.2.2.1	ValidateCredentials .....	292
3.9.5.2.2.2	ValidateCredentialsResponse .....	292
3.9.5.3	IDomainMaintenanceManager.UpdateDnsRecords .....	292
3.9.5.3.1	Messages .....	293
3.9.5.3.1.1	IDomainMaintenanceManager_UpdateDnsRecords_InputMessage ...	293
3.9.5.3.1.2	IDomainMaintenanceManager_UpdateDnsRecords_OutputMessage .	293
3.9.5.3.2	Elements .....	293
3.9.5.3.2.1	UpdateDnsRecords .....	293
3.9.5.3.2.2	UpdateDnsRecordsResponse.....	294
3.9.5.4	IDomainMaintenanceManager.QueryAddressFromDNS .....	294
3.9.5.4.1	Messages .....	294
3.9.5.4.1.1	IDomainMaintenanceManager_QueryAddressFromDNS_InputMessage	294
3.9.5.4.1.2	IDomainMaintenanceManager_QueryAddressFromDNS_OutputMessage	295
3.9.5.4.2	Elements .....	295
3.9.5.4.2.1	QueryAddressFromDNS .....	295
3.9.5.4.2.2	QueryAddressFromDNSResponse .....	295
3.9.5.5	IDomainMaintenanceManager.QueryAddressFromProvider.....	295
3.9.5.5.1	Messages .....	296
3.9.5.5.1.1	IDomainMaintenanceManager_QueryAddressFromProvider_InputMessag	296
3.9.5.5.1.2	IDomainMaintenanceManager_QueryAddressFromProvider_OutputMess	296
3.9.5.5.2	Elements .....	296
3.9.5.5.2.1	QueryAddressFromProvider .....	296
3.9.5.5.2.2	QueryAddressFromProviderResponse.....	297
3.9.5.6	IDomainMaintenanceManager.TestConnection .....	297
3.9.5.6.1	Messages .....	297
3.9.5.6.1.1	IDomainMaintenanceManager_TestConnection_InputMessage .....	297
3.9.5.6.1.2	IDomainMaintenanceManager_TestConnection_OutputMessage .....	298
3.9.5.6.2	Elements .....	298

3.9.5.6.2.1	TestConnection.....	298
3.9.5.6.2.2	TestConnectionResponse .....	298
3.9.5.7	IDomainMaintenanceManager.GetDomainState .....	298
3.9.5.7.1	Messages .....	299
3.9.5.7.1.1	IDomainMaintenanceManager_GetDomainState_InputMessage .....	299
3.9.5.7.1.2	IDomainMaintenanceManager_GetDomainState_OutputMessage .....	299
3.9.5.7.2	Elements .....	299
3.9.5.7.2.1	GetDomainState .....	299
3.9.5.7.2.2	GetDomainStateResponse .....	300
3.9.5.8	IDomainMaintenanceManager.GetCertificateState .....	300
3.9.5.8.1	Messages .....	300
3.9.5.8.1.1	IDomainMaintenanceManager_GetCertificateState_InputMessage .....	300
3.9.5.8.1.2	IDomainMaintenanceManager_GetCertificateState_OutputMessage .....	301
3.9.5.8.2	Elements .....	301
3.9.5.8.2.1	GetCertificateState .....	301
3.9.5.8.2.2	GetCertificateStateResponse .....	301
3.9.5.9	IDomainMaintenanceManager.GetDomainNameConfiguration .....	301
3.9.5.9.1	Messages .....	302
3.9.5.9.1.1	IDomainMaintenanceManager_GetDomainNameConfiguration_InputMessage .....	302
3.9.5.9.1.2	IDomainMaintenanceManager_GetDomainNameConfiguration_OutputMessage .....	302
3.9.5.9.2	Elements .....	302
3.9.5.9.2.1	GetDomainNameConfiguration .....	302
3.9.5.9.2.2	GetDomainNameConfigurationResponse .....	303
3.9.5.10	IDomainMaintenanceManager.GetDynamicDNSInfo .....	303
3.9.5.10.1	Messages .....	303
3.9.5.10.1.1	IDomainMaintenanceManager_GetDynamicDNSInfo_InputMessage .....	303
3.9.5.10.1.2	IDomainMaintenanceManager_GetDynamicDNSInfo_OutputMessage .....	304
3.9.5.10.2	Elements .....	304
3.9.5.10.2.1	GetDynamicDNSInfo .....	304
3.9.5.10.2.2	GetDynamicDNSInfoResponse .....	304
3.9.5.11	IDomainMaintenanceManager.GetSettings .....	304
3.9.5.11.1	Messages .....	305
3.9.5.11.1.1	IDomainMaintenanceManager_GetSettings_InputMessage .....	305
3.9.5.11.1.2	IDomainMaintenanceManager_GetSettings_OutputMessage .....	305
3.9.5.11.2	Elements .....	305
3.9.5.11.2.1	GetSettings .....	305
3.9.5.11.2.2	GetSettingsResponse .....	306
3.9.6	Timer Events .....	306
3.9.7	Other Local Events .....	306
3.10	AzureAD and HostedEmail Integration Service Contract Details .....	306
3.10.1	Abstract Data Model .....	306
3.10.2	Timers .....	306
3.10.3	Initialization .....	306
3.10.4	Higher-Layer Triggered Events .....	306
3.10.5	Message Processing Events and Sequencing Rules .....	306
3.10.5.1	IPasswordSyncClientProvider.Disconnect .....	307
3.10.5.1.1	Messages .....	307
3.10.5.1.1.1	IPasswordSyncClientProvider_Disconnect_InputMessage .....	307
3.10.5.1.2	Elements .....	307
3.10.5.1.2.1	Disconnect .....	307
3.10.5.2	IPasswordSyncClientProvider.RaiseOperationInvokeEvent .....	307
3.10.5.2.1	Messages .....	308

3.10.5.2.1.1	IO365ClientProvider_RaiseOperationInvokeEvent_OutputCallbackMessage.....	308
3.10.5.2.2	Elements.....	308
3.10.5.2.2.1	RaiseOperationInvokeEvent.....	308
3.10.5.3	IO365ClientProvider.GetSharePointAddress.....	308
3.10.5.3.1	Messages.....	309
3.10.5.3.1.1	IO365ClientProvider_GetSharePointAddress_InputMessage.....	309
3.10.5.3.1.2	IO365ClientProvider_GetSharePointAddress_OutputMessage.....	309
3.10.5.3.2	Elements.....	309
3.10.5.3.2.1	GetSharePointAddress.....	309
3.10.5.3.2.2	GetSharePointAddressResponse.....	310
3.10.5.4	IO365ClientProvider.IsActivated.....	310
3.10.5.4.1	Messages.....	310
3.10.5.4.1.1	IO365ClientProvider_IsActivated_InputMessage.....	310
3.10.5.4.1.2	IO365ClientProvider_IsActivated_OutputMessage.....	311
3.10.5.4.2	Elements.....	311
3.10.5.4.2.1	IsActivated.....	311
3.10.5.4.2.2	IsActivatedResponse.....	311
3.10.5.5	IPasswordSyncClientProvider.GetPasswordChangeStatus.....	311
3.10.5.5.1	Messages.....	312
3.10.5.5.1.1	IPasswordSyncClientProvider_GetPasswordChangeStatus_InputMessage.....	312
3.10.5.5.1.2	IPasswordSyncClientProvider_GetPasswordChangeStatus_OutputMessage.....	312
3.10.5.5.2	Elements.....	312
3.10.5.5.2.1	GetPasswordChangeStatus.....	312
3.10.5.5.2.2	GetPasswordChangeStatusResponse.....	313
3.10.5.6	IPasswordSyncClientProvider.MarkUserPasswordChangeFixed.....	313
3.10.5.6.1	Messages.....	313
3.10.5.6.1.1	IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_InputMessage.....	313
3.10.5.6.1.2	IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_OutputMessage.....	314
3.10.5.6.2	Elements.....	314
3.10.5.6.2.1	MarkUserPasswordChangeFixed.....	314
3.10.5.6.2.2	MarkUserPasswordChangeFixedResponse.....	314
3.10.5.7	IO365ClientProvider.GetEmailAddress.....	315
3.10.5.7.1	Messages.....	315
3.10.5.7.1.1	IO365ClientProvider_GetEmailAddress_InputMessage.....	315
3.10.5.7.1.2	IO365ClientProvider_GetEmailAddress_OutputMessage.....	315
3.10.5.7.2	Elements.....	315
3.10.5.7.2.1	GetEmailAddress.....	315
3.10.5.7.2.2	GetEmailAddressResponse.....	316
3.10.6	Timer Events.....	316
3.10.7	Other Local Events.....	316
3.11	Client Notification Service Contract Details.....	316
3.11.1	Abstract Data Model.....	316
3.11.2	Timers.....	316
3.11.3	Initialization.....	316
3.11.4	Higher-Layer Triggered Events.....	316
3.11.5	Message Processing Events and Sequencing Rules.....	317
3.11.5.1	IClientRegistrationService.RegisterClient.....	317
3.11.5.1.1	Messages.....	317
3.11.5.1.1.1	IClientRegistrationService_RegisterClient_InputMessage.....	317

3.11.5.1.2	Elements .....	317
3.11.5.1.2.1	RegisterClient .....	317
3.11.5.2	IClientNotificationCallback.NotificationReceived .....	318
3.11.5.2.1	Messages .....	318
3.11.5.2.1.1	IClientNotificationCallback_NotificationReceived_OutputCallbackMessage .....	318
3.11.5.2.1.2	IClientNotificationCallback_NotificationReceived_InputCallbackMessage .....	318
3.11.5.2.2	Elements .....	318
3.11.5.2.2.1	NotificationReceived .....	318
3.11.5.2.2.2	NotificationReceivedResponse .....	319
3.11.5.3	IClientNotificationProvider.NotifyClientByName .....	319
3.11.5.3.1	Messages .....	319
3.11.5.3.1.1	IClientNotificationProvider_NotifyClientByName_InputMessage .....	319
3.11.5.3.1.2	IClientNotificationProvider_NotifyClientByName_OutputMessage .....	320
3.11.5.3.2	Elements .....	320
3.11.5.3.2.1	NotifyClientByName .....	320
3.11.5.3.2.2	NotifyClientByNameResponse .....	320
3.11.5.4	IClientNotificationProvider.NotifyClientById .....	320
3.11.5.4.1	Messages .....	321
3.11.5.4.1.1	IClientNotificationProvider_NotifyClientById_InputMessage .....	321
3.11.5.4.1.2	IClientNotificationProvider_NotifyClientById_OutputMessage .....	321
3.11.5.4.2	Elements .....	321
3.11.5.4.2.1	NotifyClientById .....	321
3.11.5.4.2.2	NotifyClientByIdResponse .....	322
3.11.5.5	IClientNotificationProvider.NotifyAllClients .....	322
3.11.5.5.1	Messages .....	322
3.11.5.5.1.1	IClientNotificationProvider_NotifyAllClients_InputMessage .....	322
3.11.5.5.1.2	IClientNotificationProvider_NotifyAllClients_OutputMessage .....	322
3.11.5.5.2	Elements .....	323
3.11.5.5.2.1	NotifyAllClients .....	323
3.11.5.5.2.2	NotifyAllClientsResponse .....	323
<b>4</b>	<b>Protocol Examples .....</b>	<b>324</b>
4.1	Get the Computer Backup Service Status .....	324
<b>5</b>	<b>Security .....</b>	<b>325</b>
5.1	Security Considerations for Implementers .....	325
5.1.1	User Identity .....	325
5.1.2	Machine Identity .....	325
5.2	Index of Security Parameters .....	325
<b>6</b>	<b>Appendix A: Full WSDL .....</b>	<b>326</b>
6.1	Client File Backup Provider Service WSDL .....	326
6.1.1	wsdl .....	326
6.1.2	http://tempuri.org/ .....	328
6.1.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup .....	329
6.1.4	http://schemas.microsoft.com/2003/10/Serialization/ .....	329
6.1.5	http://schemas.datacontract.org/2004/07/System .....	330
6.2	Client Backup Provider Service WSDL .....	331
6.2.1	IPCBackupServerRegister .....	331
6.2.1.1	wsdl .....	331
6.2.1.2	http://tempuri.org .....	337
6.2.1.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts .....	340

6.2.1.4	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	342
6.2.1.5	<a href="http://schemas.microsoft.com/2003/10/Serialization">http://schemas.microsoft.com/2003/10/Serialization</a>	342
6.2.1.6	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	343
6.2.2	IPCBackupServerProvider	344
6.2.2.1	wsdl	344
6.2.2.2	<a href="http://tempuri.org">http://tempuri.org</a>	373
6.2.2.3	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts</a>	381
6.2.2.4	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	388
6.2.2.5	<a href="http://schemas.microsoft.com/2003/10/Serialization">http://schemas.microsoft.com/2003/10/Serialization</a>	389
6.2.2.6	<a href="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security">http://schemas.datacontract.org/2004/07/System.ServiceModel.Security</a>	389
6.2.2.7	<a href="http://schemas.datacontract.org/2004/07/System.ServiceModel">http://schemas.datacontract.org/2004/07/System.ServiceModel</a>	390
6.2.2.8	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	390
6.3	Health Provider Service WSDL	390
6.3.1	wsdl	390
6.3.2	<a href="http://tempuri.org">http://tempuri.org</a>	401
6.3.3	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Commands">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Commands</a>	405
6.3.4	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service</a>	406
6.3.5	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework</a>	406
6.3.6	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine</a>	407
6.3.7	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	408
6.3.8	<a href="http://schemas.microsoft.com/2003/10/Serialization">http://schemas.microsoft.com/2003/10/Serialization</a>	408
6.3.9	<a href="http://schemas.microsoft.com/Message">http://schemas.microsoft.com/Message</a>	409
6.3.10	<a href="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security">http://schemas.datacontract.org/2004/07/System.ServiceModel.Security</a>	409
6.3.11	<a href="http://schemas.datacontract.org/2004/07/System.ServiceModel">http://schemas.datacontract.org/2004/07/System.ServiceModel</a>	409
6.3.12	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	410
6.4	Machine Identity Provider Service WSDL	410
6.4.1	wsdl	410
6.4.2	<a href="http://tempuri.org">http://tempuri.org</a>	414
6.4.3	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity</a>	416
6.4.4	<a href="http://schemas.microsoft.com/2003/10/Serialization">http://schemas.microsoft.com/2003/10/Serialization</a>	417
6.5	User Identity Provider Service WSDL	417
6.5.1	IUserLogonProvider	417
6.5.1.1	wsdl1	417
6.5.1.2	wsdl2	419
6.5.1.3	<a href="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users">http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users</a>	420
6.5.1.4	<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	422
6.5.1.5	<a href="http://schemas.microsoft.com/2003/10/Serialization">http://schemas.microsoft.com/2003/10/Serialization</a>	422
6.5.1.6	<a href="http://schemas.datacontract.org/2004/07/System">http://schemas.datacontract.org/2004/07/System</a>	423
6.5.1.7	<a href="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010">http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010</a>	423
6.5.2	IUserChangePasswordProvider	424
6.5.2.1	wsdl	424
6.5.2.2	wsdl2	425

6.5.2.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.U	427
	sers .....	
6.5.2.4	http://schemas.microsoft.com/2003/10/Serialization .....	427
6.5.2.5	http://schemas.datacontract.org/2004/07/System .....	428
6.5.2.6	http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notific	
	ations/3/2010 .....	429
6.5.3	IUserInfoProvider .....	429
6.5.3.1	wsdl .....	429
6.5.3.2	wsdl2 .....	431
6.5.3.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.U	
	sers .....	432
6.5.3.4	http://schemas.microsoft.com/2003/10/Serialization/Arrays .....	433
6.5.3.5	http://schemas.microsoft.com/2003/10/Serialization .....	433
6.5.3.6	http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notific	
	ations/3/2010 .....	434
6.6	Provider Registry Service WSDL .....	435
6.6.1	IProviderRegistry .....	435
6.6.1.1	wsdl .....	435
6.6.1.2	http://tempuri.org .....	439
6.6.1.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.C	
	ommon.ProviderFramework.....	441
6.6.1.4	http://schemas.microsoft.com/2003/10/Serialization .....	442
6.6.1.5	http://schemas.datacontract.org/2004/07/System .....	443
6.6.1.6	http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Commo	
	n.ProviderFramework .....	443
6.6.2	INotificationProviderServiceAdminOnly .....	444
6.6.2.1	wsdl .....	444
6.6.2.2	wsdl2 .....	447
6.6.2.3	http://schemas.microsoft.com/2003/10/Serialization/Arrays .....	449
6.6.2.4	http://schemas.microsoft.com/2003/10/Serialization .....	449
6.6.2.5	http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notific	
	ations/3/2010 .....	450
6.7	Addin Management Service WSDL .....	451
6.7.1	wsdl .....	451
6.7.2	http://tempuri.org .....	460
6.7.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Addin	
	Infrastructure.....	463
6.7.4	http://schemas.microsoft.com/2003/10/Serialization/Arrays.....	465
6.7.5	http://schemas.microsoft.com/2003/10/Serialization .....	465
6.7.6	http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins .....	466
6.7.7	http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel .....	468
6.7.8	http://schemas.datacontract.org/2004/07/System .....	469
6.8	Network Service WSDL .....	469
6.8.1	wsdl .....	469
6.8.2	http://tempuri.org .....	472
6.8.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Netwo	
	rking .....	472



6.8.4	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess .....	473
6.8.5	http://schemas.microsoft.com/2003/10/Serialization/Arrays .....	473
6.8.6	http://schemas.microsoft.com/2003/10/Serialization .....	474
6.8.7	http://schemas.datacontract.org/2004/07/System.Net.Sockets .....	474
6.8.8	http://schemas.datacontract.org/2004/07/System.Net .....	478
6.9	Domain Infrastructure Service WSDL .....	479
6.9.1	wsdl .....	479
6.9.2	http://tempuri.org .....	486
6.9.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains .....	489
6.9.4	http://schemas.microsoft.com/2003/10/Serialization/Arrays .....	494
6.9.5	http://schemas.microsoft.com/2003/10/Serialization .....	494
6.9.6	http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel .....	495
6.9.7	http://schemas.datacontract.org/2004/07/System.Net.Sockets .....	495
6.9.8	http://schemas.datacontract.org/2004/07/System.Net .....	499
6.9.9	http://schemas.datacontract.org/2004/07/System .....	500
6.10	AzureAD and HostedEmail Integration Service WSDL .....	500
6.10.1	IPasswordSyncClientProvider .....	500
6.10.1.1	wsdl .....	500
6.10.1.2	http://tempuri.org .....	504
6.10.1.3	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.PasswordSync .....	505
6.10.1.4	http://schemas.microsoft.com/2003/10/Serialization .....	506
6.10.1.5	http://schemas.datacontract.org/2004/07/System .....	507
6.10.2	IO365ClientProvider .....	507
6.10.2.1	wsdl .....	507
6.10.2.2	http://tempuri.org .....	530
6.10.2.3	http://schemas.microsoft.com/2003/10/Serialization .....	541
6.10.2.4	http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel .....	542
6.10.2.5	http://schemas.datacontract.org/2004/07/System.Net.Sockets .....	546
6.10.2.6	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Integration .....	549
6.10.2.7	http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains .....	565
6.10.2.8	http://schemas.microsoft.com/2003/10/Serialization/Arrays .....	566
6.10.2.9	http://schemas.datacontract.org/2004/07/System.Net .....	567
6.10.2.10	http://schemas.datacontract.org/2004/07/System.ServiceModel.Security .....	567
6.10.2.11	http://schemas.datacontract.org/2004/07/System.ServiceModel .....	568
6.10.2.12	http://schemas.datacontract.org/2004/07/System .....	568
6.11	Client Notification Service WSDL .....	569
6.11.1	wsdl .....	569
6.11.2	http://tempuri.org .....	571
6.11.3	http://schemas.microsoft.com/2003/10/Serialization .....	572
6.11.4	http://schemas.datacontract.org/2004/07/System .....	573
<b>7</b>	<b>Appendix B: Product Behavior .....</b>	<b>575</b>
<b>8</b>	<b>Change Tracking .....</b>	<b>577</b>
<b>9</b>	<b>Index .....</b>	<b>578</b>

# 1 Introduction

The WCF-Based Encrypted Server Administration and Notification Protocol (Provider Framework) enables the protocol client to monitor and manage the protocol server in the same network.

This protocol is an extension to the .NET Message Framing TCP Binding Protocol [\[MS-NMFTB\]](#).

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

## 1.1 Glossary

This document uses the following terms:

**Active Directory:** The Windows implementation of a general-purpose directory service, which uses LDAP as its primary access protocol. **Active Directory** stores information about a variety of objects in the network such as user accounts, computer accounts, groups, and all related credential information used by Kerberos [\[MS-KILE\]](#). **Active Directory** is either deployed as Active Directory Domain Services (AD DS) or Active Directory Lightweight Directory Services (AD LDS), which are both described in [\[MS-ADOD\]](#): Active Directory Protocols Overview.

**Coordinated Universal Time (UTC):** A high-precision atomic time standard that approximately tracks Universal Time (UT). It is the basis for legal, civil time all over the Earth. Time zones around the world are expressed as positive and negative offsets from UTC. In this role, it is also referred to as Zulu time (Z) and Greenwich Mean Time (GMT). In these specifications, all references to UTC refer to the time at UTC-0 (or GMT).

**Domain Name System (DNS):** A hierarchical, distributed database that contains mappings of domain names to various types of data, such as IP addresses. DNS enables the location of computers and services by user-friendly names, and it also enables the discovery of other information stored in the database.

**fully qualified domain name (FQDN):** An unambiguous domain name that gives an absolute location in the **Domain Name System's (DNS)** hierarchy tree, as defined in [\[RFC1035\]](#) section 3.1 and [\[RFC2181\]](#) section 11.

**globally unique identifier (GUID):** A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [\[RFC4122\]](#) or [\[C706\]](#) must be used for generating the **GUID**. See also universally unique identifier (UUID).

**security identifier (SID):** An identifier for security principals that is used to identify an account or a group. Conceptually, the **SID** is composed of an account authority portion (typically a domain) and a smaller integer representing an identity relative to the account authority, termed the relative identifier (RID). The **SID** format is specified in [\[MS-DTYP\]](#) section 2.4.2; a string representation of **SIDs** is specified in [\[MS-DTYP\]](#) section 2.4.2 and [\[MS-AZOD\]](#) section 1.1.1.2.

**service (SRV) resource record:** A **Domain Name System (DNS)** resource record used to identify computers that host specific services, as specified in [\[RFC2782\]](#). SRV resource records are used to locate domain controllers (DCs) for **Active Directory**.

**SOAP:** A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and

other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

**SOAP message:** An XML document consisting of a mandatory SOAP envelope, an optional SOAP header, and a mandatory SOAP body. See [\[SOAP1.2-1/2007\]](#) section 5 for more information.

**Transmission Control Protocol (TCP):** A protocol used with the Internet Protocol (IP) to send data in the form of message units between computers over the Internet. TCP handles keeping track of the individual units of data (called packets) that a message is divided into for efficient routing through the Internet.

**Uniform Resource Identifier (URI):** A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [\[RFC3986\]](#).

**XML namespace:** A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [\[RFC3986\]](#). A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [\[XMLNS-2ED\]](#).

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## 1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information.

[IANAPORT] IANA, "Service Name and Transport Protocol Port Number Registry", <https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml>

[MS-KILE] Microsoft Corporation, "[Kerberos Protocol Extensions](#)".

[MS-NMFTB] Microsoft Corporation, "[.NET Message Framing TCP Binding Protocol](#)".

[MS-WSPOL] Microsoft Corporation, "[Web Services: Policy Assertions and WSDL Extensions](#)".

[RFC1518] Rekhter, Y., Watson, T.J., and Li, T., "An Architecture for IP Address Allocation with CIDR", RFC 1518, September 1993, <https://www.rfc-editor.org/info/rfc1518>

[RFC1519] Fuller, V., Li, T., Yu, J., and Varadhan, K., "Classless Inter-Domain Routing (CIDR): an Address Assignment and Aggregation Strategy", RFC 1519, September 1993, <https://www.rfc-editor.org/info/rfc1519>

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <https://www.rfc-editor.org/info/rfc2119>

[RFC2246] Dierks, T., and Allen, C., "The TLS Protocol Version 1.0", RFC 2246, January 1999, <https://www.rfc-editor.org/info/rfc2246>

[RFC4120] Neuman, C., Yu, T., Hartman, S., and Raeburn, K., "The Kerberos Network Authentication Service (V5)", RFC 4120, July 2005, <https://www.rfc-editor.org/rfc/rfc4120>

[SOAP1.2-1/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part1-20070427/>

[SOAP1.2-2/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 2: Adjuncts (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part2-20070427>

[WSADDSoapBind1.0] Gudgin, M., Hadley, M., and Rogers, T., Eds., "Web Services Addressing 1.0 - SOAP Binding", W3C Recommendation, May 2006, <http://www.w3.org/TR/2006/REC-ws-addr-soap-20060509/ws-addr-soap.pdf>

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <https://www.w3.org/TR/2001/NOTE-wsdl-20010315>

[XMLNS-2ED] Bray, T., Hollander, D., Layman, A., and Tobin, R., Eds., "Namespaces in XML 1.0 (Second Edition)", W3C Recommendation, August 2006, <https://www.w3.org/TR/2006/REC-xml-names-20060816/>

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <https://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <https://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

### 1.2.2 Informative References

[MSDN-GetLocMachCert] Microsoft Corporation, "MachineIdentityManager.GetLocalMachineCert method", <http://msdn.microsoft.com/library/microsoft.windows.serversolutions.devices.identity.machineidentitymanager.getlocalmachinecert.aspx>

[MSDN-NETTcpBE] Microsoft Corporation, "TcpTransportBindingElement Class", <http://msdn.microsoft.com/en-us/library/system.servicemodel.channels.tcptransportbindingelement.aspx>

[MSDN-ProviderException] Microsoft Corporation, "ProviderException Class", <http://msdn.microsoft.com/library/microsoft.windows.serversolutions.common.providerframework.providerexception>

[MSDN-WSSSDK] Microsoft Corporation, "Windows Server Solutions SDK", <http://msdn.microsoft.com/library/gg513877.aspx>

[MSKB-2975719] Microsoft Corporation, "August 2014 update rollup for Windows RT 8.1, Windows 8.1, and Windows Server 2012 R2", <http://support.microsoft.com/kb/2975719>

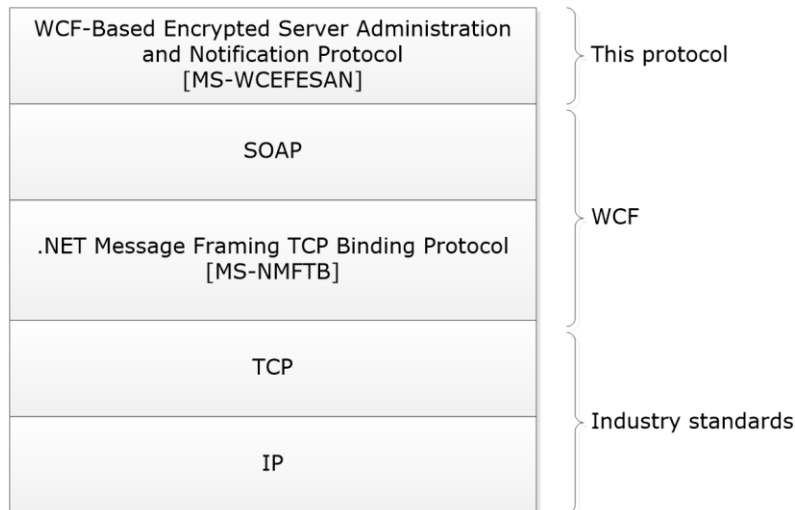
### 1.3 Overview

The WCF-Based Encrypted Server Administration and Notification Protocol (Provider Framework) defines a series of WCF services that provide basic monitoring and manageability functionalities of the protocol server. Network administrators can use the protocol to monitor and manage the protocol server. It is a classic duplex mode client-server protocol.

The WCF services defined by Provider Framework are described in section [3](#). The data contracts used by these services are described in section [2.2](#).

## 1.4 Relationship to Other Protocols

The Provider Framework protocol uses **SOAP messages** to format the requests and responses as specified in [\[SOAP1.2-1/2007\]](#) and [\[SOAP1.2-2/2007\]](#). These SOAP messages are encrypted by the TcpTransportBindingElement Class described in [\[MSDN-NETTcpBE\]](#) and sent over the .NET Message Framing TCP Binding Protocol [\[MS-NMFTB\]](#), which is built on top of the TCP/IP protocol.



**Figure 1: Protocol stack diagram**

## 1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes a set of WCF service methods that are known by protocol clients.

Provider Framework services needs to be deployed on the protocol server for this protocol to work correctly.

The protocol also assumes that the authentication has been performed by the underlying protocols.

## 1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported transports:** This protocol can be implemented on top of **TCP** as discussed in section [2.1](#).
- **Protocol versions:** This protocol is not versioned.
- **Capability negotiation:** This protocol does not support version negotiation.

## 1.8 Vendor-Extensible Fields

Vendor-extensible fields can extend the Provider Framework by writing their own WCF services. This is done by using the Provider Framework API, which is included in the Windows Server Solutions SDK [\[MSDN-WSSSDK\]](#), to create a provider.

## 1.9 Standards Assignments

The Provider Framework protocol uses the following assignment:

Parameter	TCP Port	Reference
wsscomfrmwk	6602(0x19CA)	<a href="#">[IANAPORT]</a>

## 2 Messages

### 2.1 Transport

This protocol transports messages using a TCP stream and specifies a framing for messages over a TCP stream. The protocol does not define a mechanism to establish the TCP connection; rather, an established TCP connection is a precondition for this protocol.

This protocol does not define any means for activating a protocol server or protocol client. The protocol server **MUST** be configured and begin listening in an implementation-specific way. Additionally, the protocol client **MUST** know the format and transport that is used by the protocol server, for example, the SOAP format over a TCP transport.

The protocol server **MUST** support formatting of **SOAP** over TCP/IP as specified in [\[MS-NMFTB\]](#).

All protocol messages **MUST** be transported by using **TCP** bindings at the transport level.

All protocol messages **MUST** be formatted as specified in [\[SOAP1.2-1/2007\]](#) or [\[SOAP1.2-2/2007\]](#).

The protocol **MUST** use Message Framing Security Provider WindowsTransportSecurity as specified in [\[MS-WSPOL\]](#) section 2.2.3.8 with the ProtectionLevel being EncryptAndSign.

### 2.2 Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses XML schema (XSD) as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and Web Services Description Language as defined in [\[WSDL\]](#).

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in this specification provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect protocol behavior. For example, the schema definition might allow for an element to be empty, null, or not present, but the behavior of the protocol as specified restricts the same elements to being non-empty, present, and not null.

#### 2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS-2ED\]](#). Although this specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
None	<a href="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010">http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010</a>	
xsd	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a> <a href="#">[XMLSCHEMA2]</a>
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.2-1/2007]</a> <a href="#">[SOAP1.2-2/2007]</a>
s	<a href="http://www.w3.org/2003/05/soap-envelope">http://www.w3.org/2003/05/soap-envelope</a>	<a href="#">[SOAP1.2-1/2007]</a>
a	<a href="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing</a>	<a href="#">[WSADDSoapBind1]</a>

Prefix	Namespace URI	Reference
		<a href="#">.01</a>

## 2.2.2 Messages

Message	Description
Common Soap Fault	The structure of the common SOAP fault that is returned by the protocol server to the protocol client when there is an error processing the request.
Keepalive	The structure of the Keepalive message sent by the management client to the management server to detect loss of the underlying transport connection.

### 2.2.2.1 Common SOAP Fault

The SOAP fault message is defined in [\[SOAP1.2-1/2007\]](#). The following is the specific format used by this protocol.

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <s:Fault>
      <s:Code>
        <s:Value>s:Sender</s:Value>
      </s:Code>
      <s:Reason>
        <s:Text xml:lang="en-US">The creator of this fault did not specify a Reason.</s:Text>
      </s:Reason>
      <s:Detail>
        [ProviderException]
      </s:Detail>
    </s:Fault>
  </s:Body>
</s:Envelope>
```

The [ProviderException] element is the part of the message that provides more information about the fault itself. This will be of type `Microsoft.WindowsServerSolutions.Common.ProviderFramework.ProviderException` [\[MSDN-ProviderException\]](#) or the types that extend the same.

### 2.2.2.2 Keepalive

Following is the **Keepalive** message that is transmitted by the protocol client in a period of inactivity and ignored by the server. This helps to detect the drop of the TCP session because of inactivity.

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">Microsoft.WindowsServerSolutions.Common.ProviderFramework.Keepalive</a:Action>
    </s:Header>
  <s:Body/>
</s:Envelope>
```



## 2.2.3 Elements

This specification does not define any common XML schema element definitions.

## 2.2.4 Complex Types

The following table summarizes the set of common XML schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

Complex Type	Description
ClientFileBackupException (section <a href="#">2.2.4.1.1</a> )	The errors in a client file backup provider.
ConfigurationSet (section <a href="#">2.2.4.1.2</a> )	The configuration settings for client file backups.
AutoExclusionSizesInfo (section <a href="#">2.2.4.2.1</a> )	Information about sizes of data automatically excluded from a backup.
PCBackupClientFault (section <a href="#">2.2.4.2.2</a> )	Information about an error occurring in the computer backup provider service.
PCBackupConfiguration (section <a href="#">2.2.4.2.3</a> )	The entire computer backup configuration as seen from management UI.
PCBackupServerFault (section <a href="#">2.2.4.2.4</a> )	Information about an error occurring in the computer backup server provider service.
PCBackupStatus (section <a href="#">2.2.4.2.5</a> )	The state of the current backup set operation.
BadFileInfo (section <a href="#">2.2.4.2.6</a> )	One file in the backup that contains a bad block.
ClientConfig (section <a href="#">2.2.4.2.7</a> )	All of the client configuration of a backup.
ClientConfigurationInfo (section <a href="#">2.2.4.2.8</a> )	The type of client configuration of a backup.
PCClientDataStatus	The status of backups for each client after repair.
ClientJobInfo (section <a href="#">2.2.4.2.9</a> )	Information about one machine-wide backup job.
ClientRepairStatus (section <a href="#">2.2.4.2.10</a> )	The status of backups for each client after repair.
ClientVolumeInfo (section <a href="#">2.2.4.2.11</a> )	Information for a one-client volume.
ConfigureBackupFault (section <a href="#">2.2.4.2.12</a> )	Information about an error occurring when configure backup for a client fails due to another configure backup being in progress.
ExcludedFolderInfo (section <a href="#">2.2.4.2.13</a> )	Information about one excluded folder.
FolderInfo (section <a href="#">2.2.4.2.14</a> )	Information about one folder.
FolderInfoGroup (section <a href="#">2.2.4.2.15</a> )	Information about a group of folders.
FolderRequest (section <a href="#">2.2.4.2.16</a> )	Data needed for Get Folder Children.
OperationStatusResponse (section <a href="#">2.2.4.2.17</a> )	The response of a Get Operation Status request.
ServiceStatusResponse (section <a href="#">2.2.4.2.18</a> )	The response of service status request.
VolumeJobInfo (section <a href="#">2.2.4.2.19</a> )	Information about a volume job.
WaitingOperation (section <a href="#">2.2.4.2.20</a> )	Information about a waiting operation.

Complex Type	Description
RepairResult (section <a href="#">2.2.4.2.21</a> )	Information about the result of a repair job.
AlertListChunk (section <a href="#">2.2.4.3.1</a> )	A portion of a list of alerts.
AlertInfo (section <a href="#">2.2.4.3.2</a> )	Information about a Network Health Alert.
UserContextTask (section <a href="#">2.2.4.3.3</a> )	Defines a task that is expected to be launched from a user context.
ClearCommand (section <a href="#">2.2.4.3.4</a> )	Clears an alert.
RaiseCommand (section <a href="#">2.2.4.3.5</a> )	Raises an alert.
SuppressCommand (section <a href="#">2.2.4.3.6</a> )	Suppresses an alert.
ReturnClass Type (section <a href="#">2.2.4.4.1</a> )	Describes the return class for the machine identity provider.
GetMachineStatusType (section <a href="#">2.2.4.4.2</a> )	The return of the get <b>security identifier (SID)</b> request.
PersonalInfo (section <a href="#">2.2.4.5.1</a> )	User personal information.
UserInfo (section <a href="#">2.2.4.5.2</a> )	Present information about a user.
UserFault (section <a href="#">2.2.4.5.3</a> )	Failure information for custom exceptions generated by a user identity provider call.
UserExceptionFault (section <a href="#">2.2.4.5.4</a> )	Failure information for errors generated by a user identity provider call.
ReturnClass (section <a href="#">2.2.4.5.5</a> )	Represents return codes for a user identity provider call
ProviderEndpointBehaviorAttribute (section <a href="#">2.2.4.6.1</a> )	An attribute used to decorate Provider contracts to specify their behavior.
ProviderInfo (section <a href="#">2.2.4.6.2</a> )	The information necessary to connect to a provider.
RequiredImpersonationLevelAttribute (section <a href="#">2.2.4.6.3</a> )	An attribute used to decorate Provider contracts to specify Impersonation Level.
PackageInfo (section <a href="#">2.2.4.7.1</a> )	The information about an add-in that is not contained in the normal metadata file.
ClientInstallFilter (section <a href="#">2.2.4.7.2</a> )	In which clients (if any) an add-in is installed.
Package (section <a href="#">2.2.4.7.3</a> )	Information used to describe and install an add-in package.
BinaryReference (section <a href="#">2.2.4.7.4</a> )	The information needed to install an MSI on a machine.
Filter (section <a href="#">2.2.4.7.5</a> )	Limits which computers a client add-in MSI will be installed to.
OtherBinariesMap (section <a href="#">2.2.4.7.6</a> )	The list of binaries for other client platforms.<1>
Preinstall (section <a href="#">2.2.4.7.7</a> )	The details of preinstall.
UninstallConfirm (section <a href="#">2.2.4.7.8</a> )	The details of UninstallCommand.
VPNSetting (section <a href="#">2.2.4.8.1</a> )	The information about an add-in that is not contained in the normal metadata file.
VirtualNetworkSettings (section <a href="#">2.2.4.8.2</a> )	The information about Azure Virtual Network settings
AddressPrefix (section <a href="#">2.2.4.8.3</a> )	An IP address range in Classless Inter-Domain Routing (CIDR) notion

Complex Type	Description
DomainProviderCredentials (section <a href="#">2.2.4.9.1</a> )	The credentials for a domain provider.
DomainManagerFault (section <a href="#">2.2.4.9.2</a> )	The fault generated by a domain manager.
DnsRecord (section <a href="#">2.2.4.9.3</a> )	A DNS record.
SrvRecord (section <a href="#">2.2.4.9.4</a> )	An SRV record in DNS.
ARRecord (section <a href="#">2.2.4.9.5</a> )	An A record in DNS.
MXRecord (section <a href="#">2.2.4.9.6</a> )	A mail service (MX) record in DNS.
TxtRecord (section <a href="#">2.2.4.9.7</a> )	A text record in DNS.
CNameRecord (section <a href="#">2.2.4.9.8</a> )	A canonical name record in DNS.
DomainState (section <a href="#">2.2.4.9.9</a> )	The status of the domain.
CertificateState (section <a href="#">2.2.4.9.10</a> )	The status of the certificate.
DomainNameConfiguration (section <a href="#">2.2.4.9.11</a> )	The currently active domain name configuration.
Offering (section <a href="#">2.2.4.9.12</a> )	The domain name offering.
DynamicDNSInfo (section <a href="#">2.2.4.9.13</a> )	The information of dynamic DNS.
DomainProviderManagerSettings (section <a href="#">2.2.4.9.14</a> )	The settings for Domain Manager operation.
O365ConfigurationException (section <a href="#">2.2.4.10.1</a> )	An error in Microsoft Office 365 integration configurations.
NotificationResult (section <a href="#">2.2.4.11.1</a> )	The client notification result.
NotificationResults (section <a href="#">2.2.4.11.2</a> )	The client notification results.

## 2.2.4.1 Client File Backup Provider

### 2.2.4.1.1 ClientFileBackupException

The **ClientFileBackupException** type describes errors in client file backup provider.

```
<xs:complexType name="ClientFileBackupException">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
      base="q1:Exception" />
    </xs:complexContent>
  </xs:complexType>
```

### 2.2.4.1.2 ConfigurationSet

The **ConfigurationSet** type describes the global file backup configuration settings.

```
<xs:complexType name="ConfigurationSet">
  <xs:sequence>
```

```

    <xs:element minOccurs="0" name="FrequencyInMinutes" type="xs:unsignedInt" />
    <xs:element minOccurs="0" name="IsEnabled" type="xs:boolean" />
    <xs:element minOccurs="0" name="RetentionInMonths" type="xs:unsignedInt" />
    <xs:element minOccurs="0" name="SourceLibraries" type="tns:SourceLibrary" />
    <xs:element minOccurs="0" name="TargetPath" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UnmanagedClients" nillable="true" type="xs:string"
  />
</xs:sequence>
</xs:complexType>

```

**FrequencyInMinutes:** The backup frequency in minutes.

**IsEnabled:** TRUE if the client file backup is enabled; otherwise, FALSE.

**RetentionInMonths:** The backup retention age in months.

**SourceLibraries:** The source libraries to back up.

**TargetPath:** The target folder's UNC path for the caller.

**UnmanagedClients:** The list of machine names of unmanaged clients, separated by the pipe (|) character.

## 2.2.4.2 Client Backup Provider

### 2.2.4.2.1 AutoExclusionSizesInfo

The **AutoExclusionSizesInfo** type describes information about sizes of data that are automatically excluded from a backup.

```

<xs:complexType name="AutoExclusionSizesInfo">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="ClientSideCache" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="TemporaryFiles" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="DigitalVideoRecorder" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="PageFile" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="RecycleBin" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="HibernationFile" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="MemoryDump" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="ShadowVolumes" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="Other" type="xs:long" />
  </xs:sequence>
</xs:complexType>

```

**ClientSideCache:** The size allocated for client side cache folders.

**TemporaryFiles:** The size allocated for user temporary files.

**DigitalVideoRecorder:** The size allocated for media center temporary files.

**PageFile:** The size allocated for the system page file.

**RecycleBin:** The size allocated for the recycle bin folder.

**HibernationFile:** The size allocated for the hibernation file.

**MemoryDump:** The size allocated for the memory dump file.

**ShadowVolumes:** The size allocated for shadow volume implementation folders.

**Other:** The size allocated for other automatic exclusions.

### 2.2.4.2.2 PCBackupClientFault

The **PCBackupClientFault** type contains information about an error that occurred in the computer backup client provider service.

```
<xs:complexType name="PCBackupClientFault">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Reason" type="PCBackupClientFaultReason"
  />
    <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="Other" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Reason:** The fault reason.

**Description:** The fault description.

**Other:** Any other information.

### 2.2.4.2.3 PCBackupConfiguration

The **PCBackupConfiguration** type contains all the computer backup configurations as seen from management UI.

```
<xs:complexType name="PCBackupConfiguration">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="windowStartTime" type="TimeSpan" />
    <xs:element minOccurs="1" maxOccurs="1" name="windowEndTime" type="TimeSpan" />
    <xs:element minOccurs="1" maxOccurs="1" name="dailyRetainCount" type="xs:unsignedInt"
  />
    <xs:element minOccurs="1" maxOccurs="1" name="weeklyRetainCount" type="xs:unsignedInt"
  />
    <xs:element minOccurs="1" maxOccurs="1" name="monthlyRetainCount" type="xs:unsignedInt"
  />
    <xs:element minOccurs="1" maxOccurs="1" name="yearlyRetainCount" type="xs:unsignedInt"
  />
    <xs:element minOccurs="1" maxOccurs="1" name="alertDiskBytes" type="xs:long" />
  </xs:sequence>
</xs:complexType>
```

**windowStartTime:** The backup window start time.

**windowEndTime:** The backup window end time.

**dailyRetainCount:** The daily backup retain count.

**weeklyRetainCount:** The weekly backup retain count.

**monthlyRetainCount:** The monthly backup retain count.

**yearlyRetainCount:** The yearly backup retain count.

**alertDiskBytes:** The alert disk bytes.

### 2.2.4.2.4 PCBackupServerFault

The **PCBackupServerFault** type contains information about an error that occurred in the computer backup server provider service.

```

<xs:complexType name="PCBackupServerFault">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Reason" type="PCBackupServerFaultReason" />
  />
  <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string" />
  <xs:element minOccurs="0" maxOccurs="1" name="Other" type="xs:string" />
</xs:sequence>
</xs:complexType>

```

**Reason:** The fault reason.

**Description:** The fault description.

**Other:** Any other information.

### 2.2.4.2.5 PCBackupStatus

The **PCBackupStatus** type describes the state of the current backup set operation.

```

<xs:complexType name="PCBackupStatus">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="clientJobStatus"
      type="ClientJobStatus" />
    <xs:element minOccurs="1" maxOccurs="1" name="progress" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="failureReason"
      type="AbortReason" />
    <xs:element minOccurs="1" maxOccurs="1" name="lastBackupTime"
      type="xs:dateTime" />
    <xs:element minOccurs="0" maxOccurs="1" name="IncompleteVolumeMountPoints"
      type="ArrayOfString" />
    <xs:element minOccurs="0" maxOccurs="1" name="IncompleteVolumeLabels"
      type="ArrayOfString" />
  </xs:sequence>
</xs:complexType>

```

**clientJobStatus:** The current job status.

**progress:** How far the backup has progressed in the current phase,  $0 \leq \text{progress} \leq 100$ .

**failureReason:** The reason for the most recent failure. Set only if backup status is Failed.

**lastBackupTime:** The last backup time.

**IncompleteVolumeMountPoints:** The mount points of volumes that are yet to be backed up in current backup, as well as volumes that were not backed up if the last backup failed or was incomplete.

**IncompleteVolumeLabels:** The labels of volumes that are yet to be backed up in the current backup, as well as volumes that were not backed up if the last backup failed or was incomplete.

### 2.2.4.2.6 BadFileInfo

The **BadFileInfo** type describes one file in the backup that contains a bad block.

```

<xs:complexType name="BadFileInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long" />
  </xs:sequence>
</xs:complexType>

```

**Name:** The name of the file.

**Size:** The size of the file.

#### 2.2.4.2.7 ClientConfig

The **ClientConfig** type contains all the client configuration of a backup.

```
<xs:complexType name="ClientConfig">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="IsConfigured" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="AnyVolumesIncluded" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="WindowStart" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="WindowEnd" type="xs:int" />
  </xs:sequence>
</xs:complexType>
```

**IsConfigured:** TRUE if the backup is enabled; otherwise, FALSE.

**AnyVolumesIncluded:** TRUE if any volumes eligible for backup are included; otherwise FALSE. If backup is not enabled or not configured, then the value of this variable is irrelevant.

**WindowStart:** The backup window start time, in number of minutes from midnight.

**WindowEnd:** The backup window end time, in number of minutes from midnight.

#### 2.2.4.2.8 ClientConfigurationInfo

The **ClientConfigurationInfo** type describes the type of client configuration of a backup.

```
<xs:complexType name="ClientConfigurationInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Sid" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsOnline" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsConfigured" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="AllVolumesConfigured" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="AnyVolumesIncluded" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="JobsExist" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="LastGoodBackupTime" type="xs:dateTime" />
    <xs:element minOccurs="1" maxOccurs="1" name="LastBackupEnabledTime" type="xs:dateTime" />
    <xs:element minOccurs="1" maxOccurs="1" name="LastStatus" type="ClientJobStatus" />
  </xs:sequence>
</xs:complexType>
```

The following members SHOULD be used only for reading the property. Each is marked as writable only so that it can support the infrastructure.

**Sid:** The client machine SID, used to uniquely identify the client.

**Name:** The client machine name.

**IsOnline:** TRUE if the machine is online; otherwise FALSE.

**IsConfigured:** TRUE if client is configured for backup; otherwise FALSE.

**AllVolumesConfigured:** TRUE if all volumes are configured for backup; otherwise FALSE.

**AnyVolumesIncluded:** TRUE if at least one volume is included for backup; otherwise FALSE.

**JobsExist:** TRUE if a backup exists for the client; otherwise false.

**LastGoodBackupTime:** The time of the last successfully completed backup.

**LastBackupEnabledTime:** When the client was last enabled for backups.

**LastStatus:** The last backup status.

#### 2.2.4.2.9 ClientJobInfo

The **ClientJobInfo** type describes one machine-wide backup job.

```
<xs:complexType name="ClientJobInfo">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Index" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="StartTime" type="xs:dateTime" />
    <xs:element minOccurs="1" maxOccurs="1" name="Duration" type="TimeSpan" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesUsed" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsAutomatic" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="Status" type="ClientJobStatus" />
    <xs:element minOccurs="1" maxOccurs="1" name="retentionState" type="RetentionState" />
    <xs:element minOccurs="1" maxOccurs="1" name="failureReason" type="AbortReason" />
    <xs:element minOccurs="0" maxOccurs="1" name="FailureDetails" type="ArrayOfString" />
  </xs:sequence>
</xs:complexType>
```

The following members SHOULD be used only for reading the property. Each is marked as writable only so that it can support the infrastructure.

**Index:** The backup job index.

**StartTime:** The backup start time.

**Duration:** The duration for which the backup ran.

**BytesUsed:** The bytes used on disk on the server for this backup.

**IsAutomatic:** TRUE if a scheduled backup; FALSE if manual.

**Description:** The backup job description.

**Status:** The backup job status.

**retentionState:** The retention state for the job, such as "marked for deletion", following the normal retention policy, or locked status.

**failureReason:** The failure reason for the job, or "none" if the job succeeded.

**FailureDetails:** The failure details for the job. Empty array or null if successful.

#### 2.2.4.2.10 ClientRepairStatus

The **ClientRepairStatus** type describes the status of backups for each client after repair.

```
<xs:complexType name="ClientRepairStatus">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Sid" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```



```

    <xs:element minOccurs="1" maxOccurs="1" name="DataStatus" type="PCClientDataStatus" />
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
  </xs:sequence>
</xs:complexType>

```

The following members SHOULD be used only for reading the property. Each is marked as writable only so that it can support the infrastructure.

**Sid:** The client SID, used to uniquely identify the client.

**DataStatus:** The status of backup for this client.

**Name:** The client name, used to identify a client to the user.

#### 2.2.4.2.11 ClientVolumeInfo

The **ClientVolumeInfo** type describes a one-client volume.

```

<?xml version="1.0" encoding="utf-8"?>
<xs:complexType name="ClientVolumeInfo">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="guid"
      xmlns:q1="http://microsoft.com/wsdl/types/" type="q1:guid" />
    <xs:element minOccurs="0" maxOccurs="1" name="uniqueIdBytes"
      type="ArrayOfUnsignedByte" />
    <xs:element minOccurs="0" maxOccurs="1" name="MountPoint" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="VolumeName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="Capacity" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesUsed" type="xs:long" />
    <xs:element minOccurs="0" maxOccurs="1" name="FileSystem" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesPerSector" type="xs:int"
      />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesPerCluster" type="xs:int"
      />
    <xs:element minOccurs="1" maxOccurs="1" name="Location" type="VolumeLocation"
      />
    <xs:element minOccurs="1" maxOccurs="1" name="BackupBytes" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="Status" type="VolumeStatus" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsEligibleForBackup"
      type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="JobsExist" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="ExcludedFolders"
      type="ArrayOfString" />
  </xs:sequence>
</xs:complexType>

```

The following members SHOULD be used only for reading the property. Each is marked as writable only so that it can support the infrastructure.

**guid:** The volume **GUID**.

**uniqueIdBytes:** The unique ID of the volume.

**MountPoint:** The volume mount point.

**VolumeName:** The name of the volume.

**Capacity:** The total capacity of the volume in bytes.

**BytesUsed:** The total number of bytes used on the volume.

**FileSystem:** The file system type of the volume.

**BytesPerSector:** The bytes per sector for the volume.

**BytesPerCluster:** The bytes per cluster for the volume.

**Location:** The volume location details, such as internal, external, and so on.

**BackupBytes:** The total number of bytes for backup on the volume.

**Status:** The volume status.

**IsEligibleForBackup:** TRUE if volume is eligible for backup; otherwise FALSE.

**JobsExist:** TRUE if any volume jobs exist for the volume; otherwise FALSE.

**ExcludedFolders:** A list of excluded folders.

#### 2.2.4.2.12 ConfigureBackupFault

The **ConfigureBackupFault** type contains information about an error that occurred when configure backup for a client failed due to another configure backup being in progress.

```
<xs:complexType name="ConfigureBackupFault">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Reason"
      type="ConfigureBackupFaultReason" />
    <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string"
      />
    <xs:element minOccurs="0" maxOccurs="1" name="Other" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Reason:** The fault reason.

**Description:** The fault description.

**Other:** Any other information, such as Exception Stack trace if needed for logging.

#### 2.2.4.2.13 ExcludedFolderInfo

The **ExcludedFolderInfo** type describes one excluded folder.

```
<xs:complexType name="ExcludedFolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsAutomatic" type="xs:boolean"
      />
  </xs:sequence>
</xs:complexType>
```

**Name:** The folder name.

**Size:** The folder size, excluding automatically excluded content.

**IsAutomatic:** TRUE, if and only if the folder is automatically excluded; otherwise FALSE.

#### 2.2.4.2.14 FolderInfo

The **FolderInfo** type describes one folder.

```

<xs:complexType name="FolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="FileRecordIndex" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="UsedBytes" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="ExclusionReason" type="ExclusionReason" />
  />
  <xs:element minOccurs="1" maxOccurs="1" name="IsFolder" type="xs:boolean" />
  <xs:element minOccurs="1" maxOccurs="1" name="HasChildren" type="xs:boolean" />
</xs:sequence>
</xs:complexType>

```

**Name:** The folder name.

**FileRecordIndex:** The file record index.

**UsedBytes:** The bytes used by this folder, including subfolders.

**ExclusionReason:** The exclusion reason.

**IsFolder:** TRUE only if the entry is a folder; otherwise FALSE.

**HasChildren:** TRUE, if this folder has children; otherwise, FALSE.

#### 2.2.4.2.15 FolderInfoGroup

The **FolderInfoGroup** type describes a group of folders.

```

<xs:complexType name="FolderInfoGroup">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="FolderInfoList" type="ArrayOfFolderInfo" />
  />
  <xs:element minOccurs="1" maxOccurs="1" name="TotalNumChildren" type="xs:int" />
</xs:sequence>
</xs:complexType>

```

**FolderInfoList:** The list of folder information objects in the group.

**TotalNumChildren:** The total number of children in the group.

#### 2.2.4.2.16 FolderRequest

The **FolderRequest** type describes the data needed for Get Folder Children.

```

<xs:complexType name="FolderRequest">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="volumeGuid"
      xmlns:q1="http://microsoft.com/wsdl/types/" type="q1:guid" />
    <xs:element minOccurs="1" maxOccurs="1" name="fileRecordIndex" type="xs:long" />
  </xs:sequence>
</xs:complexType>

```

**volumeGuid:** The GUID of the volume.

**fileRecordIndex:** The index of the file record.

#### 2.2.4.2.17 OperationStatusResponse

The **OperationStatusResponse** type contains the response of a Get Operation Status request.

```

<xs:complexType name="OperationStatusResponse">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Operation" type="PCBackupStatusOperation"
  />
    <xs:element minOccurs="0" maxOccurs="1" name="ClientSid" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="Machine" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="PercentDone" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="Phase" type="PCBackupVolumePhase" />
    <xs:element minOccurs="1" maxOccurs="1" name="RepairState" type="PCBackupRepairState"
  />
  </xs:sequence>
</xs:complexType>

```

**Operation:** The type of operation in progress.

**ClientSid:** The GUID of the client backing up or restoring, or Guid.Empty if none.

**Machine:** The name of the client backing up or restoring, or null if none.

**PercentDone:** The progress indicator of the current operation, from 0 to 100 percent.

**Phase:** The phase of the operation.

**RepairState:** The repair state of the operation.

#### 2.2.4.2.18 ServiceStatusResponse

The **ServiceStatusResponse** type contains the response of a service status request.

```

<xs:complexType name="ServiceStatusResponse">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Ready" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>

```

**Ready:** TRUE only if the service is ready for requests; otherwise FALSE.

#### 2.2.4.2.19 VolumeJobInfo

The **VolumeJobInfo** type contains information about a volume job.

```

<xs:complexType name="VolumeJobInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="volumeInfo" type="ClientVolumeInfo" />
    <xs:element minOccurs="0" maxOccurs="1" name="uniqueIdBytes" type="xs:base64Binary" />
    <xs:element minOccurs="0" maxOccurs="1" name="MountPoint" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="VolumeName" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="FileSystem" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesPerSector" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesPerCluster" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="StartTimeUtc" type="xs:dateTime" />
    <xs:element minOccurs="1" maxOccurs="1" name="Duration" type="TimeSpan" />
    <xs:element minOccurs="1" maxOccurs="1" name="InitialCapacity" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="MinimumCapacity" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="BytesUsed" type="xs:long" />
    <xs:element minOccurs="1" maxOccurs="1" name="Status" type="VolumeJobStatus" />
    <xs:element minOccurs="0" maxOccurs="1" name="autoExclusionSizes"
  type="ArrayOfExclusionSizesInfo" />
    <xs:element minOccurs="0" maxOccurs="1" name="ExcludedFolders"
  type="ArrayOfExcludedFolderInfo" />
    <xs:element minOccurs="0" maxOccurs="1" name="BadFiles" type="ArrayOfBadFileInfo" />
    <xs:element minOccurs="1" maxOccurs="1" name="failureReason" type="AbortReason" />
  </xs:sequence>
</xs:complexType>

```

```

        <xs:element minOccurs="0" maxOccurs="1" name="FailureDetails" type="ArrayOfString" />
    </xs:sequence>
</xs:complexType>

```

The following members SHOULD be used only for reading the property. Each is marked as writable so as to support the infrastructure.

**volumeInfo:** The volume details.

**uniqueIdBytes:** The unique ID of the volume at the time of backup.

**MountPoint:** The volume mount point at time of backup.

**VolumeName:** The volume name at time of backup.

**FileSystem:** The file system time at the time of backup.

**BytesPerSector:** The bytes per sector for the volume at the time of backup.

**BytesPerCluster:** The bytes per cluster for the volume at the time of backup.

**StartTimeUtc:** The **Coordinated Universal Time (UTC)** start time for the volume job.

**Duration:** The volume job duration.

**InitialCapacity:** The initial capacity of the volume during backup, in bytes.

**MinimumCapacity:** The minimum capacity of the volume required for restoring this volume backup.

**BytesUsed:** The bytes used for this volume job.

**Status:** The volume job status for the volume job.

**autoExclusionSizes:** The size of all auto-excluded folders.

**ExcludedFolders:** List of excluded folders.

**BadFiles:** Information about the file that contains a list of bad blocks on the volume.

**failureReason:** The failure reason for the volume job. If the job succeeded, this element SHOULD be set to "None".

**FailureDetails:** The failure details for the volume job. If the job succeeded, this element SHOULD be set to Null or an empty array.

#### 2.2.4.2.20 WaitingOperation

The **WaitingOperation** type contains information about a waiting operation.

```

<xs:complexType name="WaitingOperation">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Operation" type="PCBackupStatusOperation" />
  </xs:sequence>
  <xs:element minOccurs="0" maxOccurs="1" name="MachineSID" type="xs:string" />
  <xs:element minOccurs="0" maxOccurs="1" name="MachineName" type="xs:string" />
  <xs:element minOccurs="1" maxOccurs="1" name="PercentComplete" type="xs:int" />
</xs:complexType>

```

**Operation:** An indicator that the backup operation is queued.

**MachineSID:** The SID of the machine for which backup/restore is queued.

**MachineName:** The name of the machine for which backup/restore is queued.

**PercentComplete:** The progress indicator of the current operation, from 0 to 100 percent

#### 2.2.4.2.21 RepairResult

The **RepairResult** type contains information about the result of a repair job.

```
<xs:complexType name="RepairResult">
  <xs:sequence>
    <xs:element minOccurs="0" name="ClientStatus" nillable="true"
type="tns:ArrayOfClientRepairStatus" />
    <xs:element minOccurs="0" name="RepairStartTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="RepairState" type="tns:PCBackupRepairState" />
  </xs:sequence>
</xs:complexType>
```

**ClientStatus:** A list of client repair status values.

**RepairStartTime:** The start time of the repair job.

**RepairState:** The state of the repair job.

#### 2.2.4.3 Health Provider

##### 2.2.4.3.1 AlertListChunk

The **AlertListChunk** type describes a portion of a list of alerts.

```
<xs:complexType name="AlertListChunk">
  <xs:sequence>
    <xs:element minOccurs="0" name="Alerts" nillable="true"
xmlns:ql="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" type="ql:ArrayOfAlertInfo" />
    <xs:element minOccurs="0" name="HasMore" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**Alerts:** The alerts in this chunk.

**HasMore:** TRUE, if there are more alerts to be sent in another chunk; otherwise FALSE.

##### 2.2.4.3.2 AlertInfo

The **AlertInfo** type contains informational data about a Network Health Alert.

```
<xs:complexType name="AlertInfo">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="InstanceId" type="Guid" />
    <xs:element minOccurs="1" maxOccurs="1" name="MachineName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="MachineId" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="FeatureName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="HealthDefinitionName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="FeatureTitle" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="HealthDefinitionTitle" type="xs:string"
/>
    <xs:element minOccurs="1" maxOccurs="1" name="Description" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="Severity" type="HealthStatus" />
  </xs:sequence>
</xs:complexType>
```

```

    <xs:element minOccurs="1" maxOccurs="1" name="ActionPerformed" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsRepairDefined" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="RepairActionPerformed" type="xs:string"
  />
  <xs:element minOccurs="1" maxOccurs="1" name="DateAndTime" type="xs:dateTime" />
  <xs:element minOccurs="1" maxOccurs="1" name="IsSystem" type="xs:boolean" />
  <xs:element minOccurs="1" maxOccurs="1" name="TroubleshootSteps" type="xs:string" />
  <xs:element minOccurs="1" maxOccurs="1" name="SupportLink" type="xs:string" />
  <xs:element minOccurs="1" maxOccurs="1" name="Troubleshooter" type="UserContextTask" />
  <xs:element minOccurs="1" maxOccurs="1" name="IsNew" type="xs:boolean" />
  <xs:element minOccurs="1" maxOccurs="1" name="IsSuppressed" type="xs:boolean" />
  <xs:element minOccurs="1" maxOccurs="1" name="LastSuppressedDateTime"
type="xs:dateTime" />
  <xs:element minOccurs="1" maxOccurs="1" name="AdditionalInfo"
type="IEnumerable<string>" />
  <xs:element minOccurs="1" maxOccurs="1" name="Escalate" type="xs:boolean" />
</xs:sequence>
</xs:complexType>

```

**InstanceId:** The instance ID of the alert.

**MachineName:** The name of the machine on which the alert is raised.

**MachineId:** Typically the SID of the client computer.

**FeatureName:** The name of the feature definition to which the health definition belongs.

**HealthDefinitionName:** The name of the feature definition for which the alert is raised.

**FeatureTitle:** The title of the health definition for which the alert is raised.

**HealthDefinitionTitle:** The title of the feature definition to which the health definition belongs.

**Description:** A description of the alert.

**Severity:** The health status.

**ActionPerformed:** The health definition alert action performed when the alert is detected.

**IsRepairDefined:** TRUE, if the alert is repairable; otherwise, FALSE.

**RepairActionPerformed:** The information about the health definition repair action performed when the alert is repaired.

**DateAndTime:** The date and time when the alert was raised.

**IsSystem:** TRUE, if the alert is a system alert; otherwise, FALSE.

**TroubleshootSteps:** The troubleshooting steps of the alert.

**SupportLink:** The support link of the alert.

**Troubleshooter:** Allows the user to launch the task from the Alert Viewer.

**IsNew:** TRUE, if the alert being raised is not already present; otherwise, FALSE.

**IsSuppressed:** TRUE, if the alert is suppressed; otherwise, FALSE.

**LastSuppressedDateTime:** The last time the alert was suppressed.

**AdditionalInfo:** A store of additional information bound to the alert.

**Escalate:** TRUE, if the alert will be escalated to the administrator through email; otherwise, FALSE.

### 2.2.4.3.3 UserContextTask

The **UserContextTask** type defines a task that is expected to be launched from a user context.

```
<xs:complexType name="UserContextTask">
  <xs:sequence>
    <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Program" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Arguments:** The command line arguments to the program. These arguments can contain references to environment variables.

**Program:** The program path of the task. This path can contain references to environment variables.

**Title:** The title of the task.

### 2.2.4.3.4 ClearCommand

The **ClearCommand** type describes the command to clear an alert.

```
<xs:complexType name="ClearCommand">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="AlertInstanceId" type="Guid" />
    <xs:element minOccurs="1" maxOccurs="1" name="MachineId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="AlertDateAndTime" type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>
```

**AlertInstanceId:** The instance SID of the alert.

**MachineId:** The SID of the target machine.

**AlertDateAndTime:** The alert date and time.

### 2.2.4.3.5 RaiseCommand

The **RaiseCommand** type describes the command to raise an alert.

```
<xs:complexType name="RaiseCommand">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="RaisedAlert" type="AlertInfo" />
  </xs:sequence>
</xs:complexType>
```

**RaisedAlert:** The alert that needs to be raised.

### 2.2.4.3.6 SuppressCommand

The **SuppressCommand** type describes the command to suppress an alert.

```
<xs:complexType name="SecurityUpdateDetailProperty">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="AlertInstanceId" type="Guid" />
    <xs:element minOccurs="1" maxOccurs="1" name="MachineId" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="AlertDateAndTime" type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>
```



```

    <xs:element minOccurs="1" maxOccurs="1" name="Suppress" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="SuppressTime" type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>

```

**AlertInstanceId:** The instance SID of the alert.

**MachineId:** The SID of the target machine.

**AlertDateAndTime:** The alert date and time.

**Suppress:** TRUE, if the user wants to suppress an alert; otherwise, FALSE.

**SuppressTime:** The date and time when the alert was suppressed.

### 2.2.4.3.7 PlugInInfo

The **PlugInInfo** type describes the data structure that is used to get the summary of the installed plug-in.

```

<xs:complexType name="PlugInInfo">
  <xs:sequence>
    <xs:element name=" x003C ConfigHashCode x003E k BackingField" nillable="true"
      type="xs:base64Binary" />
    <xs:element name=" x003C DefinitionHashCode x003E k BackingField" nillable="true"
      type="xs:base64Binary" />
    <xs:element name="_x003C_FeatureName_x003E_k__BackingField" nillable="true"
      type="xs:string" />
    <xs:element name=" x003C RelativePath x003E k BackingField" nillable="true"
      type="xs:string" />
  </xs:sequence>
</xs:complexType>

```

**\_x003C\_ConfigHashCode\_x003E\_k\_\_BackingField:** A BASE64 binary that contains the hash of the definition configuration file.

**\_x003C\_DefinitionHashCode\_x003E\_k\_\_BackingField:** A BASE64 binary that contains the hash of the definition file.

**\_x003C\_FeatureName\_x003E\_k\_\_BackingField:** A string that contains the name of the feature.

**\_x003C\_RelativePath\_x003E\_k\_\_BackingField:** A string that contains the relative installed folder name under the feature definitions folder.

### 2.2.4.4 Machine Identity Provider

#### 2.2.4.4.1 ReturnClass Type

The **ReturnClass** type describes the return class for the Machine Identity Provider.

```

<xs:complexType name="ReturnClass">
  <xs:sequence>
    <xs:element minOccurs="0" name="ErrorCatalog" type="tns:ErrorCatalogType" />
    <xs:element minOccurs="0" name="NativeError" type="xs:int" />
  </xs:sequence>
</xs:complexType>

```

**ErrorCatalog:** The ErrorCatalogType value of an error, if one occurred.

**NativeError:** The native error code if an error happened.

#### 2.2.4.4.2 GetMachineStatusType

The **GetMachineStatusType** type contains the result of GetMachineStatus request.

```
<xs:complexType name="GetMachineStatusType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="MaxClientComputer" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="CurrentClientComputer" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="MachineStatus" type="MachineStatus" />
  </xs:sequence>
</xs:complexType>
```

**MaxClientComputer:** The maximum number of clients allowed.

**CurrentClientComputer:** The current number of clients.

**MachineStatus:** The return status for the specified client machine.

#### 2.2.4.5 User Identity Provider

##### 2.2.4.5.1 PersonalInfo

The **PersonalInfo** type describes user personal information.

```
<xs:complexType name="PersonalInfo">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="IsLocalUser" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="UserFolder" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="FirstName" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="LastName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="RemoteAccess" type="RemoteAccessType" />
    <xs:element minOccurs="1" maxOccurs="1" name="VpnAccess" type="RemoteAccessType" />
    <xs:element minOccurs="1" maxOccurs="1" name="AccessLevel" type="AccessLevelType" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsBuiltIn" type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1" name="IsShowInUI" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**IsLocalUser:** TRUE, if this is the local user; otherwise, FALSE.

**UserFolder:** The path of the shared folder belonging to this user.

**FirstName:** The first name of the user.

**LastName:** The last name of the user.

**RemoteAccess:** The remote access status of the user.

**VpnAccess:** The VPN access status of the user.

**AccessLevel:** The access level of the user.

**IsBuiltIn:** TRUE, if the user is built-in; otherwise, FALSE.

**IsShowInUI:** TRUE, if user will be shown in the UI; otherwise, FALSE.

##### 2.2.4.5.2 UserInfo

The **UserInfo** type presents the information of a user.

```
<xs:complexType name="UserInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="UserName" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="PersonalInfo" type="PersonalInfo" />
    <xs:element minOccurs="1" maxOccurs="1" name="UserStatus" type="UserStatus" />
    <xs:element minOccurs="1" maxOccurs="1" name="Warning" type="UserCustomExceptionCode" />
  />
  <xs:element minOccurs="0" maxOccurs="1" name="WindowsSID" type="xs:string" />
  <xs:element minOccurs="0" maxOccurs="1" name="WindowsAccount" type="xs:string" />
  <xs:element minOccurs="0" maxOccurs="1" name="FullName" type="xs:string" />
</xs:sequence>
</xs:complexType>
```

**UserName:** The name of the user.

**PersonalInfo:** The detailed personal information of the given user.

**UserStatus:** The status of the user.

**Warning:** The last error of import/update/add user.

**WindowsSID:** The SID of this user. [<2>](#)

**WindowsAccount:** The account of this user. [<3>](#)

**FullName:** The domain/server name of the user.

#### 2.2.4.5.3 UserFault

The **UserFault** type contains failure information from a custom user identity provider call.

```
<xs:complexType name="UserFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="ExceptionCode" type="xs:int" />
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UserCode" type="tns:UserCustomExceptionCode" />
  </xs:sequence>
</xs:complexType>
```

**ExceptionCode:** The custom exception code.

**Message:** The custom error message.

**UserCode:** The user custom exception code.

#### 2.2.4.5.4 UserExceptionFault

The **UserExceptionFault** type contains information about exceptions raised by a custom user identity provider call.

```
<xs:complexType name="UserExceptionFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="ErrorCode" type="xs:int" />
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UserErrorCode" type="tns:UserCustomExceptionCode" />
  </xs:sequence>
</xs:complexType>
```

**ErrorCode:** The custom error code.

**Message:** The custom error message.

**UserErrorCode:** The user custom exception code.

### 2.2.4.5.5 ReturnClass

The **ReturnClass** type represents return codes for a custom user identity provider call.

```
<xs:complexType name="ReturnClass">
  <xs:sequence>
    <xs:element minOccurs="0" name="NativeError" type="xs:int" />
    <xs:element minOccurs="0" name="UserCode" type="tns:UserCustomExceptionCode" />
  </xs:sequence>
</xs:complexType>
```

**NativeError:** The native error code.

**UserCode:** The user custom exception code.

### 2.2.4.6 Provider Registry Service

#### 2.2.4.6.1 ProviderEndpointBehaviorAttribute

The **ProviderEndpointBehaviorAttribute** type describes the attribute to use to decorate Provider contracts to specify their behavior.

```
<xs:complexType name="ProviderEndpointBehaviorAttribute">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="EndpointCredentialType"
type="CredentialType" />
    <xs:element minOccurs="0" maxOccurs="1" name="AllowedConnectionType"
type="ConnectionSetting" />
  </xs:sequence>
</xs:complexType>
```

**EndpointCredentialType:** The credential type expected by a provider.

**AllowedConnectionType:** The connection setting used or expected by a provider.

#### 2.2.4.6.2 ProviderInfo

The **ProviderInfo** type represents the information necessary to connect to a provider.

```
<xs:complexType name="ProviderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="Address" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="Binding" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Connected" type="xs:boolean" />
    <xs:element minOccurs="0" name="Contract" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Host" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Identifier" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IsInProc" type="xs:boolean" />
    <xs:element minOccurs="0" name="ProviderEndpointBehavior" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.Pro
viderFramework" type="q1:ProviderEndpointBehaviorAttribute" />
    <xs:element minOccurs="0" name="RequiredImpersonationLevel" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.Pro
viderFramework" type="q2:RequiredImpersonationLevelAttribute" />
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>
</xs:complexType>
```

**Address:** The **URI** of the provider.

**Binding:** The binding type to use for the provider.

**Connected:** TRUE, if the provider is currently connected; otherwise, FALSE.

**Contract:** The name of the contract of the provider, as a string.

**Host:** The host of this provider.

**Identifier:** The identifier of the provider. The identifier is used to differentiate between multiple providers that expose the same contract.

**IsInProc:** True if the provider is in-process loadable; otherwise, false.

**ProviderEndpointBehavior:** The endpoint behavior of the provider.

**RequiredImpersonationLevel:** The required client's impersonation level needed by the provider.

### 2.2.4.6.3 RequiredImpersonationLevelAttribute

The **RequiredImpersonationLevelAttribute** type describes the attribute to use to decorate provider contracts to specify the Impersonation Level.

```
<xs:complexType name="RequiredImpersonationLevelAttribute">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Level" type="ImpersonationLevel" />
  </xs:sequence>
</xs:complexType>
```

**Level:** The impersonation level expected by the provider.

### 2.2.4.6.4 QuerySpecification

The **QuerySpecification** type describes the details of providers to query for.

```
<xs:complexType name="QuerySpecification">
  <xs:sequence>
    <xs:element minOccurs="0" name="Contract" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ProviderId" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Server" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**Contract:** A string that contains the contract to query.

**ProviderId:** A string that contains the ID of the provider.

**Server:** A Boolean where TRUE indicates that the provider is for a server; otherwise, this value is FALSE.

## 2.2.4.7 Addin Management

### 2.2.4.7.1 PackageInfo

The **PackageInfo** type describes the information about an add-in that is not contained in the typical metadata file.

```
<xs:complexType name="PackageInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="Company" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ExpirationDateUtc" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Filter" nillable="true"
type="tns:ClientInstallFilter" />
    <xs:element minOccurs="0" name="Install" type="xs:boolean" />
    <xs:element minOccurs="0" name="InstallDateUtc" type="xs:dateTime" />
    <xs:element minOccurs="0" name="LastRedeployDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Package" nillable="true" type="tns:Package" />
    <xs:element minOccurs="0" name="RenewalUri" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="UpdateType" type="tns:UpdateClassification" />
    <xs:element minOccurs="0" name="UpdateUri" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="UpdateVersion" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/System" type="q1:Version" />
    <xs:element minOccurs="0" name="VersionOnServer" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/System" type="q2:Version" />
  </xs:sequence>
</xs:complexType>
```

**Company:** The company that the add-in package is for. This is set only for add-ins that have a verified digital signature.

**ExpirationDateUtc:** The date on which the add-in package subscription will expire. DateTime.MinValue means that there is no expiration date.

**Filter:** Determines which clients (if any) to install the add-in to.

**Install:** TRUE, if the add-in is meant to be installed; otherwise, FALSE.

**InstallDateUtc:** The time the add-in was first installed.

**LastRedeployDate:** The date of the last redeployment or of the initial install if there was not a redeploy.

**Package:** The actual add-in metadata.

**RenewalUri:** The address to show for renewing the add-in.

**UpdateType:** The type of update.

**UpdateUri:** The Uri of the latest update.

**UpdateVersion:** The version of the latest update.

**VersionOnServer:** The version of the package that is currently installed on the server. Used to prevent clients from installing/upgrading before the server has installed the package.

#### 2.2.4.7.2 ClientInstallFilter

The **ClientInstallFilter** type indicates in which clients (if any) an add-in is installed.

```
<xs:complexType name="ClientInstallFilter">
  <xs:sequence>
    <xs:element minOccurs="0" name="clientSidList" nillable="true"
xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q3:ArrayOfstring" />
    <xs:element minOccurs="0" name="listIsMachinesToInclude" type="xs:boolean" />
  </xs:sequence>
```

```
</xs:complexType>
```

**clientSidList:** The list of client machine SIDs, will always be sorted.

**listIsMachinesToInclude:** TRUE, if the list is of machines to be included; otherwise, FALSE.

### 2.2.4.7.3 Package

The **Package** type contains information used to describe and install an add-in package.

```
<xs:complexType name="Package">
  <xs:sequence>
    <xs:element name="Id" type="ser:guid" />
    <xs:element name="Version" nillable="true" type="xs:string" />
    <xs:element name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Allow32BitOn64BitClients" type="xs:boolean" />
    <xs:element minOccurs="0" name="ServerBinary" nillable="true"
type="tns:BinaryCollection" />
    <xs:element minOccurs="0" name="ClientBinary32" nillable="true"
type="tns:BinaryCollection" />
    <xs:element minOccurs="0" name="ClientBinary64" nillable="true"
type="tns:BinaryCollection" />
    <xs:element minOccurs="0" name="SupportedSkus" nillable="true"
type="tns:SkuCollection" />
    <xs:element minOccurs="0" name="SupportUrl" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="Location" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="PrivacyStatement" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="OtherBinaries" nillable="true"
type="tns:OtherBinariesMap" />
    <xs:element minOccurs="0" name="Preinstall" nillable="true" type="tns:Preinstall" />
    <xs:element minOccurs="0" name="UninstallConfirm" nillable="true"
type="tns:UninstallConfirm" />
  </xs:sequence>
</xs:complexType>
```

**Id:** The ID for the package.

**Version:** The version of the add-in package.

**Name:** The name of the package.

**Allow32BitOn64BitClients:** TRUE, if 64-bit clients fall back to the 32-bit binaries when no 64-bit binaries can be found; otherwise, FALSE.

**ServerBinary:** The binaries to install on the server.

**ClientBinary32:** The binary to install on 32-bit clients.

**ClientBinary64:** The binary to install on 64-bit clients.

**SupportedSkus:** A list of operating systems that are supported by this package.

**SupportUrl:** The support URL for add-in.

**Location:** Indicates whether the add-in integrates with an online service or mainly has functionality local to the server.

**PrivacyStatement:** A link to the privacy statement for the add-in.

**OtherBinaries:** Other client binaries. [<4>](#)

**Preinstall:** The specified preinstall command.

**UninstallConfirm:** The specified uninstall command to override the default action.

#### 2.2.4.7.4 BinaryReference

The **BinaryReference** type encapsulates the information needed to install an MSI on a machine.

```
<xs:complexType name="BinaryReference">
  <xs:sequence>
    <xs:element name="ProductCode" type="ser:guid" />
    <xs:element name="Version" nillable="true" type="xs:string" />
    <xs:element name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Filter" nillable="true" type="tns:Filter" />
  </xs:sequence>
</xs:complexType>
```

**ProductCode:** The product code for the MSI to be installed.

**Version:** The version of the MSI to be installed.

**Name:** The name of the file to be installed.

**Arguments:** Any parameters that will be used to install the MSI.

**Filter:** The filter used to determine whether the binary applies to a given computer.

#### 2.2.4.7.5 Filter

The Filter type limits which client computers the add-in MSI can be installed on.

```
<xs:complexType name="Filter">
  <xs:sequence>
    <xs:element minOccurs="0" name="MinOSVersion" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="MaxOSVersion" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="OSEdition"
xmlns:ql="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInfra
structure" type="ql:OSEditions" />
    <xs:element minOccurs="0" name="Language" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IsLanguageFallback" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**MinOSVersion:** The minimum OS version supported (inclusive).

**MaxOSVersion:** The maximum OS version supported (inclusive).

**OSEdition:** The supported OS editions.

**Language:** The supported OS languages.

**IsLanguageFallback:** TRUE, if this binary is to be used as the language fallback when the client OS language is not used as the language fallback; otherwise, false.

#### 2.2.4.7.6 OtherBinariesMap

The **OtherBinariesMap** type describes the list of binaries for other client platforms. [<5>](#)

```
<xs:complexType name="OtherBinariesMap">
  <xs:annotation>
    <xs:appinfo>
```



```

    <IsDictionary
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsDictionary>
  </xs:appinfo>
</xs:annotation>
<xs:sequence>
  <xs:element minOccurs="0" maxOccurs="unbounded" name="Item">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Target" nillable="true" type="xs:string" />
        <xs:element name="FileName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

**Target:** The key of the map.

**FileName:** The value of the map.

### 2.2.4.7.7 Preinstall

The **Preinstall** type describes the details of preinstall.

```

<xs:complexType name="Preinstall">
  <xs:sequence>
    <xs:element name="Executable" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="NormalArgs" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="SilentArgs" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IgnoreExitCode" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>

```

**Executable:** The file name of executable; the path is relative inside the package.

**NormalArgs:** An argument for normal option.

**SilentArgs:** An argument for silent option.

**IgnoreExitCode:** Whether to ignore the exit code.

### 2.2.4.7.8 UninstallConfirm

The **UninstallConfirm** type describes the details of UninstallCommand.

```

<xs:complexType name="UninstallConfirm">
  <xs:sequence>
    <xs:element name="Executable" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>

```

**Executable:** The file name of the executable.

**Arguments:** The arguments of the executable.

## 2.2.4.8 Network Service

### 2.2.4.8.1 VPNSetting

The **VPNSetting** type describes the information about an add-in that is not contained in the normal metadata file.

```
<xs:complexType name="VPNSetting">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConnectionName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="InternetAddress" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IntranetDnsSuffix" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**ConnectionName:** The name for the VPN connection (that is, both the phone-book entry name and the PPP adapter name).

**InternetAddress:** The connect-to address for the VPN connection. It can be either a public IP address or a **fully qualified domain name (FQDN)** that can be resolved on the Internet. VPN clients use this address to dial-up the VPN server.

**IntranetDnsSuffix:** The common suffix of the FQDNs of the computers on the private network, which will be set as the connection-specific DNS suffix of the PPP adapter on VPN clients. With these settings, nondomain-joined clients are able to resolve FQDNs of the computers on the private network.

### 2.2.4.8.2 VirtualNetworkSettings

The **VirtualNetworkSettings** type SHOULD [<6>](#) describe the Azure Virtual Network settings .

```
<xs:complexType name="VirtualNetworkSettings">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Enabled" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="VpnDeviceName" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="VirtualNetworkAddressPrefixes"
nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Networking
" type="q1:ArrayOfAddressPrefix " />
  </xs:sequence>
</xs:complexType>
```

**Enabled:** TRUE if the Azure Virtual Network integration is enabled; otherwise, FALSE.

**VpnDeviceName:** The name of the local VPN device.

**VirtualNetworkAddressPrefixes:** The IP address ranges assigned to the Azure Virtual Network resources in Classless Inter-Domain Routing (CIDR) notation.

### 2.2.4.8.3 AddressPrefix

The **AddressPrefix** type SHOULD [<7>](#) describe an IP address range in Classless Inter-Domain Routing (CIDR) notation. For more information about Classless Inter-Domain Routing (CIDR), see [\[RFC1518\]](#) and [\[RFC1519\]](#).

```
<xs:complexType name="AddressPrefix">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Address" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/System.Net" type="q2:IPAddress"/>
    <xs:element minOccurs="1" maxOccurs="1" name="PrefixLength" type="xs:int" />
  </xs:sequence>
</xs:complexType>
```

**Address:** The IP address of the Classless Inter-Domain Routing (CIDR) block.

**PrefixLength:** The prefix length of the Classless Inter-Domain Routing (CIDR) block.

#### 2.2.4.8.4 IPAddress

The **IPAddress** type specifies an IP address independent of the address family.

```
<xs:complexType name="IPAddress">
  <xs:sequence>
    <xs:element name="m_Address" type="xs:long" />
    <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net.Sockets" name="m_Family"
type="q1:AddressFamily" />
    <xs:element name="m_HashCode" type="xs:int" />
    <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="m_Numbers" nillable="true" type="q2:ArrayOfunsignedShort" />
    <xs:element name="m_ScopeId" type="xs:long" />
  </xs:sequence>
</xs:complexType>
```

**m\_Address:** A long integer that represents an IPv4 address if the address family is InterNetwork; otherwise, it is 0.

**m\_Family:** An **AddressFamily** (section [2.2.5.8.1](#)) simple type containing the address family of the address. The supported values for this are InterNetwork and InterNetworkV6.

**m\_HashCode:** This is a reserved element and MUST be ignored.

**m\_Numbers:** An array of unsigned short integers that represent the bytes of the IP address.

**m\_ScopeId:** A long integer that represents the scope identifier of the address, if the address family is InterNetworkV6; otherwise, it MUST be ignored.

#### 2.2.4.9 Domain Infrastructure Service

##### 2.2.4.9.1 DomainProviderCredentials

The **DomainProviderCredentials** type carries credentials for the domain provider.

```
<xs:complexType name="DomainProviderCredentials">
  <xs:sequence>
    <xs:element minOccurs="0" name="Password" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Password:** The password for the credential.

**UserName:** The user name for the credential.

##### 2.2.4.9.2 DomainManagerFault

The **DomainManagerFault** type describes the fault generated by the domain manager.

```
<xs:complexType name="DomainManagerFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="Detail" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

```
    <xs:element minOccurs="0" name="Reason" type="tns:FailureReason" />
  </xs:sequence>
</xs:complexType>
```

**Detail:** The details about this fault.

**Message:** A message about this fault.

**Reason:** The reason for this fault.

### 2.2.4.9.3 DnsRecord

The **DnsRecord** type describes a DNS record.

```
<xs:complexType name="DnsRecord">
  <xs:sequence>
    <xs:element minOccurs="0" name="Label" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="TimeToLive" type="ser:duration" />
  </xs:sequence>
</xs:complexType>
```

**Label:** The label of the record.

**TimeToLive:** The time span within which the record is effective.

### 2.2.4.9.4 SrvRecord

The **SrvRecord** type describes a **service (SRV) resource record** in **DNS**.

```
<xs:complexType name="SrvRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Port" type="xs:int" />
        <xs:element minOccurs="0" name="Priority" type="xs:int" />
        <xs:element minOccurs="0" name="Protocol" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Service" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Target" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Weight" type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**Port:** The port number of the service.

**Priority:** The priority of the target host. Lower values indicate greater priority.

**Protocol:** The transport protocol.

**Service:** The symbolic name of the desired service.

**Target:** The canonical name of the host providing the service.

**Weight:** A weighting factor for records with the same priority value.

### 2.2.4.9.5 ARecord

The **ARecord** type describes an A record in **DNS**.

```

<xs:complexType name="ARecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Address" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net" type="q1:IPAddress" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**Address:** The address of the DNS record.

#### 2.2.4.9.6 MXRecord

The **MXRecord** type describes a mail service (MX) record in **DNS**.

```

<xs:complexType name="MXRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="MailExchange" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="MailExchangePreference" type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**MailExchange:** The name or address of the mail Exchange server.

**MailExchangePreference:** The preference for mail Exchange server.

#### 2.2.4.9.7 TxtRecord

The **TxtRecord** type describes a text record in **DNS**.

```

<xs:complexType name="TxtRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

**Text:** The text for the record.

#### 2.2.4.9.8 CNameRecord

The **CNameRecord** type describes a canonical name record in **DNS**.

```

<xs:complexType name="CNameRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="CanonicalName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```
</xs:complexType>
```

**CanonicalName:** The canonical name for the record.

#### 2.2.4.9.9 DomainState

The **DomainState** type describes the status of the domain.

```
<xs:complexType name="DomainState">
  <xs:sequence>
    <xs:element minOccurs="0" name="ExpirationDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Status" type="tns:DomainStatus" />
    <xs:element minOccurs="0" name="StatusDescription" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**ExpirationDate:** The expiration date.

**Status:** The domain status.

**StatusDescription:** The description for domain status.

#### 2.2.4.9.10 CertificateState

The **CertificateState** type describes the status of the certificate.

```
<xs:complexType name="CertificateState">
  <xs:sequence>
    <xs:element minOccurs="0" name="Status" type="tns:CertificateStatus" />
    <xs:element minOccurs="0" name="StatusDescription" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**Status:** The certificate status.

**StatusDescription:** The description of the certificate status.

#### 2.2.4.9.11 DomainNameConfiguration

The **DomainNameConfiguration** type represents the currently active domain name configuration.

```
<xs:complexType name="DomainNameConfiguration">
  <xs:sequence>
    <xs:element minOccurs="0" name="AccountName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="CertificateRenewInProgress" type="xs:boolean" />
    <xs:element minOccurs="0" name="CertificateRenewStatus" type="tns:CertificateStatus" />
    <xs:element minOccurs="0" name="CertificateStatus" type="tns:CertificateStatus" />
    <xs:element minOccurs="0" name="CertificateStatusDescription" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="AutoConfiguredAnywhereAccessHostName" type="tns:Idn" />
    <xs:element minOccurs="0" name="AutoConfiguredInternetDomainFullName" type="tns:Idn" />
    <xs:element minOccurs="0" name="DomainPrefix" type="tns:Idn" />
    <xs:element minOccurs="0" name="DomainStatus" type="tns:DomainStatus" />
    <xs:element minOccurs="0" name="DomainStatusDescription" nillable="true" type="xs:string"
/>
    <xs:element minOccurs="0" name="ExpirationDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="ManualModeEnabled" type="xs:boolean" />
    <xs:element minOccurs="0" name="Offering" nillable="true" type="tns:Offering" />
    <xs:element minOccurs="0" name="ProviderID" type="ser:guid" />
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>
</xs:complexType>
```

**AccountName:** The account name used by the user to configure this offering.

**CertificateRenewInProgress:** TRUE, if a certificate renew is in progress; otherwise, FALSE.

**CertificateRenewStatus:** The status of the certificate renew task.

**CertificateStatus:** The certificate status.

**CertificateStatusDescription:** The description of the certificate status.

**AutoConfiguredAnywhereAccessHostName:** If the domain was automatically configured, this element contains the relative domain name of a host address, which can then be used to access the server from other network locations.

**AutoConfiguredInternetDomainFullName:** If the domain was automatically configured, this element contains the absolute domain name of the forward-lookup domain zone on the Internet.

**DomainPrefix:** The domain name prefix.

**DomainStatus:** The domain status.

**DomainStatusDescription:** The description for the domain status.

**ExpirationDate:** The expiration date.

**ManualModeEnabled:** TRUE, if manual mode is enabled; otherwise, FALSE.

**Offering:** The domain offering.

**ProviderID:** The provider ID.

### 2.2.4.9.12 Offering

The **Offering** type describes the domain name offering.

```
<xs:complexType name="Offering">
  <xs:sequence>
    <xs:element minOccurs="0" name="AccountManagementUrl" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="AdditionalSites" nillable="true"
      xmlns:q2="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
      type="q2:ReadOnlyCollectionOfanyURI" />
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="EulaUrl" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="Icon" nillable="true" type="xs:base64Binary" />
    <xs:element minOccurs="0" name="MembershipServiceName" nillable="true" type="xs:string"
  />
    <xs:element minOccurs="0" name="MembershipServiceSignupUrl" nillable="true"
      type="xs:anyURI" />
    <xs:element minOccurs="0" name="MoreInfoUrl" nillable="true" type="xs:anyURI" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ProviderID" type="ser:guid" />
    <xs:element minOccurs="0" name="SupportedDomainType" type="tns:DomainType" />
    <xs:element minOccurs="0" name="TroubleshootingUrl" nillable="true" type="xs:anyURI" />
  </xs:sequence>
</xs:complexType>
```

**AccountManagementUrl:** The account management URL.

**AdditionalSites:** A collection of additional sites.

**Description:** The description of the offering.

**EulaUrl:** The URL pointing to the EULA of the offering.

**Icon:** The icon of the offering.

**MembershipServiceName:** The membership service name.

**MembershipServiceSignupUrl:** The membership service signup URL.

**MoreInfoUrl:** The URL pointing to more information for the offering.

**Name:** The name of the offering.

**ProviderID:** The provider ID.

**SupportedDomainType:** A description of the supported domain type.

**TroubleshootingUrl:** A URL pointing to a troubleshooting webpage.

#### 2.2.4.9.13 DynamicDNSInfo

The **DynamicDNSInfo** type describes the information of dynamic DNS.

```
<xs:complexType name="DynamicDNSInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="FailedDNSUpdateAttempts" type="xs:int" />
    <xs:element minOccurs="0" name="LastSuccessfulDNSUpdate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="LastUpdatedIPAddress" nillable="true"
      xmlns:q3="http://schemas.datacontract.org/2004/07/System.Net" type="q3:IPAddress" />
  </xs:sequence>
</xs:complexType>
```

**FailedDNSUpdateAttempts:** Retrieves the number of unsuccessful DNS update attempts since the last successful update.

**LastSuccessfulDNSUpdate:** The time of the most recent successful DNS update.

**LastUpdatedIPAddress:** The most recently updated IP address by the dynamic DNS.

#### 2.2.4.9.14 DomainProviderManagerSettings

The **DomainProviderManagerSettings** type describes settings for Domain Manager operation. At run-time, these settings are read-only. Administrators and/or tools can change these settings in the registry if needed.

```
<xs:complexType name="DomainProviderManagerSettings">
  <xs:sequence>
    <xs:element minOccurs="0" name="BypassProxyForLocalAddresses" type="xs:boolean" />
    <xs:element minOccurs="0" name="DNSUpdateInterval" type="ser:duration" />
    <xs:element minOccurs="0" name="DomainStatusQueryInterval" type="ser:duration" />
    <xs:element minOccurs="0" name="Environment" type="tns:DomainProviderEnvironment" />
    <xs:element minOccurs="0" name="Proxy" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
```

**BypassProxyForLocalAddresses:** TRUE, if the proxy for local addresses is bypassed; otherwise, FALSE.



**DNSUpdateInterval:** The DNS update interval.

**DomainStatusQueryInterval:** The domain status query interval.

**Environment:** The environment in which the provider is running.

**Proxy:** The proxy setting.

## 2.2.4.10 Office 365 Integration Service

### 2.2.4.10.1 O365ConfigurationException

The **O365ConfigurationException** type describes errors in Office 365 integration configurations.

```
<xs:complexType name="O365ConfigureException">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
      base="q1:Exception" />
    </xs:complexContent>
  </xs:complexType>
```

## 2.2.4.11 Client Notification Service

### 2.2.4.11.1 NotificationResult

The **NotificationResult** type describes the notification result in the client notification service.

```
<xs:complexType name="NotificationResult">
  <xs:sequence>
    <xs:element minOccurs="0" name="clientName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="result" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>
```

**clientName:** A string that contains the name of the client.

**result:** A Boolean where TRUE indicates the notification is successfully sent to the client; otherwise, the value is FALSE.

### 2.2.4.11.2 NotificationResults

The **NotificationResults** type describes notification results in the client notification service.

```
<xs:complexType name="NotificationResults">
  <xs:sequence>
    <xs:list minOccurs="0" name="result" type="NotificationResult" />
  </xs:sequence>
</xs:complexType>
```

**result:** A list of **NotificationResults** (section [2.2.4.11.1](#)) that contains the results of the notifications.

### 2.2.4.11.3 Exception

The **Exception** type is an error complex type that contains information about a protocol server-side error. This complex type MUST only be included as part of a SOAP fault, as specified in section [2.2.4](#).

```

<xs:complexType name="Exception">
  <xs:sequence>
    <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
processContents="skip" />
  </xs:sequence>
  <xs:attribute ref="ser:FactoryType" />
</xs:complexType>

```

**FactoryType:** Specifies a factory class that can deserialize the type.

## 2.2.5 Simple Types

The following table summarizes the set of common XML Schema simple type definitions defined by this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

Simple Type	Description
SourceLibrary (section <a href="#">2.2.5.1.1</a> )	The <b>SourceLibrary</b> type contains the options governing which source libraries the client file backup provider will back up.
ManagedStatus (section <a href="#">2.2.5.1.2</a> )	The <b>ManagedStatus</b> type describes the computer managed status.
AbortReason (section <a href="#">2.2.5.2.1</a> )	The <b>AbortReason</b> type describes why a client backup job is aborted.
PCBackupClientFaultReason (section <a href="#">2.2.5.2.2</a> )	The <b>PCBackupClientFaultReason</b> type describes the type of fault that occurred in the client backup provider.
PCBackupProviderState (section <a href="#">2.2.5.2.3</a> )	The <b>PCBackupProviderState</b> type describes the state of the current backup set operation.
PCBackupStatusOperation (section <a href="#">2.2.5.2.4</a> )	The <b>PCBackupStatusOperation</b> type describes the operation status of the backup service.
PCBackupVolumePhase (section <a href="#">2.2.5.2.5</a> )	The <b>PCBackupVolumePhase</b> type describes the state of the current backup volume operation.
CleanupStatus (section <a href="#">2.2.5.2.6</a> )	The <b>CleanupStatus</b> type describes the status of the cleanup job.
PCClientDataStatus (section <a href="#">2.2.5.2.7</a> )	The <b>PCClientDataStatus</b> type describes the status of backups for each client after repair.
ClientHealth (section <a href="#">2.2.5.2.8</a> )	The <b>ClientHealth</b> type describes the client backup health status.
ClientJobStatus (section <a href="#">2.2.5.2.9</a> )	The <b>ClientJobStatus</b> type describes the status of client backup job.
ConfigureBackupFaultReason (section <a href="#">2.2.5.2.10</a> )	The <b>ConfigureBackupFaultReason</b> type contains the reason for an error that occurred when configuring the computer backup.
DatabaseState (section <a href="#">2.2.5.2.11</a> )	The <b>DatabaseState</b> type describes the state of the computer backup database.
ExclusionReason (section <a href="#">2.2.5.2.12</a> )	The <b>ExclusionReason</b> type describes why a file is excluded.
FailureReason (section <a href="#">2.2.5.2.13</a> )	The <b>FailureReason</b> type describes the reason for a backup failure.
MountPhase (section <a href="#">2.2.5.2.14</a> )	The <b>MountPhase</b> type describes the different phases of mounting a backup.

Simple Type	Description
PCBackupRepairState (section <a href="#">2.2.5.2.15</a> )	The <b>PCBackupRepairState</b> type describes the state of a backup repair operation.
RetentionState (section <a href="#">2.2.5.2.16</a> )	The <b>RetentionState</b> type describes backup jobs retention state.
StopReason (section <a href="#">2.2.5.2.17</a> )	The <b>StopReason</b> type describes why the computer backup service is stopped.
VolumeJobStatus (section <a href="#">2.2.5.2.18</a> )	The <b>VolumeJobStatus</b> type describes the configuration status of a volume.
VolumeLocation (section <a href="#">2.2.5.2.19</a> )	The <b>VolumeLocation</b> type indicates the location of a volume.
VolumeStatus (section <a href="#">2.2.5.2.20</a> )	The <b>VolumeStatus</b> type describes the configuration status of a volume.
PCBackupServerFaultReason (section <a href="#">2.2.5.2.21</a> )	The <b>PCBackupServerFaultReason</b> type indicates the type of fault that occurred in the client backup provider on the backup server.
TaskType (section <a href="#">2.2.5.3.1</a> )	The <b>TaskType</b> type represents type of tasks that the health provider processes.
HealthStatus (section <a href="#">2.2.5.3.2</a> )	The <b>HealthStatus</b> type represents the status of a health alert.
ErrorCatalogType (section <a href="#">2.2.5.4.1</a> )	The <b>ErrorCatalogType</b> describes the error catalog of the Machine provider call. It is used as error code.
MachineStatus (section <a href="#">2.2.5.4.2</a> )	The <b>MachineStatus</b> type describes the current status of a machine.
WSServerGroupType (section <a href="#">2.2.5.5.1</a> )	The <b>WSServerGroupType</b> type describes the type of group to which the user belongs.
UserCustomExceptionCode (section <a href="#">2.2.5.5.2</a> )	The <b>UserCustomExceptionCode</b> type describes the definition of the error code for the user operation in the user provider.
RemoteAccessType (section <a href="#">2.2.5.5.3</a> )	The <b>RemoteAccessType</b> type describes the type of remote access.
AccessLevelType (section <a href="#">2.2.5.5.4</a> )	The <b>AccessLevelType</b> type describes the type of access level.
UserStatus (section <a href="#">2.2.5.5.5</a> )	The <b>UserStatus</b> type describes the user status.
CredentialType (section <a href="#">2.2.5.6.1</a> )	The <b>CredentialType</b> type describes the type of credentials that will be used for client authentication on the provider.
ConnectionSetting (section <a href="#">2.2.5.6.2</a> )	The <b>ConnectionSetting</b> type describes the connection setting to decide what type of sources are allowed to access the provider.
ImpersonationLevel (section <a href="#">2.2.5.6.3</a> )	The <b>ImpersonationLevel</b> type defines security impersonation levels. Security impersonation levels govern the degree to which a server process can act on behalf of a client process.
UpdateClassification (section <a href="#">2.2.5.7.1</a> )	The <b>UpdateClassification</b> type represents the different types of updates that an add-in can have.
OSEditions (section <a href="#">2.2.5.7.2</a> )	The <b>OSEditions</b> type describes information about the operating system that is used to limit which clients a file is installed to.
AddInError (section <a href="#">2.2.5.7.3</a> )	The <b>AddInError</b> type represents the error ID strings that can be reported back from the download provider.

Simple Type	Description
FailureReason (section <a href="#">2.2.5.9.1</a> )	The <b>FailureReason</b> type represents the reason a failure occurred in the domain infrastructure service.
DomainStatus (section <a href="#">2.2.5.9.2</a> )	The <b>DomainStatus</b> type represents domain status from the point of view of the domain provider.
CertificateStatus (section <a href="#">2.2.5.9.3</a> )	The <b>CertificateStatus</b> type represents certificate status from the point of view of the domain provider.
DomainType (section <a href="#">2.2.5.9.4</a> )	The <b>DomainType</b> type describes the type of the domain supported.
DomainProviderEnvironment (section <a href="#">2.2.5.9.5</a> )	The <b>DomainProviderEnvironment</b> type describes the environment that the domain provider is running.
PasswordChangeStatus (section <a href="#">2.2.5.10.2</a> )	The <b>PasswordChangeStatus</b> type describes the status of a password change operation.

## 2.2.5.1 Client File Backup Provider

### 2.2.5.1.1 SourceLibrary

The **SourceLibrary** type contains the options governing which source libraries the client file backup provider will back up.

```
<xs:simpleType name="SourceLibrary">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DocumentsAndDesktop" />
    <xs:enumeration value="NoMediaLibraries" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
DocumentsAndDesktop	The provider will back up the client's documents library and desktop items.
NoMediaLibraries	The provider will back up all files except media libraries (picture, video, music).
All	The provider will back up all files supported by the file history.

### 2.2.5.1.2 ManagedStatus

The **ManagedStatus** type describes the computer managed status.

```
<xs:simpleType name="ManagedStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Managed" />
    <xs:enumeration value="NotManaged" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Managed	The file backup feature on the client is managed by the server.
NotManaged	The file backup feature on the client is not managed by the server.
Unknown	The managed status is unknown.

## 2.2.5.2 Client Backup Provider

### 2.2.5.2.1 AbortReason

- The **AbortReason** type describes why a client backup job is aborted.

```
<xs:simpleType name="AbortReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Authentication" />
    <xs:enumeration value="VersionMismatch" />
    <xs:enumeration value="Cancel" />
    <xs:enumeration value="ServerUnreachable" />
    <xs:enumeration value="ClientVssProblem" />
    <xs:enumeration value="ClientVssInsufficientSpace" />
    <xs:enumeration value="ClientIoError" />
    <xs:enumeration value="ClientException" />
    <xs:enumeration value="DBErrors" />
    <xs:enumeration value="ConnectionLost" />
    <xs:enumeration value="NotConfigured" />
    <xs:enumeration value="ServerFailure" />
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="VolumeMissing" />
    <xs:enumeration value="CantOpenVolume" />
    <xs:enumeration value="BadFileSystem" />
    <xs:enumeration value="DBIsOffline" />
    <xs:enumeration value="EspCaptureFailed" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
None	No abort occurred; never send this.
Authentication	Authentication problem.
VersionMismatch	Mismatch between server side and client side protocol versions.
Cancel	Operation canceled by user.
ServerUnreachable	Server could not be contacted.
ClientVssProblem	VSS problem on client.
ClientVssInsufficientSpace	Insufficient space on client for a VSS snapshot.
ClientIoError	Disk I/O error on client.
ClientException	Unexpected exception on client.
DBErrors	Server database is corrupt.

Value	Description
ConnectionLost	Connection was lost after backup was started.
NotConfigured	Either the client or the volume is not configured for backup.
ServerFailure	Unexpected exception on server.
Unknown	Failed due to unknown reason.
VolumeMissing	Volume is currently missing.
CantOpenVolume	Volume could not be opened.
BadFileSystem	Volume's file system is not supported.
DBIsOffline	Backup database is currently offline.
EspCaptureFailed	Backup engine failed to capture ESP.

### 2.2.5.2.2 PCBackupClientFaultReason

The **PCBackupClientFaultReason** type describes the type of fault that occurred in the client backup provider.

```
<xs:simpleType name="PCBackupClientFaultReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ServerNotReachable" />
    <xs:enumeration value="ClientNotConfigured" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
ServerNotReachable	ServerProvider is not reachable.
ClientNotConfigured	Client is not configured.
Unknown	Unknown error.

### 2.2.5.2.3 PCBackupProviderState

The **PCBackupProviderState** type describes the state of the current backup set operation.

```
<xs:simpleType name="PCBackupProviderState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Disconnected" />
    <xs:enumeration value="NotConfigured" />
    <xs:enumeration value="Connected" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Disconnected	Server is not available.
NotConfigured	Client is not configured for backup.
Connected	Server is connected.

#### 2.2.5.2.4 PCBackupStatusOperation

The **PCBackupStatusOperation** type describes the operation status of the backup service.

```
<xs:simpleType name="PCBackupStatusOperation">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="DeleteBackup" />
    <xs:enumeration value="Cleanup" />
    <xs:enumeration value="Backup" />
    <xs:enumeration value="PrepareRestore" />
    <xs:enumeration value="BasicChecker" />
    <xs:enumeration value="ComprehensiveChecker" />
    <xs:enumeration value="Suspend" />
    <xs:enumeration value="Repair" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
None	Backup server is idle.
DeleteBackup	Delete backups of a volume OR remove machine.
Cleanup	Database cleanup is in progress.
Backup	Backup operation is in progress.
PrepareRestore	Preparation phase of restore is in progress
BasicChecker	Basic consistency checker (BCC).
ComprehensiveChecker	Comprehensive consistency checker (CCC).
Suspend	A suspend operation (external).
Repair	Backup repair is in progress.
Unknown	Backup service is not reachable.

#### 2.2.5.2.5 PCBackupVolumePhase

The **PCBackupVolumePhase** type describes the state of the current backup volume operation.

```
<xs:simpleType name="PCBackupVolumePhase">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Idle" />
    <xs:enumeration value="ScanFileRecords" />
    <xs:enumeration value="ScanClusters" />
    <xs:enumeration value="Reorganize1" />
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="SendClusters" />
    <xs:enumeration value="Reorganize2" />
    <xs:enumeration value="Complete" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Idle	No volume operation in progress.
ScanFileRecords	Phase 1: Determining which file records have changed.
ScanClusters	Phase 2: Determining which clusters have changed.
Reorganize1	Phase 3: Reorganizing data on the server.
SendClusters	Phase 4: Sending data to the server.
Reorganize2	Phase 5: Reorganizing data on the server.
Complete	Volume completed.

### 2.2.5.2.6 CleanupStatus

The **CleanupStatus** type describes the status of the cleanup job.

```

<xs:simpleType name="CleanupStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Running" />
    <xs:enumeration value="CancelRequested" />
    <xs:enumeration value="Completed" />
    <xs:enumeration value="Cancelled" />
    <xs:enumeration value="CleanupStatusPendingRestore" />
    <xs:enumeration value="CleanupStatusDBErrors" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
None	No cleanup attempted since the last server start.
Running	Cleanup is currently running.
CancelRequested	Cleanup is running; cancel has been requested.
Completed	Most recent cleanup completed successfully.
Cancelled	Most recent cleanup was canceled.
CleanupStatusPendingRestore	Cleanup could not run due to pending restores.
CleanupStatusDBErrors	Cleanup could not run due to database errors.

### 2.2.5.2.7 PCClientDataStatus



The **PCClientDataStatus** type describes the status of backups for each client after repair.

```
<xs:simpleType name="PCClientDataStatus">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="NoLoss" />  
    <xs:enumeration value="PartialLoss" />  
    <xs:enumeration value="FullLoss" />  
  </xs:restriction>  
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
NoLoss	All backups were preserved after repair.
PartialLoss	Some backups were lost after repair.
FullLoss	All backups were lost for this machine.

### 2.2.5.2.8 ClientHealth

The **ClientHealth** type describes the client backup health status.

```
<xs:simpleType name="ClientHealth">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="Unknown" />  
    <xs:enumeration value="Normal" />  
    <xs:enumeration value="Warning" />  
    <xs:enumeration value="Error" />  
  </xs:restriction>  
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	No information.
Normal	Backups on schedule.
Warning	Missed a few backups.
Error	Missed several backups.

### 2.2.5.2.9 ClientJobStatus

The **ClientJobStatus** type describes the status of client backup job.

```
<xs:simpleType name="ClientJobStatus">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="Complete" />  
    <xs:enumeration value="Incomplete" />  
    <xs:enumeration value="Failed" />  
    <xs:enumeration value="InProgress" />  
    <xs:enumeration value="InQueue" />  
  </xs:restriction>  
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Complete	Job completed successfully. All configured volumes were backed up successfully.
Incomplete	Backup of at least one configured volume failed or skipped because volume was not available or broken because of data loss after backup.
Failed	Backup of every volume failed or every volume was skipped.
InProgress	Backup job is in progress. Backup of at least one volume is in progress or not started.
InQueue	Backup job is queued/waiting.

### 2.2.5.2.10 ConfigureBackupFaultReason

The **ConfigureBackupFaultReason** type contains the reason for an error that occurred when configuring the computer backup.

```
<xs:simpleType name="ConfigureBackupFaultReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ConfigurationInProgress" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
ConfigurationInProgress	Another configuration is in progress.

### 2.2.5.2.11 DatabaseState

The **DatabaseState** type describes the state of the computer backup database.

```
<xs:simpleType name="DatabaseState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="Healthy" />
    <xs:enumeration value="DBHasErrors" />
    <xs:enumeration value="DBIsNew" />
    <xs:enumeration value="DBIsOld" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	Database state is unknown.
Healthy	Database is online without any errors.
DBHasErrors	Database is online with errors.
DBIsNew	Database is offline because it is newer than code.
DBIsOld	Database is offline because it is older than code.

### 2.2.5.2.12 ExclusionReason

The **ExclusionReason** type describes why a file is excluded.

```
<xs:simpleType name="ExclusionReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotExcluded" />
    <xs:enumeration value="ClientSideCache" />
    <xs:enumeration value="TemporaryFiles" />
    <xs:enumeration value="DigitalVideoRecorder" />
    <xs:enumeration value="PageFile" />
    <xs:enumeration value="RecycleBin" />
    <xs:enumeration value="HibernationFile" />
    <xs:enumeration value="MemoryDump" />
    <xs:enumeration value="ShadowVolumes" />
    <xs:enumeration value="Other" />
    <xs:enumeration value="Count" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
NotExcluded	File is not excluded.
ClientSideCache	File is excluded because it is a client-side cache file.
TemporaryFiles	File is excluded because it is a temporary file.
DigitalVideoRecorder	File is excluded because it is a digital video recorder file.
PageFile	File is excluded because it is a page file.
RecycleBin	File is excluded because it is in the recycle bin.
HibernationFile	File is excluded because it is a hibernation file.
MemoryDump	File is excluded because it is a memory dump.
ShadowVolumes	File is excluded because it is a shadow volume file.
Other	File is excluded because of some other reason.
Count	Count of items in this enumeration.

### 2.2.5.2.13 FailureReason

The **FailureReason** type describes the reason for a backup failure.

```
<xs:simpleType name="FailureReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="NotAuthed" />
    <xs:enumeration value="InvalidSID" />
    <xs:enumeration value="ServerBusy" />
    <xs:enumeration value="MaxRestoreSessions" />
    <xs:enumeration value="DBErrors" />
    <xs:enumeration value="VolumeMissing" />
    <xs:enumeration value="BackupSetMissing" />
    <xs:enumeration value="BackupFailed" />
    <xs:enumeration value="RestoreVeriferFailed" />
    <xs:enumeration value="DBIsOffline" />
  </xs:restriction>
</xs:simpleType>
```

```

    </xs:restriction>
  </xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Unknown	Unknown failure reason.
NotAuthenticated	User is not authorized to perform this operation.
InvalidSID	Invalid client SID.
ServerBusy	Server is busy.
MaxRestoreSessions	Reached maximum number of simultaneous restore sessions.
DBErrors	Backup database has errors.
VolumeMissing	Requested volume GUID not in the volume configuration file.
BackupSetMissing	Requested backup set not in backup set file.
BackupFailed	Requested backup is marked as failed backup.
RestoreVerifierFailed	Restore verifier detected an error during preparation.
DBIsOffline	Backup database is currently offline.

#### 2.2.5.2.14 MountPhase

The **MountPhase** type describes the different phases of mounting a backup.

```

<xs:simpleType name="MountPhase">
  <xs:restriction base="xs:string">
    <xs:enumeration value="MountConnect" />
    <xs:enumeration value="MountAuthenticate" />
    <xs:enumeration value="MountLocateComputer" />
    <xs:enumeration value="MountLocateBackup" />
    <xs:enumeration value="MountLocateVolume" />
    <xs:enumeration value="MountMountVolume" />
    <xs:enumeration value="MountExploreVolume" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
MountConnect	Connect to the server.
MountAuthenticate	Authenticate the connection.
MountLocateComputer	Locate source computer.
MountLocateBackup	Locate source backup set.
MountLocateVolume	Locate source volume.

Value	Description
MountMountVolume	Actually mount the volume.
MountExploreVolume	Allow exploring the mounted volume.

### 2.2.5.2.15 PCBackupRepairState

The **PCBackupRepairState** type describes the state of a backup repair operation.

```
<xs:simpleType name="PCBackupRepairState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotStarted" />
    <xs:enumeration value="RepairNoErrors" />
    <xs:enumeration value="RepairDBIsNew" />
    <xs:enumeration value="RepairDBIsOld" />
    <xs:enumeration value="RepairInProgress" />
    <xs:enumeration value="RepairSucceeded" />
    <xs:enumeration value="RepairFailed" />
    <xs:enumeration value="RepairCanceled" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
NotStarted	Repair is starting. Not started yet.
RepairNoErrors	No database errors. Repair did not run.
RepairDBIsNew	Database is new. Repair did not run.
RepairDBIsOld	Database is old. Repair did not run.
RepairInProgress	Repair is running.
RepairSucceeded	Repair succeeded, for example, fixed all errors.
RepairFailed	Repair failed, for example, could not fix all errors.
RepairCanceled	Repair was canceled by user.
Unknown	Repair state is unknown.

### 2.2.5.2.16 RetentionState

The **RetentionState** type describes backup jobs retention state.

```
<xs:simpleType name="RetentionState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Delete" />
    <xs:enumeration value="Normal" />
    <xs:enumeration value="Locked" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Delete	Delete this job at next cleanup.
Normal	Delete this job when it is outside of retention policy.
Locked	Do not automatically delete this job.

### 2.2.5.2.17 StopReason

The **StopReason** type describes why the computer backup service is stopped.

```
<xs:simpleType name="StopReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="DatabaseRestore" />
    <xs:enumeration value="DatabaseRepair" />
    <xs:enumeration value="DatabaseLocationChanged" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
None	This is not used.
DatabaseRestore	Service is stopped because the database is being restored.
DatabaseRepair	Service is stopped because the database is being repaired.
DatabaseLocationChanged	Service is stopped because the database location has changed.

### 2.2.5.2.18 VolumeJobStatus

The **VolumeJobStatus** type describes the configuration status of a volume.

```
<xs:simpleType name="VolumeJobStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Complete" />
    <xs:enumeration value="Broken" />
    <xs:enumeration value="Failed" />
    <xs:enumeration value="Cancelled" />
    <xs:enumeration value="Skipped" />
    <xs:enumeration value="CheckPoint" />
    <xs:enumeration value="NotStarted" />
    <xs:enumeration value="InProgress" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Complete	Volume backup completed successfully. Volume can be used for restoration successfully.
Broken	Volume backup is broken due to data loss. Volume can be used for restoration but restore might fail.

Value	Description
Failed	Volume backup failed. Volume backup cannot be used for restoration.
Cancelled	Volume backup canceled. Volume backup cannot be used for restoration.
Skipped	Volume backup skipped. Volume backup cannot be used for restoration.
CheckPoint	Volume backup was completed but marked as a checkpoint. Volume backup cannot be used for restoration.
NotStarted	Volume backup has not started yet. Volume backup cannot be used for restoration.
InProgress	Volume backup is in progress.

### 2.2.5.2.19 VolumeLocation

The **VolumeLocation** type indicates the location of a volume.

```
<xs:simpleType name="VolumeLocation">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Missing" />
    <xs:enumeration value="Internal" />
    <xs:enumeration value="External" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Missing	Volume is not attached to the client.
Internal	Volume is attached and not removable.
External	Volume is attached but removable.

### 2.2.5.2.20 VolumeStatus

The **VolumeStatus** type describes the configuration status of a volume.

```
<xs:simpleType name="VolumeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotConfigured" />
    <xs:enumeration value="Exclude" />
    <xs:enumeration value="Include" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
NotConfigured	User has not indicated whether to back up this volume.
Exclude	Exclude this volume from backups.
Include	Include this volume in backups.

### 2.2.5.2.21 PCBackupServerFaultReason

The **PCBackupServerFaultReason** type indicates the type of fault that occurred in the client backup provider on the backup server.

```
<xs:simpleType name="PCBackupServerFaultReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ClientNotReachable" />
    <xs:enumeration value="ClientNotConfigured" />
    <xs:enumeration value="ServiceBusy" />
    <xs:enumeration value="ServiceNotReachable" />
    <xs:enumeration value="ClientNotFound" />
    <xs:enumeration value="ClientJobNotFound" />
    <xs:enumeration value="ClientVolumeNotFound" />
    <xs:enumeration value="RepairRunning" />
    <xs:enumeration value="DBHasErrors" />
    <xs:enumeration value="DBIsOffline" />
    <xs:enumeration value="ArgumentOutOfRange" />
    <xs:enumeration value="UnexpectedError" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
ClientNotReachable	Client cannot be reached.
ClientNotConfigured	Client is not configured for backup.
ServiceBusy	Backup service is busy.
ServiceNotReachable	Backup service cannot be reached.
ClientNotFound	Client was not found.
ClientJobNotFound	Client job was not found.
ClientVolumeNotFound	Client volume was not found.
RepairRunning	Repair operation is running.
DBHasErrors	Error occurred in the backup database.
DBIsOffline	Backup database is offline.
ArgumentOutOfRange	Invalid argument.
UnexpectedError	Unexpected error occurred.

### 2.2.5.3 Health Provider

#### 2.2.5.3.1 TaskType

The **TaskType** type represents type of tasks that the health provider processes.

```
<xs:simpleType name="TaskType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Raise" />
    <xs:enumeration value="Evaluate" />
    <xs:enumeration value="Clear" />
    <xs:enumeration value="Update" />
  </xs:restriction>
</xs:simpleType>
```



```

    </xs:restriction>
  </xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Raise	Represents raising an alert via an API call.
Evaluate	Represents evaluating local alerts.
Clear	Clearing an alert via an API call.
Update	Updates an alert via an API call.

### 2.2.5.3.2 HealthStatus

The **HealthStatus** type represents the status of a health alert.

```

<xs:simpleType name="HealthStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="OK" />
    <xs:enumeration value="Information" />
    <xs:enumeration value="Warning" />
    <xs:enumeration value="Critical" />
    <xs:enumeration value="Report" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
OK	The alert is not active.
Information	The alert is an information alert.
Warning	The alert is a warning alert.
Critical	The alert is a critical alert.
Report	The alert is a report containing additional information.

### 2.2.5.3.3 StreamBody

The **StreamBody** type represents a BASE64 encoded stream of data.

```

<xs:simpleType name="StreamBody">
  <xs:restriction base="xs:base64Binary" />
</xs:simpleType>

```

## 2.2.5.4 Machine Identity Provider

### 2.2.5.4.1 ErrorCatalogType

The **ErrorCatalogType** describes the error catalog of the Machine provider call. It is used as error code.

```

<xs:simpleType name="ErrorCatalogType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Succeeded" />
    <xs:enumeration value="MachineExists" />
    <xs:enumeration value="NetworkError" />
    <xs:enumeration value="CAError" />
    <xs:enumeration value="InvalidUser" />
    <xs:enumeration value="InvalidOwnerOfMachine" />
    <xs:enumeration value="InvaildCert" />
    <xs:enumeration value="ProviderNotAvailable" />
    <xs:enumeration value="AccessDenied" />
    <xs:enumeration value="TooManyComputers" />
    <xs:enumeration value="OtherError" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Succeeded	The call succeeded.
MachineExists	Found the same Certificate in the Server, and the Enroll is not a forced enrollment.
NetworkError	An HTTPS error occurred.
CAError	Any error reported back from the certificate authority.
InvalidUser	The user credentials are incorrect. The detailed error code will be a native error code.
InvalidOwnerOfMachine	The machine object is not owned by the user.
InvaildCert	The certificate has expired.
ProviderNotAvailable	The dependent provider is not available.
AccessDenied	The current user does not have the required permissions.
TooManyComputers	Too many computers.
OtherError	All other errors.

#### 2.2.5.4.2 MachineStatus

The **MachineStatus** type describes the current status of a machine.

```

<xs:simpleType name="MachineStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Active" />
    <xs:enumeration value="Deactive" />
    <xs:enumeration value="ActiveWithCert" />
    <xs:enumeration value="DeactiveWithCert" />
    <xs:enumeration value="NotExists" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Active	The machine is active.

Value	Description
Deactive	The machine is disabled or inactive.
ActiveWithCert	The machine is active with a certificate.
DeactiveWithCert	The machine is disabled or inactive with a certificate.
NotExists	The machine does not exist.

## 2.2.5.5 User Identity Provider

### 2.2.5.5.1 WSSServerGroupType

The **WSSServerGroupType** type describes the type of group to which the user belongs.

```
<xs:simpleType name="WSSServerGroupType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="InvalidAccess" />
    <xs:enumeration value="RemoteAccess" />
    <xs:enumeration value="ShareAccess" />
    <xs:enumeration value="ComputerAccess" />
    <xs:enumeration value="MediaAccess" />
    <xs:enumeration value="AddInAccess" />
    <xs:enumeration value="DashboardAccess" />
    <xs:enumeration value="HomePageLinks" />
    <xs:enumeration value="NetworkAlertAccess" />
    <xs:enumeration value="VpnAccess" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
InvalidAccess	InvalidAccess Group.
RemoteAccess	Global group that defines whether the user can log into the Remote Web Access (RWA).
ShareAccess	A user in this group can see the same shares they would if the user were internal on the network.
ComputerAccess	A user in this group can connect to the computers the user could if they were internal on the network.
MediaAccess	A user in this group has access to media components of the RWA as well as WMP RME Vail.
AddInAccess	A user in this group can see web-enabled add-ins.
DashboardAccess	A user in this group gets a link to the server dashboard in their RWA.
HomePageLinks	A user in this group can see the administrator-defined links on the home page.
NetworkAlertAccess	Network Alert Administrators. The user in this group is the alert administrator.
VpnAccess	A user in this group can access via VPN.

### 2.2.5.5.2 UserCustomExceptionCode

The **UserCustomExceptionCode** type describes the definition of the error code for the user operation in the user provider.

```

<xs:simpleType name="UserCustomExceptionCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Succeeded" />
    <xs:enumeration value="WinLogonFailed" />
    <xs:enumeration value="UserExists" />
    <xs:enumeration value="UserNotExist" />
    <xs:enumeration value="ProviderNotAvailable" />
    <xs:enumeration value="AccessDenied" />
    <xs:enumeration value="TooManyUsers" />
    <xs:enumeration value="CreateUserSharedFolderFailed" />
    <xs:enumeration value="Failed" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Succeeded	The user operation succeeded.
WinLogonFailed	Account does not exist, or the password of the account is wrong.
UserExists	User already exists.
UserNotExist	User does not exist.
ProviderNotAvailable	Dependent provider not available.
AccessDenied	Caller does not have the access required for this operation.
TooManyUsers	User number limit exceeds the policy per the Eula.
CreateUserSharedFolderFailed	Cannot create user folder.
Failed	General failure for any other reason.

### 2.2.5.5.3 RemoteAccessType

The **RemoteAccessType** type describes the type of remote access.

```

<xs:simpleType name="RemoteAccessType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="Allowed" />
    <xs:enumeration value="NotAllowed" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Unknown	Remote access type is unknown.
Allowed	Remote access is allowed.
NotAllowed	Remote access is not allowed.

### 2.2.5.5.4 AccessLevelType

The **AccessLevelType** type describes the type of access level.

```
<xs:simpleType name="AccessLevelType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="Guest" />
    <xs:enumeration value="User" />
    <xs:enumeration value="Administrator" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	Access level type is unknown.
Guest	Guest account.
User	Standard user account.
Administrator	Administrator account.

### 2.2.5.5.5 UserStatus

The **UserStatus** type describes the user status.

```
<xs:simpleType name="UserStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Disabled" />
    <xs:enumeration value="Enabled" />
    <xs:enumeration value="Error" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Disabled	It is disabled.
Enabled	It is enabled.
Error	User creation encountered an error.

## 2.2.5.6 Provider Registry Service

### 2.2.5.6.1 CredentialType

The **CredentialType** type describes the type of credentials that will be used for client authentication on the provider.

```
<xs:simpleType name="CredentialType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="User" />
    <xs:enumeration value="Machine" />
    <xs:enumeration value="None" />
  </xs:restriction>
</xs:simpleType>
```

```
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
User	Client credential type will be tied to the user. <a href="#">&lt;8&gt;</a>
Machine	Client credential type will be tied to the machine. <a href="#">&lt;9&gt;</a>
None	No client credential will be used.

### 2.2.5.6.2 ConnectionSetting

The **ConnectionSetting** type describes the connection setting to decide what type of sources are allowed to access the provider.

```
<xs:simpleType name="ConnectionSetting">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="AllowLocalAccessOnly" />  
    <xs:enumeration value="AllowRemoteAccess" />  
  </xs:restriction>  
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
AllowLocalAccessOnly	Allows the provider to accept incoming connections based on whether they are from the local host computer or the remote connection.
AllowRemoteAccess	Allows the provider to accept incoming connections from the local host and to have remote access to the host computer.

### 2.2.5.6.3 ImpersonationLevel

The **ImpersonationLevel** type defines security impersonation levels. Security impersonation levels govern the degree to which a server process can act on behalf of a client process.

```
<xs:simpleType name="ImpersonationLevel">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="Identification" />  
    <xs:enumeration value="Impersonation" />  
  </xs:restriction>  
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Identification	The server process can obtain information about the client, such as security identifiers and privileges, but it cannot impersonate the client. This is useful for servers that export their own objects, such as database products that export tables and views. Using the retrieved client-security information, the server can make access-validation decisions without being able to use other services that are using the client's security context.

Value	Description
Impersonation	The server process can impersonate the client's security context on its local system, but not on remote systems.

## 2.2.5.7 Addin Management

### 2.2.5.7.1 UpdateClassification

The **UpdateClassification** type represents the different types of updates that an add-in can have.

```
<xs:simpleType name="UpdateClassification">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="CriticalUpate" />
    <xs:enumeration value="ImportantUpdate" />
    <xs:enumeration value="Update" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	Unknown is not a valid value to set using AddInManager.NewAddInVersionAvailable.
CriticalUpate	The update is critical. Note the idiosyncratic spelling of the value string.
ImportantUpdate	The update is important.
Update	The update is less important.

### 2.2.5.7.2 OSEditions

The **OSEditions** type describes information about the operating system that is used to limit which clients a file is installed to.

```
<xs:simpleType name="OSEditions">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="NotSet">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Home">
          <xs:annotation>
            <xs:appinfo>
```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Pro">
<xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Starter">
<xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="MediaCenter">
<xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
None	The filter is not based on an operating system (OS) edition.
NotSet	Compatible with published SDK.
Home	Home OS SKUs.
Pro	Pro OS SKUs.
Starter	Starter OS SKUs.
MediaCenter	OS editions that contain Media Center.

### 2.2.5.7.3 AddInError

The **AddInError** type represents the error ID strings that can be reported back from the download provider.

```

<xs:simpleType name="AddInError">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="OperationCancelled" />
    <xs:enumeration value="UnknownException" />
    <xs:enumeration value="FileNotInPackage" />
    <xs:enumeration value="InvalidSignature" />
    <xs:enumeration value="DownloadError" />
    <xs:enumeration value="PackageExtraction" />
  </xs:restriction>
</xs:simpleType>

```



```

<xs:enumeration value="InstallError" />
<xs:enumeration value="UpgradeError" />
<xs:enumeration value="UnableToQueryServer" />
<xs:enumeration value="InvalidDownloadRequest" />
<xs:enumeration value="UninstallError" />
<xs:enumeration value="AuthorizationError" />
<xs:enumeration value="ProviderConnectionError" />
<xs:enumeration value="PackageFileCopyError" />
<xs:enumeration value="SettingsProviderError" />
<xs:enumeration value="InvalidData" />
<xs:enumeration value="UnknownAddIn" />
<xs:enumeration value="OperationInProgress" />
</xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
None	No error.
OperationCancelled	The asynchronous operation was successfully canceled.
UnknownException	An unknown error has occurred.
FileNotInPackage	The add-in package does not include an expected file.
InvalidSignature	The add-in package either does not have a signature when it is needed, or the signature is invalid.
DownloadError	An error occurred while downloading a file.
PackageExtraction	An error occurred while extracting files from the add-in package.
InstallError	An error occurred while installing an MSI.
UpgradeError	An error occurred while upgrading an MSI.
UnableToQueryServer	Unable to query server.
InvalidDownloadRequest	The download request was invalid (for example, an attempt to download using neither HTTP nor a signed package).
UninstallError	An error occurred while uninstalling an MSI.
AuthorizationError	Access denied.
ProviderConnectionError	An error occurred while connecting to the provider.
PackageFileCopyError	Could not copy add-in package.
SettingsProviderError	An error occurred while contacting the settings provider; changes will not be persisted.
InvalidData	The provided data is invalid; no changes have been made.
UnknownAddIn	The given add-in ID is not known; no action was taken.
OperationInProgress	An install/uninstall operation is already in progress.

## 2.2.5.8 Network Service

### 2.2.5.8.1 AddressFamily

The **Network Service** type is an enumeration that defines the various address family types. This protocol supports only the InterNetwork and InterNetworkV6 address family types. The other values **MUST NOT** be used. The InterNetwork address family specifies the IPv4 address family, and the InterNetworkV6 address family specifies the IPv6 address family.

```

<xs:simpleType name="AddressFamily">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">-1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="Unspecified">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="Unix">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="InterNetwork">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="ImpLink">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="Pup">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="Chaos">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="NS">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>

```

```

        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Ipx">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Iso">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Osi">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Ecma">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DataKit">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Ccitt">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Sna">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DecNet">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DataLink">
    <xs:annotation>

```

```

        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Lat">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="HyperChannel">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="AppleTalk">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NetBios">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="VoiceView">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">18</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="FireFox">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">19</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Banyan">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">21</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Atm">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>

```

```

    </xs:enumeration>
    <xs:enumeration value="InterNetworkV6">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Cluster">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ieee12844">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">25</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Irda">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">26</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NetworkDesigners">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Max">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
InterNetwork	Specifies the IPv4 address family.
InterNetworkV6	Specifies the IPv6 address family.

## 2.2.5.9 Domain Infrastructure Service

### 2.2.5.9.1 FailureReason

The **FailureReason** type represents the reason a failure occurred in the domain infrastructure service.

```
<xs:simpleType name="FailureReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="InvalidCredentials" />
    <xs:enumeration value="InvalidDomainName" />
    <xs:enumeration value="QuotaExceeded" />
    <xs:enumeration value="PurchaseNotStarted" />
    <xs:enumeration value="PurchaseFailed" />
    <xs:enumeration value="PendingCustomerInterventionRequired" />
    <xs:enumeration value="InRenewalCustomerInterventionRequired" />
    <xs:enumeration value="RenewalFailed" />
    <xs:enumeration value="RemoteProviderFailure" />
    <xs:enumeration value="CommunicationFailure" />
    <xs:enumeration value="LocalProviderFailure" />
    <xs:enumeration value="CertificateInstallFailure" />
    <xs:enumeration value="CertificateFileBroken" />
    <xs:enumeration value="CertificateNotTrusted" />
    <xs:enumeration value="CertificateBeforeValidPeriod" />
    <xs:enumeration value="CertificateNoPrivateKey" />
    <xs:enumeration value="CertificateFileBrokenOrPasswordWrong" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	Unknown failure.
InvalidCredentials	User credentials are incorrect.
InvalidDomainName	Domain name is not valid.
QuotaExceeded	Domain names under a user account exceeded the quota.
PurchaseNotStarted	User has not correctly initiated the purchase process.
PurchaseFailed	An error occurred when purchasing the domain name.
PendingCustomerInterventionRequired	Domain setup in progress; customer intervention needed.
InRenewalCustomerInterventionRequired	Domain renewal in progress; customer intervention needed.
RenewalFailed	Domain renewal failed.
RemoteProviderFailure	Remote provider failure.
CommunicationFailure	Communication failure.
LocalProviderFailure	Local provider failure.
CertificateInstallFailure	An error occurred when installing the certificate.
CertificateFileBroken	Certificate file is broken.
CertificateNotTrusted	Certificate is not trusted.

Value	Description
CertificateBebeforeValidPeriod	The current time precedes the valid certificate period.
CertificateNoPrivateKey	Certificate has no private key.
CertificateFileBrokenOrPasswordWrong	Certificate file is broken or the provider password is wrong.

### 2.2.5.9.2 DomainStatus

The **DomainStatus** type represents domain status from the point of view of the domain provider.

```

<xs:simpleType name="DomainStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="NotConfigured">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ready">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Pending">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PendingCustomerInterventionRequired">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Failed">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PurchaseFailed">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DomainNotFound">
      <xs:annotation>
        <xs:appinfo>

```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="InRenewal">
  <xs:annotation>
    <xs:appinfo>
      <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="InRenewalCustomerInterventionRequired">
  <xs:annotation>
    <xs:appinfo>
      <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="RenewalFailed">
  <xs:annotation>
    <xs:appinfo>
      <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Unknown	Domain status is unknown.
NotConfigured	Domain is not configured
Ready	Domain name is ready. DNS data might still be propagating.
Pending	Domain setup in progress; no customer intervention needed.
PendingCustomerInterventionRequired	Domain setup in progress; customer intervention needed.
Failed	Domain setup failed without a specific reason.
PurchaseFailed	Purchase of domain failed.
DomainNotFound	Domain is not found for this credential. This usually means that the purchase has not started.
InRenewal	Domain renewal in progress; no customer intervention needed.
InRenewalCustomerInterventionRequired	Domain renewal in progress; customer intervention needed.
RenewalFailed	Domain renewal failed.

### 2.2.5.9.3 CertificateStatus



The **CertificateStatus** type represents certificate status from the point of view of the domain provider.

```
<xs:simpleType name="CertificateStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="Ready" />
    <xs:enumeration value="Failed" />
    <xs:enumeration value="CertificateRequestNotSubmitted" />
    <xs:enumeration value="Pending" />
    <xs:enumeration value="PendingCustomerInterventionRequired" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
Unknown	Certificate status is unknown.
Ready	Certificate has been successfully provisioned or renewed and is ready for downloading.
Failed	Certificate request failed.
CertificateRequestNotSubmitted	Certificate request has not been submitted.
Pending	Trusted certificate issuance pending; no customer intervention needed.
PendingCustomerInterventionRequired	Trusted certificate issuance pending; customer intervention needed.

#### 2.2.5.9.4 DomainType

The **DomainType** type describes the type of the domain supported.

```
<xs:simpleType name="DomainType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="Home" />
    <xs:enumeration value="Business" />
    <xs:enumeration value="All" />
  </xs:restriction>
</xs:simpleType>
```

The following table describes the values for this type.

Value	Description
None	Domain is not supported.
Home	Domain is for a home network.
Business	Domain is for a business network.
All	Domain is for any network.

#### 2.2.5.9.5 DomainProviderEnvironment

The **DomainProviderEnvironment** type describes the environment that the domain provider is running.

```

<xs:simpleType name="DomainProviderEnvironment">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Testing" />
    <xs:enumeration value="Production" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
Testing	Domain provider is running in a testing environment.
Production	Domain provider is running in a production environment.

### 2.2.5.10 AzureAD and HostedEmail Integration Service

AzureAD and HostedEmail integration service SHOULD [<10>](#) be implemented.

#### 2.2.5.10.1 PasswordChangeType

The PasswordChangeType type describes the type of a password change operation.

```

<xs:simpleType name="PasswordChangeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AzureAD" />
    <xs:enumeration value="HostedEmail" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

Value	Description
AzureAD	The password change is for AzureAD.
HostedEmail	The password change is for HostedEmail.

#### 2.2.5.10.2 PasswordChangeStatus

The PasswordChangeStatus type describes the status of a password change operation.

```

<xs:simpleType name="PasswordChangeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="Required" />
    <xs:enumeration value="UnSubmitted" />
    <xs:enumeration value="New" />
    <xs:enumeration value="InProgress" />
    <xs:enumeration value="Success" />
    <xs:enumeration value="WaitForRetry" />
    <xs:enumeration value="Failed" />
    <xs:enumeration value="Fixed" />
    <xs:enumeration value="InvalidPassword" />
  </xs:restriction>
</xs:simpleType>

```

The following table describes the values for this type.

<b>Value</b>	<b>Description</b>
Unknown	Password change status is unknown.
Required	User is required to change the password, but it is not changed yet.
UnSubmitted	Password has not been submitted to the password sync receiver.
New	Password has been submitted to the password sync manager as a new event.
InProcess	Password change event needs to process.
Success	Succeeded in syncing with online.
WaitForRetry	Process failed within retry time, pending next retry.
Failed	Retry exceeded retry time.
Fixed	Marked fixed by end-users for failed data.
InvalidPassword	The password is invalid for Azure Active Directory.<11>

## 3 Protocol Details

### 3.1 Client File Backup Provider Service Contract Details

#### 3.1.1 Abstract Data Model

None.

#### 3.1.2 Timers

None.

#### 3.1.3 Initialization

None.

#### 3.1.4 Higher-Layer Triggered Events

None.

#### 3.1.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IUserConfigProvider.GetUserSettingAsync</a>	An asynchronous operation to obtain user settings.
<a href="#">IUserConfigProvider.GetClientManagedSettingAsync</a>	An asynchronous operation to determine whether a client is managed.
<a href="#">IUserConfigProvider.GetUserSettingCompleted</a>	The callback for the <code>IUserConfigProvider.GetUserSettingAsync</code> operation contract.
<a href="#">IUserConfigProvider.GetClientManagedCompleted</a>	The callback for the <code>IUserConfigProvider.GetClientManagedSettingAsync</code> operation contract.

##### 3.1.5.1 IUserConfigProvider.GetUserSettingAsync

This operation submits an asynchronous request to obtain user settings.

```
<wsdl:operation name="GetUserSettingAsync">  
  <wsdl:input wsam:Action="http://tempuri.org/IUserConfigProvider/GetUserSettingAsync"  
    message="tns:IUserConfigProvider_GetUserSettingAsync_InputMessage" />  
</wsdl:operation>
```

Upon receiving the **IUserConfigProvider\_GetUserSettingAsync\_InputMessage** request message, the protocol server retrieves the specified user settings and returns them through the **IUserConfigProvider.GetUserSettingCompleted** callback.

##### 3.1.5.1.1 Messages

###### 3.1.5.1.1.1 IUserConfigProvider\_GetUserSettingAsync\_InputMessage

This is the request for the **GetUserSettingAsync** operation.

```
<wsdl:message name="IUserConfigProvider_GetUserSettingAsync_InputMessage">
  <wsdl:part name="parameters" element="tns:GetUserSettingAsync" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IUserConfigProvider/GetUserSettingAsyncResponse
```

The body of the SOAP message MUST contain the **GetUserSettingAsync** element.

### 3.1.5.1.2 Elements

#### 3.1.5.1.2.1 GetUserSettingAsync

This element specifies input values for the **GetUserSettingAsync** operation. This element has no parameters.

```
<xs:element name="GetUserSettingAsync">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.1.5.2 IUserConfigProvider.GetClientManagedSettingAsync

This operation determines whether the client is managed.

```
<wsdl:operation name="GetClientManagedSettingAsync">
  <wsdl:input
  wsam:Action="http://tempuri.org/IUserConfigProvider/GetClientManagedSettingAsync"
  message="tns:IUserConfigProvider_GetClientManagedSettingAsync_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IUserConfigProvider\_GetClientManagedSettingAsync\_InputMessage** request message, the protocol server retrieves the specified user settings and returns them through the **IUserConfigProvider.GetClientManagedCompleted** callback.

#### 3.1.5.2.1 Messages

##### 3.1.5.2.1.1 IUserConfigProvider\_GetClientManagedSettingAsync\_InputMessage

This is the request for the **GetClientManagedSettingAsync** operation.

```
<wsdl:message name="IUserConfigProvider_GetClientManagedSettingAsync_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClientManagedSettingAsync" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IUserConfigProvider/GetClientManagedSettingAsync
```

The body of the SOAP message MUST contain the **GetClientManagedSettingAsync** element.

### 3.1.5.2.2 Elements

#### 3.1.5.2.2.1 GetClientManagedSettingAsync

This element specifies input values for the **GetClientManagedSettingAsync** operation.

```
<xs:element name="GetClientManagedSettingAsync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="machineName" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**machineName:** A string that contains the name of the machine from which the client managed setting is retrieved.

### 3.1.5.3 IUserConfigProviderCallback.GetUserSettingCompleted

This operation is the callback associated with the **IUserConfigProvider.GetUserSettingAsync** operation.

```
<wsdl:operation name="GetUserSettingCompleted">
  <wsdl:output wsam:Action="http://tempuri.org/IUserConfigProvider/GetUserSettingCompleted"
    message="tns:IUserConfigProvider GetUserSettingCompleted OutputCallbackMessage" />
</wsdl:operation>
```

### 3.1.5.3.1 Messages

#### 3.1.5.3.1.1 IUserConfigProvider\_GetUserSettingCompleted\_OutputCallbackMessage

This is the request for the **GetUserSettingCompleted** operation.

```
<wsdl:message name="IUserConfigProviderCallback_GetUserSettingCompleted_InputMessage">
  <wsdl:part name="parameters" element="tns:GetUserSettingCompleted" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IUserConfigProviderCallback/GetUserSettingCompleted
```

The body of the SOAP message MUST contain the **GetUserSettingCompleted** element.

### 3.1.5.3.2 Elements

#### 3.1.5.3.2.1 GetUserSettingCompleted

This element specifies input values for the **GetUserSettingCompleted** operation.

```
<xs:element name="GetUserSettingCompleted">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="exception" nillable="true"
type="ClientFileBackupException" />
    <xs:element minOccurs="0" name="configSet" type="ConfigurationSet" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**exception:** A **ClientFileBackupException** (section [2.2.4.1.1](#)) complex type that contains the exception thrown when getting user setting, if there is any; otherwise, the value is null.

**configset:** A **ConfigurationSet** (section [2.2.4.1.2](#)) complex type that contains the user configuration setting returned.

### 3.1.5.4 IUserConfigProvider.GetClientManagedCompleted

This operation is the callback associated with the **IUserConfigProvider.GetClientManagedSettingAsync** operation.

```

<wsdl:operation name="GetClientManagedCompleted">
  <wsdl:output wsam:Action="http://tempuri.org/IUserConfigProvider/GetClientManagedCompleted"
message="tns:IUserConfigProvider_GetClientManagedCompleted_OutputCallbackMessage" />
</wsdl:operation>

```

#### 3.1.5.4.1 Messages

##### 3.1.5.4.1.1 IUserConfigProvider\_GetClientManagedCompleted\_OutputCallbackMessage

This operation is the request for the **GetClientManagedCompleted** operation.

```

<wsdl:message name="IUserConfigProvider_GetClientManagedCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientManagedCompleted" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IUserConfigProvider/GetClientManagedCompleted
```

The body of the SOAP message MUST contain the **GetClientManagedCompleted** element.

#### 3.1.5.4.2 Elements

##### 3.1.5.4.2.1 GetClientManagedCompleted

This element specifies input values for the **GetClientManagedCompleted** operation.

```

<xs:element name="GetClientManagedCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="exception" nillable="true"
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup" type="q3:ClientFileBackupException" />

```

```

    <xs:element minOccurs="0" name="isManaged"
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup" type="q4:ManagedStatus" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**exception:** A **ClientFileBackupException** (section [2.2.4.1.1](#)) complex type that contains the exception thrown when calling **GetClientManagedAsync**, if there is any; otherwise, the value is null.

**isManaged:** A **ManagedStatus** (section [2.2.5.1.2](#)) string that indicates the management status of the client.

### 3.1.5.5 GetUserManagedSettingAsync

This operation submits an asynchronous request to obtain user managed settings.

```

<wsdl:operation name="GetUserManagedSettingAsync">
  <wsdl:input
wsaw:Action="http://tempuri.org/IUserConfigProvider/GetUserManagedSettingAsync"
message="tns:IUserConfigProvider_GetUserManagedSettingAsync_InputMessage" />
</wsdl:operation>

```

Upon receiving the **IUserConfigProvider\_GetUserManagedSettingAsync\_InputMessage** request message, the protocol server retrieves the specified user settings and returns them through **IUserConfigProviderCallback.GetUserSettingCompleted** (section [3.1.5.3](#)).

#### 3.1.5.5.1 Messages

##### 3.1.5.5.1.1 IUserConfigProvider\_GetUserManagedSettingAsync\_InputMessage

This operation is the request for the **GetUserManagedCompleted** operation.

```

<wsdl:operation name="GetUserManagedSettingAsync">
  <wsdl:input
wsaw:Action="http://tempuri.org/IUserConfigProvider/GetUserManagedSettingAsync"
message="tns:IUserConfigProvider_GetUserManagedSettingAsync_InputMessage" />
</wsdl:operation>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IUserConfigProvider/GetUserManagedSettingAsync
```

The body of the SOAP message MUST contain the **GetUserManagedSettingAsync** element.

#### 3.1.5.5.2 Elements

##### 3.1.5.5.2.1 GetUserManagedSettingAsync

This element specifies input values for the **GetUserManagedSettingAsync** operation.

```

<xs:element name="GetUserManagedSettingAsync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />

```



```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**userName:** A string that contains the name of the user from which the user managed setting is retrieved.

### 3.1.6 Timer Events

None.

### 3.1.7 Other Local Events

None.

## 3.2 Client Backup Provider Service Contract Details

### 3.2.1 Abstract Data Model

This section describes a conceptual service contract that an implementation maintains to participate in this protocol. The described operations of the service contract are provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this service contract as long as their external behavior is consistent with how it is described in this document.

#### 3.2.1.1 Backup Server

The backup server maintains the following data elements.

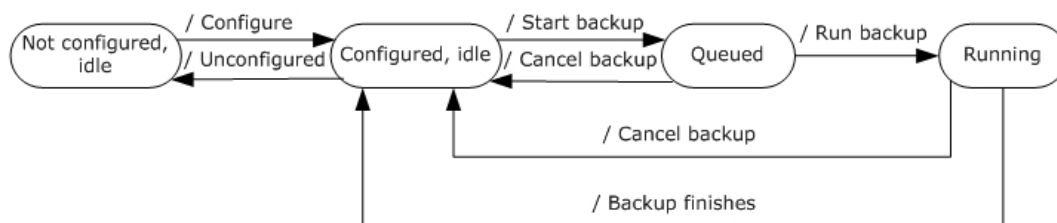
##### 3.2.1.1.1 List of Backup Client Configurations

The server maintains a list of backup configurations for each client.

##### 3.2.1.1.2 List of Backup Status

The server maintains a list of backup statuses for each client. The protocol allows the backup client to request to change the status.

The following state machine diagram illustrates the relationship between backup status and series of backup requests.



**Figure 2: Backup status machine diagram**

##### 3.2.1.1.3 List of Backup Volume Configurations for Each Client

The server maintains a list of backup configurations for each volume of each client.

#### 3.2.1.1.4 List of Backup Jobs

The server maintains a list of backup jobs, including jobs that are complete but not cleaned up, the job that is currently running, and jobs that are scheduled in the job queue.

#### 3.2.1.1.5 Backup Window and Retention Policy

Specifies the start time and the end time of the backup window in which automatic backups are scheduled.

#### 3.2.1.1.6 Retention Policy

Specifies the retention policy for old backups.

### 3.2.1.2 Backup Client

The backup clients maintain the following data elements:

- Priority: The priority of backup jobs for the client. This protocol only gets this value over the wire. This value can only be changed locally on the client by adding or changing a registry.
- Automatic backup schedule: The backup schedule of automatic backup jobs for the client. This is calculated from the backup window on the server. Each client has a different backup schedule; this prevents two clients from starting the automatic backup process at the same time. The schedule can be saved in the task scheduler. <12>

### 3.2.2 Timers

None.

### 3.2.3 Initialization

None.

### 3.2.4 Higher-Layer Triggered Events

None.

### 3.2.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IPCBackupServerRegister.RegisterBackupClient</a>	Registers the client's callback interface. Also returns client configuration from the server when called for the first time. For example, before the client sends any volume configuration information.
<a href="#">IPCBackupServerRegister.KeepAlive</a>	Keeps the channel alive.
<a href="#">IPCBackupServerRegister.VolumeCalculatorProgress</a>	Notifies the server of changes in progress on the volume tree calculation.
<a href="#">IPCBackupServerRegister.GetClientPriority</a>	Returns the priority of the client.
<a href="#">IPCBackupServerRegister.OnBatteryPower</a>	Returns whether the client is running on battery

OperationContract	Description
	power.
<a href="#">IPCBackupServerRegister.StartBackup</a>	Throws a fault of type invalid operation if the backup job is not in a stopped or started state. If the backup is already started, the operation has no effect and returns without any faults.
<a href="#">IPCBackupServerRegister.CancelBackup</a>	Cancels the backup job without regard for its state. Does nothing if it is already idle.
<a href="#">IPCBackupServerRegister.UpdateBackupConfiguration</a>	Updates the backup configuration on the client whenever it changes.
<a href="#">IPCBackupServerRegister.SendBackupProgress</a>	Updates the progress percentage of a running backup operation.
<a href="#">IPCBackupServerRegister.GetFolderChildren</a>	Gets folder children. Called after <b>CalculateVolume</b> finishes.
<a href="#">IPCBackupServerRegister.CalculateVolumeAsync</a>	Calculates the folder tree for the volume.
<a href="#">IPCBackupServerRegister.CleanFolderSizeCalculation</a>	Called by the server to clean the folder size calculation. Also called internally when the connection with the server breaks.
<a href="#">IPCBackupServerRegister.GetConnectedVolumes</a>	Called by the server to get the list of volumes that are connected to the client. Some could be configured while others are not.
<a href="#">IPCBackupServerRegister.RescanVolumesAsync</a>	Forces the client to send the volume configuration to the server.
<a href="#">IPCBackupServerProvider.Register</a>	Registers the caller with the PC backup server provider.
<a href="#">IPCBackupServerProvider.GetClients</a>	Operation to get list of all clients.
<a href="#">IPCBackupServerProvider.GetClient</a>	Operation to get a specific client.
<a href="#">IPCBackupServerProvider.GetClientJobs</a>	Returns the list of up to 100 client jobs from index.
<a href="#">IPCBackupServerProvider.GetVolumeJobs</a>	Operation to get list of all volume jobs.
<a href="#">IPCBackupServerProvider.GetClientVolumes</a>	Operation to get list of all client volumes.
<a href="#">IPCBackupServerProvider.SetClientJobDescription</a>	Operation to set client job description.
<a href="#">IPCBackupServerProvider.SetClientJobRetentionState</a>	Operation to set client job retention state.
<a href="#">IPCBackupServerProvider.SetClientVolumeStatus</a>	Operation to set client volume status.
<a href="#">IPCBackupServerProvider.SetExcludedFolders</a>	Operation to set excluded folders.
<a href="#">IPCBackupServerProvider.EnableBackups</a>	Operation to enable backups on a client.
<a href="#">IPCBackupServerProvider.DisableBackups</a>	Operation to disable backups on a client.
<a href="#">IPCBackupServerProvider.GetBackupConfiguration</a>	Operation to get system wide backup configuration: backup windows, cleanup schedule etc.
<a href="#">IPCBackupServerProvider.GetDefaultBackupConfiguration</a>	Operation to get default backup configuration:

OperationContract	Description
	backup windows, cleanup schedule etc.
<a href="#">IPCBackupServerProvider.GetBackupOperationStatus</a>	Operation to get backup operation status.
<a href="#">IPCBackupServerProvider.GetServiceStatus</a>	Operation to get backup service status.
<a href="#">IPCBackupServerProvider.GetWaitingOperations</a>	Operation to get waiting operations.
<a href="#">IPCBackupServerProvider.SetBackupConfiguration</a>	Operation to set system wide backup configurations.
<a href="#">IPCBackupServerProvider.GetUsedBytes</a>	Get total number of used bytes for all backups.
<a href="#">IPCBackupServerProvider.StartCleanup</a>	Operation to start cleanup operation.
<a href="#">IPCBackupServerProvider.CancelCleanup</a>	Operation to cancel cleanup operation.
<a href="#">IPCBackupServerProvider.StartRepair</a>	Operation to start repair operation.
<a href="#">IPCBackupServerProvider.CancelRepair</a>	Operation to cancel repair operation.
<a href="#">IPCBackupServerProvider.GetLastRepairResult</a>	Get last repair result.
<a href="#">IPCBackupServerProvider.StartConsistencyChecker</a>	Operation to start consistency checker operation.
<a href="#">IPCBackupServerProvider.CancelConsistencyChecker</a>	Operation to cancel consistency checker operation.
<a href="#">IPCBackupServerProvider.Remove</a>	Operation to remove specific client.
<a href="#">IPCBackupServerProvider.CalculateVolumeAsync</a>	Starts to calculate the specific volume.
<a href="#">IPCBackupServerProvider.GetFolderChildren</a>	Get children of the specified folder.
<a href="#">IPCBackupServerProvider.GetConnectedVolumes</a>	Get connected volumes of the specified client.
<a href="#">IPCBackupServerProvider.CleanFolderSizeCalculation</a>	Cleanup folder size calculation.
<a href="#">IPCBackupServerProvider.StartBackup</a>	Operation to start backup on a particular client.
<a href="#">IPCBackupServerProvider.CancelBackup</a>	Operation to cancel backup on a particular client.
<a href="#">IPCBackupServerProvider.StartBackupService</a>	Operation to start backup service.
<a href="#">IPCBackupServerProvider.StopBackupService</a>	Operation to stop backup service.
<a href="#">IPCBackupServerProvider.NotifyBackupOperationStatusChange</a>	Callback operation to notify caller of backup operation status change.
<a href="#">IPCBackupServerProvider.VolumeCalculatorProgress</a>	Callback operation to notify caller of volume calculator progress change.
<a href="#">IPCBackupServerProvider.NotifyServiceStatusChange</a>	Callback operation to notify caller of service status change.

### 3.2.5.1 IPCBackupServerRegister.RegisterBackupClient

Registers the client's callback interface. Also returns client configuration from the server when called for the first time. For example, before the client sends any volume configuration information.

```

<wsdl:operation name="RegisterBackupClient">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClient"
    message="tns:IPCBackupServerRegister_RegisterBackupClient_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClientResponse"
    message="tns:IPCBackupServerRegister_RegisterBackupClient_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClientInvalidOperationE
    xceptionFault" name="InvalidOperationExceptionFault"
    message="tns:IPCBackupServerRegister_RegisterBackupClient_InvalidOperationExceptionFault_Faul
    tMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerRegister\_RegisterBackupClient\_InputMessage** request message, the protocol server registers the callback interface. Upon successful completion of the action, the server MUST respond with **IPCBackupServerRegister\_RegisterBackupClient\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client, as specified in section [2.2.2.1](#).

### 3.2.5.1.1 Messages

#### 3.2.5.1.1.1 IPCBackupServerRegister\_RegisterBackupClient\_InputMessage

This is the request for the **RegisterBackupClient** operation.

```

<wsdl:message name="IPCBackupServerRegister_RegisterBackupClient_InputMessage">
  <wsdl:part name="parameters" element="tns:RegisterBackupClient" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/RegisterBackupClient
```

The body of the SOAP message MUST contain the **RegisterBackupClient** element.

#### 3.2.5.1.1.2 IPCBackupServerRegister\_RegisterBackupClient\_OutputMessage

This is the response for the **RegisterBackupClient** operation.

```

<wsdl:message name="IPCBackupServerRegister_RegisterBackupClient_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterBackupClientResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/RegisterBackupClientResponse
```

The body of the SOAP message MUST contain the **RegisterBackupClientResponse** element.

### 3.2.5.1.2 Elements

#### 3.2.5.1.2.1 RegisterBackupClient

This element specifies input values for the **RegisterBackupClient** operation. This element has no parameters.

```
<xs:element name="RegisterBackupClient">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.1.2.2 RegisterBackupClientResponse

This element specifies output values for the **RegisterBackupClient** operation.

```
<xs:element name="RegisterBackupClientResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RegisterBackupClientResult" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q1:ClientConfig" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**RegisterBackupClientResult:** A **ClientConfig** (section [2.2.4.2.7](#)) complex type that contains the result of the attempt to register the backup client.

### 3.2.5.2 IPCBackupServerRegister.KeepAlive

This operation only keeps the channel alive.

```
<wsdl:operation name="KeepAlive">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerRegister/KeepAlive"
message="tns:IPCBackupServerRegister_KeepAlive_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/KeepAliveResponse"
message="tns:IPCBackupServerRegister_KeepAlive_OutputMessage" />
</wsdl:operation>
```

Upon receiving **IPCBackupServerRegister\_KeepAlive\_InputMessage** request message, the protocol server gets the priority of the client. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerRegister\_KeepAlive\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.2.1 Messages

##### 3.2.5.2.1.1 IPCBackupServerRegister\_KeepAlive\_InputMessage

This is the request for the **KeepAlive** operation.

```
<wsdl:message name="IPCBackupServerRegister_KeepAlive_InputMessage">
  <wsdl:part name="parameters" element="tns:KeepAlive" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/KeepAlive
```

The body of the SOAP message MUST contain the **KeepAlive** element.

### 3.2.5.2.1.2 IPCBackupServerRegister\_KeepAlive\_OutputMessage

This is the response for the **KeepAlive** operation.

```
<wsdl:message name="IPCBackupServerRegister_KeepAlive_OutputMessage">
  <wsdl:part name="parameters" element="tns:KeepAliveResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/KeepAliveResponse
```

The body of the SOAP message MUST contain the **KeepAliveResponse** element.

### 3.2.5.2.2 Elements

#### 3.2.5.2.2.1 KeepAlive

This element specifies input values for the **KeepAlive** operation. This element has no parameters.

```
<xs:element name="KeepAlive">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.2.2.2 KeepAliveResponse

This element specifies output values for the **KeepAlive** operation. This element has no parameters.

```
<xs:element name="KeepAliveResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.3 IPCBackupServerRegister.VolumeCalculatorProgress

Notifies the server of progress on a volume tree calculation.

```
<wsdl:operation name="VolumeCalculatorProgress">
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/VolumeCalculatorProgress"
    message="tns:IPCBackupServerRegister_VolumeCalculatorProgress_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_VolumeCalculatorProgress\_InputMessage** request message, the protocol server is notified of the changes in progress on the volume tree calculation.

#### 3.2.5.3.1 Messages

### 3.2.5.3.1.1 IPCBackupServerRegister\_VolumeCalculatorProgress\_InputMessage

This is the request for the **VolumeCalculatorProgress** operation.

```
<wsdl:message name="IPCBackupServerRegister_VolumeCalculatorProgress_InputMessage">
  <wsdl:part name="parameters" element="tns:VolumeCalculatorProgress" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBakupServerRegister/VolumeCalculatorProgress
```

The body of the SOAP message MUST contain the **VolumeCalculatorProgress** element.

### 3.2.5.3.2 Elements

#### 3.2.5.3.2.1 VolumeCalculatorProgress

This element specifies input values for the **VolumeCalculatorProgress** operation.

```
<xs:element name="VolumeCalculatorProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="guid"
        xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/" type="q2:guid" />
      <xs:element minOccurs="0" name="percentDone" type="xs:int" />
      <xs:element minOccurs="0" name="folders" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q3:ArrayOfFolderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**guid:** The GUID of the volume.

**percentDone:** An integer that contains the progress of the current operation; valid values range from 0 to 100 percent.

**Folders:** An array of **FolderInfo** (section [2.2.4.2.14](#)) complex types that contains folders that have already been calculated.

### 3.2.5.4 IPCBackupServerRegister.GetClientPriority

This callback operation returns the priority of the client.

```
<wsdl:operation name="GetClientPriority">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBakupServerRegister/GetClientPriority"
    message="tns:IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage" />
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBakupServerRegister/GetClientPriorityResponse"
    message="tns:IPCBackupServerRegister_GetClientPriority_InputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_GetClientPriority\_OutputCallbackMessage** request message, the protocol client MUST return its priority with



**IPCBackupServerRegister\_GetClientPriority\_InputCallbackMessage**. In the event of a failure, the appropriate **SOAP** fault MUST be sent to the server as specified in section [2.2.2.1](#).

### 3.2.5.4.1 Messages

#### 3.2.5.4.1.1 IPCBackupServerRegister\_GetClientPriority\_OutputCallbackMessage

This is the request for the **GetClientPriority** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientPriority" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/GetClientPriority
```

The body of the SOAP message MUST contain the **GetClientPriority** element.

#### 3.2.5.4.1.2 IPCBackupServerRegister\_GetClientPriority\_InputCallbackMessage

This is the response for the **GetClientPriority** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetClientPriority_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientPriorityResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/GetClientPriorityResponse
```

The body of the SOAP message MUST contain the **GetClientPriorityResponse** element.

### 3.2.5.4.2 Elements

#### 3.2.5.4.2.1 GetClientPriority

This element specifies input values for the **GetClientPriority** operation. This element has no parameters.

```
<xs:element name="GetClientPriority">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.4.2.2 GetClientPriorityResponse

This element specifies output values for the **GetClientPriority** operation.

```
<xs:element name="GetClientPriorityResponse">
  <xs:complexType>
    <xs:sequence>
```

```

        <xs:element minOccurs="0" name="GetClientPriorityResult" type="xs:int" />
    </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetClientPriorityResult:** An integer that contains the priority of the client for the on-demand backup job. The lowest priority value is Int.MaxValue; the smaller the value, the higher the priority.

### 3.2.5.5 IPCBackupServerRegister.OnBatteryPower

This callback operation returns a value indicating whether the client is running on battery power.

```

<wsdl:operation name="OnBatteryPower">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/OnBatteryPower"
  message="tns:IPCBackupServerRegister_OnBatteryPower_OutputCallbackMessage" />
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerRegister/OnBatteryPowerResponse"
  message="tns:IPCBackupServerRegister_OnBatteryPower_InputCallbackMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerRegister\_OnBatteryPower\_OutputCallbackMessage** request message, the protocol client checks whether it is running on battery. On successful completion of the action, the client MUST respond with **IPCBackupServerRegister\_OnBatteryPower\_InputCallbackMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.5.1 Messages

##### 3.2.5.5.1.1 IPCBackupServerRegister\_OnBatteryPower\_OutputCallbackMessage

This is the request for the **OnBatteryPower** operation.

```

<wsdl:message name="IPCBackupServerRegister_OnBatteryPower_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnBatteryPower" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/OnBatteryPower
```

The body of the SOAP message MUST contain the **OnBatteryPower** element.

##### 3.2.5.5.1.2 IPCBackupServerRegister\_OnBatteryPower\_InputCallbackMessage

This is the response for the **OnBatteryPower** operation.

```

<wsdl:message name="IPCBackupServerRegister_OnBatteryPower_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnBatteryPowerResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/OnBatteryPowerResponse
```

The body of the SOAP message MUST contain the **OnBatteryPowerResponse** element.

### 3.2.5.5.2 Elements

#### 3.2.5.5.2.1 OnBatteryPower

This element specifies input values for the **OnBatteryPower** operation. This element has no parameters.

```
<xs:element name="OnBatteryPower">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.5.2.2 OnBatteryPowerResponse

This element specifies output values for the **OnBatteryPower** operation.

```
<xs:element name="OnBatteryPowerResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="OnBatteryPowerResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**OnBatteryPowerResult:** A Boolean where TRUE indicates that the client is currently on battery; otherwise, the value is FALSE.

### 3.2.5.6 IPCBackupServerRegister.StartBackup

This callback operation throws an invalid operation fault if the backup job is not in the stopped or started state. Has no effect if the backup job is already started.

```
<wsdl:operation name="StartBackup">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/StartBackup"
  message="tns:IPCBackupServerRegister_StartBackup_OutputCallbackMessage" />
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerRegister/StartBackupResponse"
  message="tns:IPCBackupServerRegister_StartBackup_InputCallbackMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerRegister/StartBackupPCBackupClientFaultFault"
  name="PCBackupClientFaultFault"
  message="tns:IPCBackupServerRegister_StartBackup_PCBackupClientFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_StartBackup\_OutputCallbackMessage** request message, the protocol client starts a backup. Upon successful completion of a start backup operation, or if one is already in progress, the client MUST respond with

**IPCBackupServerRegister\_StartBackup\_InputCallbackMessage**. In the event of a failure, or if backup is not in a stopped or started state, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

If backup is automatic, **allowPostpone** specifies whether a queued backup can be postponed if the automatic backup window is finished. The **allowPostpone** option is ignored if backups are configured to be started manually.

### 3.2.5.6.1 Messages

#### 3.2.5.6.1.1 IPCBackupServerRegister\_StartBackup\_OutputCallbackMessage

This is the request for the **StartBackup** operation.

```
<wsdl:message name="IPCBackupServerRegister_StartBackup_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackup" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/StartBackup
```

The body of the SOAP message MUST contain the **StartBackup** element.

#### 3.2.5.6.1.2 IPCBackupServerRegister\_StartBackup\_InputCallbackMessage

This is the response for the **StartBackup** operation.

```
<wsdl:message name="IPCBackupServerRegister_StartBackup_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackupResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/StartBackupResponse
```

The body of the SOAP message MUST contain the **StartBackupResponse** element.

### 3.2.5.6.2 Elements

#### 3.2.5.6.2.1 StartBackup

This element specifies input values for the **StartBackup** operation.

```
<xs:element name="StartBackup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="automatic" type="xs:boolean" />
      <xs:element minOccurs="0" name="description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="allowPostpone" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**automatic:** A Boolean where TRUE indicates the backup is automatic; otherwise, the value is FALSE.

**description:** The description of the backup.

**allowPostpone:** A Boolean where TRUE indicates that postponing the backup is allowed; otherwise, the value is FALSE.

### 3.2.5.6.2.2 StartBackupResponse

This element specifies output values for the **StartBackup** operation. This element has no parameters.

```
<xs:element name="StartBackupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.7 IPCBackupServerRegister.CancelBackup

This callback operation cancels the backup job, regardless of the job's current state.

```
<wsdl:operation name="CancelBackup">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackup"
message="tns:IPCBackupServerRegister_CancelBackup_OutputCallbackMessage" />
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackupResponse"
message="tns:IPCBackupServerRegister_CancelBackup_InputCallbackMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackupPCBackupClientFaultFault"
name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_CancelBackup_PCBackupClientFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_CancelBackup\_OutputCallbackMessage** request message, the protocol client cancels the backup job without regard for its state. If it is already idle, then it does nothing. On successful completion of the action, the client MUST respond with **IPCBackupServerRegister\_CancelBackup\_InputCallbackMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.7.1 Messages

##### 3.2.5.7.1.1 IPCBackupServerRegister\_CancelBackup\_OutputCallbackMessage

This is the request for the **CancelBackup** operation.

```
<wsdl:message name="IPCBackupServerRegister_CancelBackup_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CancelBackup" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/CancelBackup
```

The body of the SOAP message MUST contain the **CancelBackup** element.

##### 3.2.5.7.1.2 IPCBackupServerRegister\_CancelBackup\_InputCallbackMessage

This is the response for the **CancelBackup** operation.

```
<wsdl:message name="IPCBackupServerRegister_CancelBackup_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CancelBackupResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/CancelBackupResponse
```

The body of the SOAP message MUST contain the **CancelBackupResponse** element.

### 3.2.5.7.2 Elements

#### 3.2.5.7.2.1 CancelBackup

This element specifies input values for the **CancelBackup** operation. This element has no parameters.

```
<xs:element name="CancelBackup">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.7.2.2 CancelBackupResponse

This element specifies output values for the **CancelBackup** operation. This element has no parameters.

```
<xs:element name="CancelBackupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.8 IPCBackupServerRegister.UpdateBackupConfiguration

This callback operation sets the protocol server to update the backup configuration on the client whenever it changes.

```
<wsdl:operation name="UpdateBackupConfiguration">
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerRegister/UpdateBackupConfiguration"
message="tns:IPCBackupServerRegister_UpdateBackupConfiguration_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the

**IPCBackupServerRegister\_UpdateBackupConfiguration\_OutputCallbackMessage** request message, the protocol client updates the backup configuration on the server whenever it changes. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.8.1 Messages

##### 3.2.5.8.1.1 IPCBackupServerRegister\_UpdateBackupConfiguration\_OutputCallbackMessage

This is the request for the **UpdateBackupConfiguration** operation.

```
<wsdl:message name="IPCBackupServerRegister_UpdateBackupConfiguration_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:UpdateBackupConfiguration" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/UpdateBackupConfiguration
```

The body of the SOAP message MUST contain the **UpdateBackupConfiguration** element.

### 3.2.5.8.2 Elements

#### 3.2.5.8.2.1 UpdateBackupConfiguration

This element specifies input values for the **UpdateBackupConfiguration** operation.

```
<xs:element name="UpdateBackupConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="backupConfig" nillable="true"
        xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q4:ClientConfig" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**backupConfig**: A **ClientConfig** (section [2.2.4.2.7](#)) complex type that indicates the type of backup configuration.

### 3.2.5.9 IPCBackupServerRegister.SendBackupProgress

This callback operation updates the percent complete of a running backup operation.

```
<wsdl:operation name="SendBackupProgress">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/SendBackupProgress"
    message="tns:IPCBackupServerRegister_SendBackupProgress_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_SendBackupProgress\_OutputCallbackMessage** request message, the protocol client updates the progress percentage of a running backup operation. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.9.1 Messages

##### 3.2.5.9.1.1 IPCBackupServerRegister\_SendBackupProgress\_OutputCallbackMessage

This is the request for the **SendBackupProgress** operation.

```
<wsdl:message name="IPCBackupServerRegister_SendBackupProgress_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:SendBackupProgress" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://tempuri.org/IPCBackupServerRegister/SendBackupProgress>

The body of the SOAP message MUST contain the **SendBackupProgress** element.

### 3.2.5.9.2 Elements

#### 3.2.5.9.2.1 SendBackupProgress

This element specifies input values for the **SendBackupProgress** operation.

```
<xs:element name="SendBackupProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="progress" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**progress:** An integer that contains the progress of the backup; valid values range from 0 to 100 percent.

### 3.2.5.10 IPCBackupServerRegister.GetFolderChildren

This callback operation returns the children of a specific folder.

```
<wsdl:operation name="GetFolderChildren">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildren"
message="tns:IPCBackupServerRegister_GetFolderChildren_OutputCallbackMessage" />
  <wsdl:input
wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildrenResponse"
message="tns:IPCBackupServerRegister_GetFolderChildren_InputCallbackMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildrenPCBackupClientFaultF
ault" name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_GetFolderChildren_PCBackupClientFaultFault_FaultMessage"
/>
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_GetFolderChildren\_OutputCallbackMessage** request message, the protocol client returns the children of the specific folder. It is called after **CalculateVolume** has finished. On successful completion of the action, the client MUST respond with **IPCBackupServerRegister\_GetFolderChildren\_InputCallbackMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.10.1 Messages

##### 3.2.5.10.1.1 IPCBackupServerRegister\_GetFolderChildren\_OutputCallbackMessage

This is the request for the **GetFolderChildren** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetFolderChildren_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildren" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.



`http://tempuri.org/IPCBackupServerRegister/GetFolderChildren`

The body of the SOAP message MUST contain the **GetFolderChildren** element.

### 3.2.5.10.1.2 IPCBackupServerRegister\_GetFolderChildren\_InputCallbackMessage

This is the response for the **GetFolderChildren** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetFolderChildren_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildrenResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

`http://tempuri.org/IPCBackupServerRegister/GetFolderChildrenResponse`

The body of the SOAP message MUST contain the **GetFolderChildrenResponse** element.

## 3.2.5.10.2 Elements

### 3.2.5.10.2.1 GetFolderChildren

This element specifies input values for the **GetFolderChildren** operation.

```
<xs:element name="GetFolderChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="folderRequest" nillable="true"
        xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q5:FolderRequest" />
      <xs:element minOccurs="0" name="index" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**folderRequest:** A **FolderRequest** (section [2.2.4.2.16](#)) complex type that contains the data needed for getting folder children.

**index:** An integer that contains the index of the request.

### 3.2.5.10.2.2 GetFolderChildrenResponse

This element specifies output values for the **GetFolderChildren** operation.

```
<xs:element name="GetFolderChildrenResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetFolderChildrenResult" nillable="true"
        xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q6:FolderInfoGroup" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFolderChildrenResult:** A **FolderInfoGroup** (section [2.2.4.2.15](#)) complex type that contains the result of the attempt to get information about folder children.

### 3.2.5.11 IPCBackupServerRegister.CalculateVolumeAsync

This callback operation calculates the folder tree for a given volume.

```
<wsdl:operation name="CalculateVolumeAsync">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsync"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage" />
  <wsdl:input
wsam:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsyncResponse"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsyncPCBackupClientFaultFault" name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_PCBackupClientFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_CalculateVolumeAsync\_OutputCallbackMessage** request message, the protocol client calculates the folder tree for the volume. On successful completion of the action, the client MUST respond with **IPCBackupServerRegister\_CalculateVolumeAsync\_InputCallbackMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.11.1 Messages

##### 3.2.5.11.1.1 IPCBackupServerRegister\_CalculateVolumeAsync\_OutputCallbackMessage

This is the request for the **CalculateVolumeAsync** operation.

```
<wsdl:message name="IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CalculateVolumeAsync" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsync
```

The body of the SOAP message MUST contain the **CalculateVolumeAsync** element.

##### 3.2.5.11.1.2 IPCBackupServerRegister\_CalculateVolumeAsync\_InputCallbackMessage

This is the response for the **CalculateVolumeAsync** operation.

```
<wsdl:message name="IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CalculateVolumeAsyncResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsyncResponse>

The body of the SOAP message MUST contain the **CalculateVolumeAsyncResponse** element.

### 3.2.5.11.2 Elements

#### 3.2.5.11.2.1 CalculateVolumeAsync

This element specifies input values for the **CalculateVolumeAsync** operation.

```
<xs:element name="CalculateVolumeAsync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="volumeGuid"
        xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/" type="q7:guid" />
      <xs:element minOccurs="0" name="excludedFolders" nillable="true"
        xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q8:ArrayOfstring"
        />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**volumeGuid:** The GUID of the volume.

**excludedFolders:** An array of string values that contains the folders that should be excluded.

#### 3.2.5.11.2.2 CalculateVolumeAsyncResponse

This element specifies output values for the **CalculateVolumeAsync** operation.

```
<xs:element name="CalculateVolumeAsyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CalculateVolumeAsyncResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**CalculateVolumeAsyncResult:** A Boolean where TRUE indicates that the calculation was successfully started; otherwise, the value is FALSE.

### 3.2.5.12 IPCBackupServerRegister.CleanFolderSizeCalculation

This callback operation resets the protocol client's folder size calculation.

```
<wsdl:operation name="CleanFolderSizeCalculation">
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/CleanFolderSizeCalculation"
    message="tns:IPCBackupServerRegister_CleanFolderSizeCalculation_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_CleanFolderSizeCalculation\_OutputCallbackMessage** request message, the protocol client resets the folder size calculation. In the event of a failure, an appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

### 3.2.5.12.1 Messages

#### 3.2.5.12.1.1 IPCBackupServerRegister\_CleanFolderSizeCalculation\_OutputCallbackMessage

This is the request for the **CleanFolderSizeCalculation** operation.

```
<wsdl:message
  name="IPCBackupServerRegister_CleanFolderSizeCalculation_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CleanFolderSizeCalculation" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/CleanFolderSizeCalculation
```

The body of the SOAP message MUST contain the **CleanFolderSizeCalculation** element.

### 3.2.5.12.2 Elements

#### 3.2.5.12.2.1 CleanFolderSizeCalculation

This element specifies input values for the **CleanFolderSizeCalculation** operation. This element has no parameters.

```
<xs:element name="CleanFolderSizeCalculation">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.13 IPCBackupServerRegister.GetConnectedVolumes

This callback operation is called by the server to obtain the list of volumes connected to the client.

```
<wsdl:operation name="GetConnectedVolumes">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumes"
    message="tns:IPCBackupServerRegister_GetConnectedVolumes_OutputCallbackMessage" />
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumesResponse"
    message="tns:IPCBackupServerRegister_GetConnectedVolumes_InputCallbackMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumesPCBackupClientFaultFault"
    name="PCBackupClientFaultFault"
    message="tns:IPCBackupServerRegister_GetConnectedVolumes_PCBackupClientFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_GetConnectedVolumes\_OutputCallbackMessage** request message, the protocol client returns the list of configured and unconfigured volumes connected to the client. On successful completion of the action, the client MUST respond with **IPCBackupServerRegister\_GetConnectedVolumes\_InputCallbackMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

### 3.2.5.13.1 Messages

### 3.2.5.13.1.1 IPCBackupServerRegister\_GetConnectedVolumes\_OutputCallbackMessage

This is the request for the **GetConnectedVolumes** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetConnectedVolumes_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetConnectedVolumes" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBakupServerRegister/GetConnectedVolumes
```

The body of the SOAP message MUST contain the **GetConnectedVolumes** element.

### 3.2.5.13.1.2 IPCBackupServerRegister\_GetConnectedVolumes\_InputCallbackMessage

This is the response for the **GetConnectedVolumes** operation.

```
<wsdl:message name="IPCBackupServerRegister_GetConnectedVolumes_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetConnectedVolumesResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBakupServerRegister/GetConnectedVolumesResponse
```

The body of the SOAP message MUST contain the **GetConnectedVolumesResponse** element.

## 3.2.5.13.2 Elements

### 3.2.5.13.2.1 GetConnectedVolumes

This element specifies input values for the **GetConnectedVolumes** operation. This element has no parameters.

```
<xs:element name="GetConnectedVolumes">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.13.2.2 GetConnectedVolumesResponse

This element specifies output values for the **GetConnectedVolumes** operation.

```
<xs:element name="GetConnectedVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetConnectedVolumesResult" nillable="true"
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q9:ArrayOfClientVolumeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetConnectedVolumesResult:** An array of **ClientVolumeInfo** (section [2.2.4.2.11](#)) complex types that contains the result of the attempt to get information about the connected volumes of the specified client.

### 3.2.5.14 IPCBackupClientManagement.RescanVolumesAsync

This callback operation is called by the server to force a client to send the volume configuration to the server.

```
<wsdl:operation name="RescanVolumesAsync">
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerRegister/RescanVolumesAsync"
    message="tns:IPCBackupServerRegister RescanVolumesAsync OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerRegister\_RescanVolumesAsync\_OutputCallbackMessage** request message, the protocol client starts to send the volume configuration to the protocol server. In the event of a failure, the appropriate **SOAP** fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.2.5.14.1 Messages

##### 3.2.5.14.1.1 IPCBackupServerRegister\_RescanVolumesAsync\_OutputCallbackMessage

This is the request for the **RescanVolumesAsync** operation.

```
<wsdl:message name="IPCBackupServerRegister RescanVolumesAsync OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RescanVolumesAsync" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerRegister/RescanVolumesAsync
```

The body of the SOAP message MUST contain the **RescanVolumesAsync** element.

#### 3.2.5.14.2 Elements

##### 3.2.5.14.2.1 RescanVolumesAsync

This element specifies input values for the **RescanVolumesAsync** operation. This element has no parameters.

```
<xs:element name="RescanVolumesAsync">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.15 IPCBackupServerProvider.Register

This operation registers the caller with the PC backup server provider.

```
<wsdl:operation name="Register">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/Register"
  message="tns:IPCBackupServerProvider_Register_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/RegisterResponse"
  message="tns:IPCBackupServerProvider_Register_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/RegisterSecurityAccessDeniedException
  Fault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_Register_SecurityAccessDeniedExceptionFault_FaultMessage
  " />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_Register\_InputMessage** request message, the protocol server registers the caller with the PC backup server provider. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_Register\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.15.1 Messages

##### 3.2.5.15.1.1 IPCBackupServerProvider\_Register\_InputMessage

This is the request for the **Register** operation.

```
<wsdl:message name="IPCBackupServerProvider_Register_InputMessage">
  <wsdl:part name="parameters" element="tns:Register" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/Register
```

The body of the SOAP message **MUST** contain the **Register** element.

##### 3.2.5.15.1.2 IPCBackupServerProvider\_Register\_OutputMessage

This is the response for the **Register** operation.

```
<wsdl:message name="IPCBackupServerProvider_Register_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/RegisterResponse
```

The body of the SOAP message **MUST** contain the **RegisterResponse** element.

#### 3.2.5.15.2 Elements

### 3.2.5.15.2.1 Register

This element specifies input values for the **RegisterResponse** operation. This element has no parameters.

```
<xs:element name="Register">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.15.2.2 RegisterResponse

This element specifies output values for the **RegisterResponse** operation. This element has no parameters.

```
<xs:element name="RegisterResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

## 3.2.5.16 IPCBackupServerProvider.GetClients

This operation returns the server's list of all clients.

```
<wsdl:operation name="GetClients">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClients"
message="tns:IPCBackupServerProvider GetClients InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsResponse"
message="tns:IPCBackupServerProvider_GetClients_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsSecurityAccessDeniedExcepti
onFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider GetClients SecurityAccessDeniedExceptionFault FaultMessa
ge" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider GetClients PCBackupServerFaultFault FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetClients\_InputMessage** request message, the protocol server generates list of all clients. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_GetClients\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.16.1 Messages

#### 3.2.5.16.1.1 IPCBackupServerProvider\_GetClients\_InputMessage

This is the request for the **GetClients** operation.

```
<wsdl:message name="IPCBackupServerProvider GetClients InputMessage">
  <wsdl:part name="parameters" element="tns:GetClients" />
</wsdl:message>
```



This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClients
```

The body of the SOAP message MUST contain the **GetClients** element.

### 3.2.5.16.1.2 IPCBackupServerProvider\_GetClients\_OutputMessage

This is the response for the **GetClients** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetClients_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClientsResponse
```

The body of the SOAP message MUST contain the **GetClientsResponse** element.

## 3.2.5.16.2 Elements

### 3.2.5.16.2.1 GetClients

This element specifies input values for the **GetClients** operation. This element has no parameters.

```
<xs:element name="GetClients">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.16.2.2 GetClientsResponse

This element specifies output values for the **GetClients** operation.

```
<xs:element name="GetClientsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetClientsResult" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q1:ArrayOfClientConfigurationInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetClientsResult:** An array of **ClientConfigurationInfo** (section [2.2.4.2.8](#)) complex types that contains the results of the attempt to get information about the specified clients.

## 3.2.5.17 IPCBackupServerProvider.GetClient

This operation returns the backup configuration information for a specific client.

```
<wsdl:operation name="GetClient">
```

```

    <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClient"
message="tns:IPCBackupServerProvider_GetClient_InputMessage" />
    <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientResponse"
message="tns:IPCBackupServerProvider_GetClient_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientSecurityAccessDeniedExceptio
nFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClient_SecurityAccessDeniedExceptionFault_FaultMessag
e" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClient_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_GetClient\_InputMessage** request message, the protocol server gets the backup client information of the client. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetClient\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.17.1 Messages

#### 3.2.5.17.1.1 IPCBackupServerProvider\_GetClient\_InputMessage

This is the request for the **GetClient** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetClient_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClient" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClient
```

The body of the SOAP message MUST contain the **GetClient** element.

#### 3.2.5.17.1.2 IPCBackupServerProvider\_GetClient\_OutputMessage

This is the response for the **GetClient** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetClient_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClientResponse
```

The body of the SOAP message MUST contain the **GetClientResponse** element.

### 3.2.5.17.2 Elements

#### 3.2.5.17.2.1 GetClient

This element specifies input values for the **GetClient** operation.

```
<xs:element name="GetClient">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.17.2.2 GetClientResponse

This element specifies output values for the **GetClient** operation.

```
<xs:element name="GetClientResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetClientResult" nillable="true"
        xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q2:ClientConfigurationInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetClientResult:** A **ClientConfigurationInfo** (section [2.2.4.2.8](#)) complex type that contains the result of the attempt to get information about the specified client.

### 3.2.5.18 IPCBackupServerProvider.GetClientJobs

This operation returns the list of up to 100 client jobs from the server's index.

```
<wsdl:operation name="GetClientJobs">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobs"
    message="tns:IPCBackupServerProvider_GetClientJobs_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsResponse"
    message="tns:IPCBackupServerProvider_GetClientJobs_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetClientJobs_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsPCBackupServerFaultFault" name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_GetClientJobs_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetClientJobs\_InputMessage** request message, the protocol server gets the list of the specified client jobs, or the first 100 if the list contains more than 100 jobs. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_GetClientJobs\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.18.1 Messages

##### 3.2.5.18.1.1 IPCBackupServerProvider\_GetClientJobs\_InputMessage

This is the request for the **GetClientJobs** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetClientJobs_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClientJobs" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClientJobs
```

The body of the SOAP message **MUST** contain the **GetClientJobs** element.

### 3.2.5.18.1.2 IPCBackupServerProvider\_GetClientJobs\_OutputMessage

This is the response for the **GetClientJobs** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetClientJobs_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientJobsResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClientJobsResponse
```

The body of the SOAP message **MUST** contain the **GetClientJobsResponse** element.

## 3.2.5.18.2 Elements

### 3.2.5.18.2.1 GetClientJobs

This element specifies input values for the **GetClientJobs** operation.

```
<xs:element name="GetClientJobs">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="index" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**index:** An integer that contains the index of the client.

### 3.2.5.18.2.2 GetClientJobsResponse

This element specifies output values for the **GetClientJobs** operation.

```
<xs:element name="GetClientJobsResponse">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="GetClientJobsResult" nillable="true"
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q3:ArrayOfClientJobInfo" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetClientJobsResult:** An array of **ClientJobInfo** (section [2.2.4.2.9](#)) complex types that contains the results of the attempt to get information about the specified client jobs.

### 3.2.5.19 IPCBackupServerProvider.GetVolumeJobs

This operation gets the list of all volume jobs.

```

<wsdl:operation name="GetVolumeJobs">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobs"
message="tns:IPCBackupServerProvider_GetVolumeJobs_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsResponse"
message="tns:IPCBackupServerProvider_GetVolumeJobs_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetVolumeJobs_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetVolumeJobs_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_GetVolumeJobs\_InputMessage** request message, the protocol server generates the list of all volume jobs. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetVolumeJobs\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.19.1 Messages

##### 3.2.5.19.1.1 IPCBackupServerProvider\_GetVolumeJobs\_InputMessage

This is the request for the **GetVolumeJobs** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetVolumeJobs_InputMessage">
  <wsdl:part name="parameters" element="tns:GetVolumeJobs" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetVolumeJobs
```

The body of the SOAP message MUST contain the **GetVolumeJobs** element.

##### 3.2.5.19.1.2 IPCBackupServerProvider\_GetVolumeJobs\_OutputMessage

This is the response for the **GetVolumeJobs** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetVolumeJobs_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetVolumeJobsResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsResponse
```

The body of the SOAP message MUST contain the **GetVolumeJobsResponse** element.

### 3.2.5.19.2 Elements

#### 3.2.5.19.2.1 GetVolumeJobs

This element specifies input values for the **GetVolumeJobs** operation.

```

<xs:element name="GetVolumeJobs">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="jobIndex" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**clientSid:** A string that contains the security identifier of the client.

**jobIndex:** An integer that contains the index of the job.

#### 3.2.5.19.2.2 GetVolumeJobsResponse

This element specifies output values for the **GetVolumeJobs** operation.

```

<xs:element name="GetVolumeJobsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVolumeJobsResult" nillable="true"
        xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q4:ArrayOfVolumeJobInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetVolumeJobsResult:** An array of **VolumeJobInfo** (section [2.2.4.2.19](#)) complex types that contains the result of the attempt to get volume jobs.

### 3.2.5.20 IPCBackupServerProvider.GetClientVolumes

This operation gets the list of all client volumes.

```

<wsdl:operation name="GetClientVolumes">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumes"
    message="tns:IPCBackupServerProvider_GetClientVolumes_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesResponse"
    message="tns:IPCBackupServerProvider_GetClientVolumes_OutputMessage" />
</wsdl:operation>

```

```

    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBakupServerProvider/GetClientVolumesSecurityAccessDeniedE
xceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBakupServerProvider_GetClientVolumes_SecurityAccessDeniedExceptionFault_Faul
tMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBakupServerProvider/GetClientVolumesPCBackupServerFaultFa
ult" name="PCBackupServerFaultFault"
message="tns:IPCBakupServerProvider_GetClientVolumes_PCBackupServerFaultFault_FaultMessage"
/>
</wsdl:operation>

```

Upon receiving the **IPCBakupServerProvider\_GetClientVolumes\_InputMessage** request message, the protocol server gets the list of all client volumes. Upon successful completion of the action, the server MUST respond with **IPCBakupServerProvider\_GetClientVolumes\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.20.1 Messages

#### 3.2.5.20.1.1 IPCBakupServerProvider\_GetClientVolumes\_InputMessage

This is the request for the **GetClientVolumes** operation.

```

<wsdl:message name="IPCBakupServerProvider_GetClientVolumes_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClientVolumes" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBakupServerProvider/GetClientVolumes
```

The body of the SOAP message MUST contain the **GetClientVolumes** element.

#### 3.2.5.20.1.2 IPCBakupServerProvider\_GetClientVolumes\_OutputMessage

This is the response for the **GetClientVolumes** operation.

```

<wsdl:message name="IPCBakupServerProvider_GetClientVolumes_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientVolumesResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBakupServerProvider/GetClientVolumesResponse
```

The body of the SOAP message MUST contain the **GetClientVolumesResponse** element.

### 3.2.5.20.2 Elements

#### 3.2.5.20.2.1 GetClientVolumes

This element specifies input values for the **GetClientVolumes** operation.

```

<xs:element name="GetClientVolumes">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.20.2.2 GetClientVolumesResponse

This element specifies output values for the **GetClientVolumes** operation.

```

<xs:element name="GetClientVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetClientVolumesResult" nillable="true"
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q5:ArrayOfClientVolumeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetClientVolumesResult:** An array of **ClientVolumeInfo** (section [2.2.4.2.11](#)) complex types that contains the result of the attempt to get client volumes.

### 3.2.5.21 IPCBackupServerProvider.SetClientJobDescription

This operation sets a description for a client job.

```

<wsdl:operation name="SetClientJobDescription">
  <wsdl:input
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescription"
message="tns:IPCBackupServerProvider_SetClientJobDescription_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionResponse"
message="tns:IPCBackupServerProvider_SetClientJobDescription_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetClientJobDescription_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetClientJobDescription_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_SetClientJobDescription\_InputMessage** request message, the protocol server sets the client job description. Upon successful completion of the action, the server MUST respond with

**IPCBackupServerProvider\_SetClientJobDescription\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.21.1 Messages

##### 3.2.5.21.1.1 IPCBackupServerProvider\_SetClientJobDescription\_InputMessage



This is the request for the **SetClientJobDescription** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetClientJobDescription_InputMessage">
  <wsdl:part name="parameters" element="tns:SetClientJobDescription" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetClientJobDescription
```

The body of the SOAP message MUST contain the **SetClientJobDescription** element.

### 3.2.5.21.1.2 IPCBackupServerProvider\_SetClientJobDescription\_OutputMessage

This is the response for the **SetClientJobDescription** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetClientJobDescription_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetClientJobDescriptionResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionResponse
```

The body of the SOAP message MUST contain the **SetClientJobDescriptionResponse** element.

### 3.2.5.21.2 Elements

#### 3.2.5.21.2.1 SetClientJobDescription

This element specifies input values for the **SetClientJobDescription** operation.

```
<xs:element name="SetClientJobDescription">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="clientJobIndex" type="xs:int" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**clientJobIndex:** An integer that contains the index of the client job.

**Description:** A string that contains the description of the client job.

#### 3.2.5.21.2.2 SetClientJobDescriptionResponse

This element specifies output values for the **SetClientJobDescription** operation. This element has no parameters.

```
<xs:element name="SetClientJobDescriptionResponse">
```

```

    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>

```

### 3.2.5.22 IPCBackupServerProvider.SetClientJobRetentionState

This operation sets the retention state for a client job.

```

<wsdl:operation name="SetClientJobRetentionState">
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionState"
    message="tns:IPCBackupServerProvider_SetClientJobRetentionState_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStateResponse"
    message="tns:IPCBackupServerProvider_SetClientJobRetentionState_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStateSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_SetClientJobRetentionState_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStatePCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_SetClientJobRetentionState_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_SetClientJobRetentionState\_InputMessage** request message, the protocol server gets the client job retention state. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_SetClientJobRetentionState\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.22.1 Messages

##### 3.2.5.22.1.1 IPCBackupServerProvider\_SetClientJobRetentionState\_InputMessage

This is the request for the **SetClientJobRetentionState** operation.

```

<wsdl:message name="IPCBackupServerProvider_SetClientJobRetentionState_InputMessage">
  <wsdl:part name="parameters" element="tns:SetClientJobRetentionState" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionState

```

The body of the SOAP message MUST contain the **SetClientJobRetentionState** element.

##### 3.2.5.22.1.2 IPCBackupServerProvider\_SetClientJobRetentionState\_OutputMessage

This is the response for the **SetClientJobRetentionState** operation.

```

<wsdl:message name="IPCBackupServerProvider_SetClientJobRetentionState_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetClientJobRetentionStateResponse" />

```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStateResponse
```

The body of the SOAP message MUST contain the **SetClientJobRetentionStateResponse** element.

### 3.2.5.22.2 Elements

#### 3.2.5.22.2.1 SetClientJobRetentionState

This element specifies input values for the **SetClientJobRetentionState** operation.

```
<xs:element name="SetClientJobRetentionState">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="clientJobIndex" type="xs:int" />
      <xs:element minOccurs="0" name="retentionState"
        xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q6:RetentionState" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**clientJobIndex:** An integer that contains the index of the client job.

**retentionState:** A **RetentionState** (section [2.2.5.2.16](#)) string that indicates the retention state of the client job.

#### 3.2.5.22.2.2 SetClientJobRetentionStateResponse

This element specifies output values for the **SetClientJobRetentionState** operation. This element has no parameters.

```
<xs:element name="SetClientJobRetentionStateResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.23 IPCBackupServerProvider.SetClientVolumeStatus

This operation sets the status of a client volume.

```
<wsdl:operation name="SetClientVolumeStatus">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatus"
    message="tns:IPCBackupServerProvider_SetClientVolumeStatus_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusResponse"
    message="tns:IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusPCBackupServerFa
```

```

ultFault" name="PCBackupServerFaultFault"
message="tns:IPBackupServerProvider SetClientVolumeStatus PCBackupServerFaultFault FaultMess
age" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPBackupServerProvider/SetClientVolumeStatusSecurityAccessDe
niedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPBackupServerProvider_SetClientVolumeStatus_SecurityAccessDeniedExceptionFault
FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPBackupServerProvider\_SetClientVolumeStatus\_InputMessage** request message, the protocol server sets the client volume status. Upon successful completion of the action, the server MUST respond with **IPBackupServerProvider\_SetClientVolumeStatus\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.23.1 Messages

#### 3.2.5.23.1.1 IPBackupServerProvider\_SetClientVolumeStatus\_InputMessage

This is the request for the **SetClientVolumeStatus** operation.

```

<wsdl:message name="IPBackupServerProvider_SetClientVolumeStatus_InputMessage">
  <wsdl:part name="parameters" element="tns:SetClientVolumeStatus" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPBackupServerProvider/SetClientVolumeStatus
```

The body of the SOAP message MUST contain the **SetClientVolumeStatus** element.

#### 3.2.5.23.1.2 IPBackupServerProvider\_SetClientVolumeStatus\_OutputMessage

This is the response for the **SetClientVolumeStatus** operation.

```

<wsdl:message name="IPBackupServerProvider_SetClientVolumeStatus_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetClientVolumeStatusResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPBackupServerProvider/SetClientVolumeStatusResponse
```

The body of the SOAP message MUST contain the **SetClientVolumeStatusResponse** element.

### 3.2.5.23.2 Elements

#### 3.2.5.23.2.1 SetClientVolumeStatus

This element specifies input values for the **SetClientVolumeStatus** operation.

```

<xs:element name="SetClientVolumeStatus">
  <xs:complexType>

```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="volumeGuid"
xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/" type="q7:guid" />
      <xs:element minOccurs="0" name="Status"
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q8:VolumeStatus" />
      <xs:element minOccurs="0" name="DeleteJobs" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**clientSid:** A string that contains the security identifier of the client.

**volumeGuid:** The GUID of the volume.

**Status:** A **VolumeStatus** (section [2.2.5.2.20](#)) value that contains the status of the volume.

**DeleteJobs:** A Boolean where TRUE indicates all volume jobs need to be deleted for the volume; otherwise, the value is FALSE.

### 3.2.5.23.2.2 SetClientVolumeStatusResponse

This element specifies output values for the **SetClientVolumeStatus** operation. This element has no parameters.

```

<xs:element name="SetClientVolumeStatusResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.2.5.24 IPCBackupServerProvider.SetExcludedFolders

This operation sets excluded folders.

```

<wsdl:operation name="SetExcludedFolders">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFolders"
message="tns:IPCBackupServerProvider_SetExcludedFolders_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersResponse"
message="tns:IPCBackupServerProvider_SetExcludedFolders_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersPCBackupServerFault
Fault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetExcludedFolders_PCBackupServerFaultFault_FaultMessage
" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetExcludedFolders_SecurityAccessDeniedExceptionFault_Fa
ultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_SetExcludedFolders\_InputMessage** request message, the protocol server sets the specified excluded folders. Upon successful completion of the action, the server MUST respond with

**IPCBackupServerProvider\_SetExcludedFolders\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.24.1 Messages

#### 3.2.5.24.1.1 IPCBackupServerProvider\_SetExcludedFolders\_InputMessage

This is the request for the **SetExcludedFolders** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetExcludedFolders_InputMessage">
  <wsdl:part name="parameters" element="tns:SetExcludedFolders" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetExcludedFolders
```

The body of the SOAP message MUST contain the **SetExcludedFolders** element.

#### 3.2.5.24.1.2 IPCBackupServerProvider\_SetExcludedFolders\_OutputMessage

This is the response for the **SetExcludedFolders** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetExcludedFolders_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetExcludedFoldersResponse" />
</wsdl:message>
This message MUST be sent with the following SOAP action.
http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersResponse
The body of the SOAP message MUST contain the SetExcludedFoldersResponse element.
```

### 3.2.5.24.2 Elements

#### 3.2.5.24.2.1 SetExcludedFolders

This element specifies input values for the **SetExcludedFolders** operation.

```
<xs:element name="SetExcludedFolders">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="volumeGuid"
        xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/" type="q9:guid" />
      <xs:element minOccurs="0" name="excludedFolders" nillable="true"
        xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q10:ArrayOfstring" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**volumeGuid:** The GUID of the volume.

**excludedFolders:** An array of string values that indicates the folders that should be excluded.

#### 3.2.5.24.2.2 SetExcludedFoldersResponse

This element specifies output values for the **SetExcludedFolders** operation. This element has no parameters.

```

<xs:element name="SetExcludedFoldersResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.2.5.25 IPCBackupServerProvider.EnableBackups

This operation enables backups on a client.

```

<wsdl:operation name="EnableBackups">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackups"
  message="tns:IPCBackupServerProvider_EnableBackups_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsResponse"
  message="tns:IPCBackupServerProvider_EnableBackups_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsSecurityAccessDeniedExce
  ptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_EnableBackups_SecurityAccessDeniedExceptionFault_FaultMe
  ssage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsPCBackupServerFaultFault
  " name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_EnableBackups_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_EnableBackups\_InputMessage** request message, the protocol server enables backups on a client. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_EnableBackups\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.25.1 Messages

##### 3.2.5.25.1.1 IPCBackupServerProvider\_EnableBackups\_InputMessage

This is the request for the **EnableBackups** operation.

```

<wsdl:message name="IPCBackupServerProvider_EnableBackups_InputMessage">
  <wsdl:part name="parameters" element="tns:EnableBackups" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/EnableBackups
```

The body of the SOAP message **MUST** contain the **EnableBackups** element.

##### 3.2.5.25.1.2 IPCBackupServerProvider\_EnableBackups\_OutputMessage

This is the response for the **EnableBackups** operation.

```

<wsdl:message name="IPCBackupServerProvider_EnableBackups_OutputMessage">
  <wsdl:part name="parameters" element="tns:EnableBackupsResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/EnableBackupsResponse
```

The body of the SOAP message MUST contain the **EnableBackupsResponse** element.

### 3.2.5.25.2 Elements

#### 3.2.5.25.2.1 EnableBackups

This element specifies input values for the **EnableBackups** operation.

```
<xs:element name="EnableBackups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid**: A string that contains the security identifier of the client.

#### 3.2.5.25.2.2 EnableBackupsResponse

This element specifies output values for the **EnableBackups** operation. This element has no parameters.

```
<xs:element name="EnableBackupsResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.26 IPCBackupServerProvider.DisableBackups

This operation disables backups on a client.

```
<wsdl:operation name="DisableBackups">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackups"
message="tns:IPCBackupServerProvider_DisableBackups_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsResponse"
message="tns:IPCBackupServerProvider_DisableBackups_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsSecurityAccessDeniedExc
eptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_DisableBackups_SecurityAccessDeniedExceptionFault_FaultM
essage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsPCBackupServerFaultFaul
t" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_DisableBackups_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_DisableBackups\_InputMessage** request message, the protocol server disables backups on a client. Upon successful completion of the action, the server



MUST respond with **IPCBackupServerProvider\_DisableBackups\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.26.1 Messages

#### 3.2.5.26.1.1 IPCBackupServerProvider\_DisableBackups\_InputMessage

This is the request for the **DisableBackups** operation.

```
<wsdl:message name="IPCBackupServerProvider_DisableBackups_InputMessage">
  <wsdl:part name="parameters" element="tns:DisableBackups" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/DisableBackups
```

The body of the SOAP message MUST contain the **DisableBackups** element.

#### 3.2.5.26.1.2 IPCBackupServerProvider\_DisableBackups\_OutputMessage

This is the response for the **DisableBackups** operation.

```
<wsdl:message name="IPCBackupServerProvider_DisableBackups_OutputMessage">
  <wsdl:part name="parameters" element="tns:DisableBackupsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/DisableBackupsResponse
```

The body of the SOAP message MUST contain the **DisableBackupsResponse** element.

### 3.2.5.26.2 Elements

#### 3.2.5.26.2.1 DisableBackups

This element specifies input values for the **DisableBackups** operation.

```
<xs:element name="DisableBackups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="deleteAllJobs" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid**: A string that contains the security identifier of the client.

**deleteAllJobs**: A Boolean where TRUE indicates that all volume jobs for the identified client need to be deleted from the volume; otherwise, the value is FALSE.

#### 3.2.5.26.2.2 DisableBackupsResponse

This element specifies output values for the **DisableBackups** operation. This element has no parameters.

```
<xs:element name="DisableBackupsResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.27 IPCBackupServerProvider.GetBackupConfiguration

This operation returns a system-wide backup configuration, such as backup window and cleanup schedule.

```
<wsdl:operation name="GetBackupConfiguration">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfiguration"
  message="tns:IPCBackupServerProvider_GetBackupConfiguration_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationResponse"
  message="tns:IPCBackupServerProvider_GetBackupConfiguration_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationPCBackupServerF
  aultFault" name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_GetBackupConfiguration_PCBackupServerFaultFault_FaultMes
  sage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationSecurityAccessD
  eniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_GetBackupConfiguration_SecurityAccessDeniedExceptionFaul
  t_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetBackupConfiguration\_InputMessage** request message, the protocol server gets the system wide backup configuration. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetBackupConfiguration\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.27.1 Messages

##### 3.2.5.27.1.1 IPCBackupServerProvider\_GetBackupConfiguration\_InputMessage

This is the request for the **GetBackupConfiguration** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetBackupConfiguration_InputMessage">
  <wsdl:part name="parameters" element="tns:GetBackupConfiguration" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetBackupConfiguration
```

The body of the SOAP message MUST contain the **GetBackupConfiguration** element.

##### 3.2.5.27.1.2 IPCBackupServerProvider\_GetBackupConfiguration\_OutputMessage

This is the response for the **GetBackupConfiguration** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetBackupConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetBackupConfigurationResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationResponse
```

The body of the SOAP message MUST contain the **GetBackupConfigurationResponse** element.

### 3.2.5.27.2 Elements

#### 3.2.5.27.2.1 GetBackupConfiguration

This element specifies input values for the **GetBackupConfiguration** operation. This element has no parameters.

```
<xs:element name="GetBackupConfiguration">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.27.2.2 GetBackupConfigurationResponse

This element specifies output values for the **GetBackupConfiguration** operation.

```
<xs:element name="GetBackupConfigurationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBackupConfigurationResult" nillable="true"
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q1:PCBackupConfiguration" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBackupConfigurationResult:** A **PCBackupConfiguration** (section [2.2.4.2.3](#)) complex type that contains the result of the attempt to get the backup configuration.

### 3.2.5.28 IPCBackupServerProvider.GetDefaultBackupConfiguration

This operation returns the default backup configuration settings, such as for backup window and cleanup schedule.

```
<wsdl:operation name="GetDefaultBackupConfiguration">
  <wsdl:input>
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfiguration"
    message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_InputMessage" />
  <wsdl:output>
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationResponse"
    message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_OutputMessage" />
  <wsdl:fault>
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationSecurity
```

```

AccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_SecurityAccessDeniedExcept
ionFault_FaultMessage" />
<wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationPCBackup
ServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_PCBackupServerFaultFault_F
aultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_GetDefaultBackupConfiguration\_InputMessage** request message, the protocol server gets the default backup configuration. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetDefaultBackupConfiguration\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.28.1 Messages

#### 3.2.5.28.1.1 IPCBackupServerProvider\_GetDefaultBackupConfiguration\_InputMessage

This is the request for the **GetDefaultBackupConfiguration** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetDefaultBackupConfiguration_InputMessage">
<wsdl:part name="parameters" element="tns:GetDefaultBackupConfiguration" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfiguration

```

The body of the SOAP message MUST contain the **GetDefaultBackupConfiguration** element.

#### 3.2.5.28.1.2 IPCBackupServerProvider\_GetDefaultBackupConfiguration\_OutputMessage

This is the response for the **GetDefaultBackupConfiguration** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetDefaultBackupConfiguration_OutputMessage">
<wsdl:part name="parameters" element="tns:GetDefaultBackupConfigurationResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationResponse

```

The body of the SOAP message MUST contain the **GetDefaultBackupConfigurationResponse** element.

### 3.2.5.28.2 Elements

#### 3.2.5.28.2.1 GetDefaultBackupConfiguration

This element specifies input values for the **GetDefaultBackupConfiguration** operation. This element has no parameters.

```
<xs:element name="GetDefaultBackupConfiguration">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.28.2.2 GetDefaultBackupConfigurationResponse

This element specifies output values for the **GetDefaultBackupConfiguration** operation.

```
<xs:element name="GetDefaultBackupConfigurationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDefaultBackupConfigurationResult" nillable="true"
        xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q12:PCBackupConfiguration" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDefaultBackupConfigurationResult:** A **PCBackupConfiguration** (section [2.2.4.2.3](#)) complex type that contains the result of the attempt to get the default backup configuration.

### 3.2.5.29 IPCBackupServerProvider.GetBackupOperationStatus

This operation gets the status of a backup operation.

```
<wsdl:operation name="GetBackupOperationStatus">
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatus"
    message="tns:IPCBackupServerProvider_GetBackupOperationStatus_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusResponse"
    message="tns:IPCBackupServerProvider_GetBackupOperationStatus_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetBackupOperationStatus_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusPCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_GetBackupOperationStatus_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetBackupOperationStatus\_InputMessage** request message, the protocol server gets the backup operation status. Upon successful completion of the action, the server MUST respond with

**IPCBackupServerProvider\_GetBackupOperationStatus\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.29.1 Messages

##### 3.2.5.29.1.1 IPCBackupServerProvider\_GetBackupOperationStatus\_InputMessage

This is the request for the **GetBackupOperationStatus** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetBackupOperationStatus_InputMessage">
  <wsdl:part name="parameters" element="tns:GetBackupOperationStatus" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatus
```

The body of the SOAP message **MUST** contain the **GetBackupOperationStatus** element.

### 3.2.5.29.1.2 IPCBackupServerProvider\_GetBackupOperationStatus\_OutputMessage

This is the response for the **GetBackupOperationStatus** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetBackupOperationStatus_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetBackupOperationStatusResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusResponse
```

The body of the SOAP message **MUST** contain the **GetBackupOperationStatusResponse** element.

## 3.2.5.29.2 Elements

### 3.2.5.29.2.1 GetBackupOperationStatus

This element specifies input values for the **GetBackupOperationStatus** operation. This element has no parameters.

```
<xs:element name="GetBackupOperationStatus">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.29.2.2 GetBackupOperationStatusResponse

This element specifies output values for the **GetBackupOperationStatus** operation.

```
<xs:element name="GetBackupOperationStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBackupOperationStatusResult" nillable="true"
xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q13:OperationStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

### 3.2.5.30 IPCBackupServerProvider.GetServiceStatus

This operation gets the status of the backup service.

```
<wsdl:operation name="GetServiceStatus">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatus"
  message="tns:IPCBackupServerProvider_GetServiceStatus_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusResponse"
  message="tns:IPCBackupServerProvider_GetServiceStatus_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusSecurityAccessDeniedE
  xceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_GetServiceStatus_SecurityAccessDeniedExceptionFault_Faul
  tMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusPCBackupServerFaultFa
  ult" name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_GetServiceStatus_PCBackupServerFaultFault_FaultMessage"
  />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetServiceStatus\_InputMessage** request message, the protocol server gets the backup service status. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetServiceStatus\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.30.1 Messages

##### 3.2.5.30.1.1 IPCBackupServerProvider\_GetServiceStatus\_InputMessage

This is the request for the **GetServiceStatus** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetServiceStatus_InputMessage">
  <wsdl:part name="parameters" element="tns:GetServiceStatus" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetServiceStatus
```

The body of the SOAP message MUST contain the **GetServiceStatus** element.

##### 3.2.5.30.1.2 IPCBackupServerProvider\_GetServiceStatus\_OutputMessage

This is the response for the **GetServiceStatus** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetServiceStatus_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetServiceStatusResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetServiceStatusResponse
```

The body of the SOAP message MUST contain the **GetServiceStatusResponse** element.

### 3.2.5.30.2 Elements

#### 3.2.5.30.2.1 GetServiceStatus

This element specifies input values for the **GetServiceStatus** operation. This element has no parameters.

```
<xs:element name="GetServiceStatus">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.30.2.2 GetServiceStatusResponse

This element specifies output values for the **GetServiceStatus** operation.

```
<xs:element name="GetServiceStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetServiceStatusResult" nillable="true"
        xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q14:ServiceStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetServiceStatusResult: A ServiceStatusResponse** (section [2.2.4.2.18](#)) value that contains the result of getting the service status.

### 3.2.5.31 IPCBackupServerProvider.GetWaitingOperations

This operation returns a list of pending operations.

```
<wsdl:operation name="GetWaitingOperations">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperations"
    message="tns:IPCBackupServerProvider_GetWaitingOperations_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsResponse"
    message="tns:IPCBackupServerProvider_GetWaitingOperations_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetWaitingOperations_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsPCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_GetWaitingOperations_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetWaitingOperations\_InputMessage** request message, the protocol server gets the list of pending operations. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetWaitingOperations\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).



### 3.2.5.31.1 Messages

#### 3.2.5.31.1.1 IPCBackupServerProvider\_GetWaitingOperations\_InputMessage

This is the request for the **GetWaitingOperations** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetWaitingOperations_InputMessage">
  <wsdl:part name="parameters" element="tns:GetWaitingOperations" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetWaitingOperations
```

The body of the SOAP message MUST contain the **GetWaitingOperations** element.

#### 3.2.5.31.1.2 IPCBackupServerProvider\_GetWaitingOperations\_OutputMessage

This is the response for the **GetWaitingOperations** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetWaitingOperations_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetWaitingOperationsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsResponse
```

The body of the SOAP message MUST contain the **GetWaitingOperationsResponse** element.

### 3.2.5.31.2 Elements

#### 3.2.5.31.2.1 GetWaitingOperations

This element specifies input values for the **GetWaitingOperations** operation. This element has no parameters.

```
<xs:element name="GetWaitingOperations">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.31.2.2 GetWaitingOperationsResponse

This element specifies output values for the **GetWaitingOperations** operation.

```
<xs:element name="GetWaitingOperationsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetWaitingOperationsResult" nillable="true"
xmlns:q15="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q15:ArrayOfWaitingOperation" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**GetWaitingOperationsResult:** An array of **WaitingOperation** (section [2.2.4.2.20](#)) complex types that contains the result of the waiting operation.

### 3.2.5.32 IPCBackupServerProvider.SetBackupConfiguration

This operation sets system-wide backup configurations.

```
<wsdl:operation name="SetBackupConfiguration">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfiguration"
  message="tns:IPCBackupServerProvider_SetBackupConfiguration_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationResponse"
  message="tns:IPCBackupServerProvider_SetBackupConfiguration_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationSecurityAccessD
  eniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_SetBackupConfiguration_SecurityAccessDeniedExceptionFaul
  t FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationPCBackupServerF
  aultFault" name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_SetBackupConfiguration_PCBackupServerFaultFault_FaultMes
  sage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_SetBackupConfiguration\_InputMessage** request message, the protocol server sets the system-wide backup configurations. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_SetBackupConfiguration\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.32.1 Messages

##### 3.2.5.32.1.1 IPCBackupServerProvider\_SetBackupConfiguration\_InputMessage

This is the request for the **SetBackupConfiguration** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetBackupConfiguration_InputMessage">
  <wsdl:part name="parameters" element="tns:SetBackupConfiguration" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetBackupConfiguration
```

The body of the SOAP message MUST contain the **SetBackupConfiguration** element.

##### 3.2.5.32.1.2 IPCBackupServerProvider\_SetBackupConfiguration\_OutputMessage

This is the response for the **SetBackupConfiguration** operation.

```
<wsdl:message name="IPCBackupServerProvider_SetBackupConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetBackupConfigurationResponse" />
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationResponse
```

The body of the SOAP message MUST contain the **SetBackupConfigurationResponse** element.

### 3.2.5.32.2 Elements

#### 3.2.5.32.2.1 SetBackupConfiguration

This element specifies input values for the **SetBackupConfiguration** operation.

```
<xs:element name="SetBackupConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="backupConfig" nillable="true"
        xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q16:PCBackupConfiguration" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**backupConfig:** A **PCBackupConfiguration** (section [2.2.4.2.3](#)) complex type that contains the backup configuration details.

#### 3.2.5.32.2.2 SetBackupConfigurationResponse

This element specifies output values for the **SetBackupConfiguration** operation. This element has no parameters.

```
<xs:element name="SetBackupConfigurationResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.33 IPCBackupServerProvider.GetUsedBytes

This operation returns the total number of bytes used for all backups.

```
<wsdl:operation name="GetUsedBytes">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytes"
    message="tns:IPCBackupServerProvider_GetUsedBytes_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesResponse"
    message="tns:IPCBackupServerProvider_GetUsedBytes_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesPCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_GetUsedBytes_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetUsedBytes_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>
```

```
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetUsedBytes\_InputMessage** request message, the protocol server returns the total number of bytes used for all backups. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetUsedBytes\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.33.1 Messages

#### 3.2.5.33.1.1 IPCBackupServerProvider\_GetUsedBytes\_InputMessage

This is the request for the **GetUsedBytes** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetUsedBytes_InputMessage">
  <wsdl:part name="parameters" element="tns:GetUsedBytes" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetUsedBytes
```

The body of the SOAP message MUST contain the **GetUsedBytes** element.

#### 3.2.5.33.1.2 IPCBackupServerProvider\_GetUsedBytes\_OutputMessage

This is the response for the **GetUsedBytes** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetUsedBytes_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetUsedBytesResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetUsedBytesResponse
```

The body of the SOAP message MUST contain the **GetUsedBytesResponse** element.

### 3.2.5.33.2 Elements

#### 3.2.5.33.2.1 GetUsedBytes

This element specifies input values for the **GetUsedBytes** operation. This element has no parameters.

```
<xs:element name="GetUsedBytes">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.33.2.2 GetUsedBytesResponse

This element specifies output values for the **GetUsedBytes** operation.

```
<xs:element name="GetUsedBytesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetUsedBytesResult" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetUsedBytesResult:** A long integer that contains the number of bytes used by the backup.

### 3.2.5.34 IPCBackupServerProvider.StartCleanup

This operation starts the cleanup operation.

```
<wsdl:operation name="StartCleanup">
  <wsdl:input wsam:Action="http://tempuri.org/IPBackupServerProvider/StartCleanup"
  message="tns:IPCBackupServerProvider_StartCleanup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPBackupServerProvider/StartCleanupResponse"
  message="tns:IPCBackupServerProvider_StartCleanup_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPBackupServerProvider/StartCleanupPCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_StartCleanup_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPBackupServerProvider/StartCleanupSecurityAccessDeniedExceptionFault"
  name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_StartCleanup_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_StartCleanup\_InputMessage** request message, the protocol server starts the cleanup operation. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_StartCleanup\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.34.1 Messages

##### 3.2.5.34.1.1 IPCBackupServerProvider\_StartCleanup\_InputMessage

This is the request for the **StartCleanup** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartCleanup_InputMessage">
  <wsdl:part name="parameters" element="tns:StartCleanup" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPBackupServerProvider/StartCleanup
```

The body of the SOAP message **MUST** contain the **StartCleanup** element.

##### 3.2.5.34.1.2 IPCBackupServerProvider\_StartCleanup\_OutputMessage

This is the response for the **StartCleanup** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartCleanup_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartCleanupResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartCleanupResponse
```

The body of the SOAP message **MUST** contain the `StartCleanupResponse` element.

### 3.2.5.34.2 Elements

#### 3.2.5.34.2.1 StartCleanup

This element specifies input values for the **StartCleanup** operation. This element has no parameters.

```
<xs:element name="StartCleanup">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.34.2.2 StartCleanupResponse

This element specifies output values for the **StartCleanup** operation. This element has no parameters.

```
<xs:element name="StartCleanupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.35 IPCBackupServerProvider.CancelCleanup

This operation cancels the cleanup operation.

```
<wsdl:operation name="CancelCleanup">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanup"
  message="tns:IPCBackupServerProvider_CancelCleanup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupResponse"
  message="tns:IPCBackupServerProvider_CancelCleanup_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupPCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_CancelCleanup_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupSecurityAccessDeniedExceptionFault"
  name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_CancelCleanup_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CancelCleanup\_InputMessage** request message, the protocol server cancels the cleanup operation. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_CancelCleanup\_OutputMessage**. In the

event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.35.1 Messages

#### 3.2.5.35.1.1 IPCBackupServerProvider\_CancelCleanup\_InputMessage

This is the request for the **CancelCleanup** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelCleanup_InputMessage">
  <wsdl:part name="parameters" element="tns:CancelCleanup" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelCleanup
```

The body of the SOAP message MUST contain the **CancelCleanup** element.

#### 3.2.5.35.1.2 IPCBackupServerProvider\_CancelCleanup\_OutputMessage

This is the response for the **CancelCleanup** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelCleanup_OutputMessage">
  <wsdl:part name="parameters" element="tns:CancelCleanupResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelCleanupResponse
```

The body of the SOAP message MUST contain the **CancelCleanupResponse** element.

### 3.2.5.35.2 Elements

#### 3.2.5.35.2.1 CancelCleanup

This element specifies input values for the **CancelCleanup** operation. This element has no parameters.

```
<xs:element name="CancelCleanup">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.35.2.2 CancelCleanupResponse

This element specifies output values for the **CancelCleanup** operation. This element has no parameters.

```
<xs:element name="CancelCleanupResponse">
  <xs:complexType>
```

```

    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.2.5.36 IPCBackupServerProvider.StartRepair

This operation starts the repair operation.

```

<wsdl:operation name="StartRepair">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartRepair"
message="tns:IPCBackupServerProvider_StartRepair_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairResponse"
message="tns:IPCBackupServerProvider_StartRepair_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_StartRepair_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairSecurityAccessDeniedExcept
ionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_StartRepair_SecurityAccessDeniedExceptionFault_FaultMess
age" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_StartRepair\_InputMessage** request message, the protocol server starts the repair operation. Upon successful completion of the action, the server MUST respond with the **IPCBackupServerProvider\_StartRepair\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.36.1 Messages

##### 3.2.5.36.1.1 IPCBackupServerProvider\_StartRepair\_InputMessage

This is the request for the **StartRepair** operation.

```

<wsdl:message name="IPCBackupServerProvider_StartRepair_InputMessage">
  <wsdl:part name="parameters" element="tns:StartRepair" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IPCBackupServerProvider/StartRepair

```

The body of the SOAP message MUST contain the **StartRepair** element.

##### 3.2.5.36.1.2 IPCBackupServerProvider\_StartRepair\_OutputMessage

This is the response for the **StartRepair** operation.

```

<wsdl:message name="IPCBackupServerProvider_StartRepair_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartRepairResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.



<http://tempuri.org/IPCBackupServerProvider/StartRepairResponse>

The body of the SOAP message MUST contain the **StartRepairResponse** element.

### 3.2.5.36.2 Elements

#### 3.2.5.36.2.1 StartRepair

This element specifies input values for the **StartRepair** operation. This element has no parameters.

```
<xs:element name="StartRepair">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.36.2.2 StartRepairResponse

This element specifies output values for the **StartRepair** operation. This element has no parameters.

```
<xs:element name="StartRepairResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.37 IPCBackupServerProvider.CancelRepair

This operation cancels the repair operation.

```
<wsdl:operation name="CancelRepair">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepair"
message="tns:IPCBackupServerProvider_CancelRepair_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairResponse"
message="tns:IPCBackupServerProvider_CancelRepair_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CancelRepair_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelRepair_SecurityAccessDeniedExceptionFault_FaultMes
sage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CancelRepair\_InputMessage** request message, the protocol server cancels the repair operation. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_CancelRepair\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.37.1 Messages

##### 3.2.5.37.1.1 IPCBackupServerProvider\_CancelRepair\_InputMessage

This is the request for the **CancelRepair** operation.

```
<wsdl:message name="IPCBackupServerProvider CancelRepair InputMessage">
  <wsdl:part name="parameters" element="tns:CancelRepair" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelRepair
```

The body of the SOAP message MUST contain the **CancelRepair** element.

### 3.2.5.37.1.2 IPCBackupServerProvider\_CancelRepair\_OutputMessage

This is the response for the **CancelRepair** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelRepair_OutputMessage">
  <wsdl:part name="parameters" element="tns:CancelRepairResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelRepairResponse
```

The body of the SOAP message MUST contain the **CancelRepairResponse** element.

## 3.2.5.37.2 Elements

### 3.2.5.37.2.1 CancelRepair

This element specifies input values for the **CancelRepair** operation. This element has no parameters.

```
<xs:element name="CancelRepair">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.37.2.2 CancelRepairResponse

This element specifies output values for the **CancelRepair** operation. This element has no parameters.

```
<xs:element name="CancelRepairResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

## 3.2.5.38 IPCBackupServerProvider.GetLastRepairResult

This operation gets the most recent repair result.

```
<wsdl:operation name="GetLastRepairResult">
```

```

    <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResult"
    message="tns:IPCBackupServerProvider_GetLastRepairResult_InputMessage" />
    <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultResponse"
    message="tns:IPCBackupServerProvider_GetLastRepairResult_OutputMessage" />
    <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultSecurityAccessDeni
    edExceptionFault" name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetLastRepairResult_SecurityAccessDeniedExceptionFault_F
    aultMessage" />
    <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultPCBackupServerFaul
    tFault" name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_GetLastRepairResult_PCBackupServerFaultFault_FaultMessag
    e" />
  </wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_GetLastRepairResult\_InputMessage** request message, the protocol server gets the most recent repair result. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetLastRepairResult\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.38.1 Messages

#### 3.2.5.38.1.1 IPCBackupServerProvider\_GetLastRepairResult\_InputMessage

This is the request for the **GetLastRepairResult** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetLastRepairResult_InputMessage">
  <wsdl:part name="parameters" element="tns:GetLastRepairResult" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetLastRepairResult
```

The body of the SOAP message MUST contain the **GetLastRepairResult** element.

#### 3.2.5.38.1.2 IPCBackupServerProvider\_GetLastRepairResult\_OutputMessage

This is the response for the **GetLastRepairResult** operation.

```

<wsdl:message name="IPCBackupServerProvider_GetLastRepairResult_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetLastRepairResultResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultResponse
```

The body of the SOAP message MUST contain the **GetLastRepairResultResponse** element.

### 3.2.5.38.2 Elements

### 3.2.5.38.2.1 GetLastRepairResult

This element specifies input values for the **GetLastRepairResult** operation. This element has no parameters.

```
<xs:element name="GetLastRepairResult">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.38.2.2 GetLastRepairResultResponse

This element specifies output values for the **GetLastRepairResult** operation.

```
<xs:element name="GetLastRepairResultResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLastRepairResultResult" nillable="true"
        xmlns:ql7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="ql7:RepairResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLastRepairResultResult: A RepairResult** (section [2.2.4.2.21](#)) complex type that contains the last repair result.

### 3.2.5.39 IPCBackupServerProvider.StartConsistencyChecker

This operation starts the consistency checking operation.

```
<wsdl:operation name="StartConsistencyChecker">
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyChecker"
    message="tns:IPCBackupServerProvider_StartConsistencyChecker_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerResponse"
    message="tns:IPCBackupServerProvider_StartConsistencyChecker_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerPCBackupServerFaultFault" name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_StartConsistencyChecker_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_StartConsistencyChecker_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_StartConsistencyChecker\_InputMessage** request message, the protocol server starts the consistency checking operation. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_StartConsistencyChecker\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.39.1 Messages

### 3.2.5.39.1.1 IPCBackupServerProvider\_StartConsistencyChecker\_InputMessage

This is the request for the **StartConsistencyChecker** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartConsistencyChecker_InputMessage">
  <wsdl:part name="parameters" element="tns:StartConsistencyChecker" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartConsistencyChecker
```

The body of the SOAP message MUST contain the **StartConsistencyChecker** element.

### 3.2.5.39.1.2 IPCBackupServerProvider\_StartConsistencyChecker\_OutputMessage

This is the response for the **StartConsistencyChecker** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartConsistencyChecker_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartConsistencyCheckerResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerResponse
```

The body of the SOAP message MUST contain the **StartConsistencyCheckerResponse** element.

## 3.2.5.39.2 Elements

### 3.2.5.39.2.1 StartConsistencyChecker

This element specifies input values for the **StartConsistencyChecker** operation.

```
<xs:element name="StartConsistencyChecker">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="fPreempt" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**fPreempt:** A Boolean where TRUE indicates that the existing operation will be preempted; otherwise, the value is FALSE.

### 3.2.5.39.2.2 StartConsistencyCheckerResponse

This element specifies output values for the **StartConsistencyChecker** operation. This element has no parameters.

```
<xs:element name="StartConsistencyCheckerResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
```

```
</xs:element>
```

### 3.2.5.40 IPCBackupServerProvider.CancelConsistencyChecker

This operation cancels the consistency checking operation.

```
<wsdl:operation name="CancelConsistencyChecker">
  <wsdl:input
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyChecker"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerResponse"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CancelConsistencyChecker\_InputMessage** request message, the protocol server cancels the consistency checking operation. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_CancelConsistencyChecker\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.40.1 Messages

##### 3.2.5.40.1.1 IPCBackupServerProvider\_CancelConsistencyChecker\_InputMessage

This is the request for the **CancelConsistencyChecker** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelConsistencyChecker_InputMessage">
  <wsdl:part name="parameters" element="tns:CancelConsistencyChecker" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelConsistencyChecker
```

The body of the SOAP message **MUST** contain the **CancelConsistencyChecker** element.

##### 3.2.5.40.1.2 IPCBackupServerProvider\_CancelConsistencyChecker\_OutputMessage

This is the response for the **CancelConsistencyChecker** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelConsistencyChecker_OutputMessage">
  <wsdl:part name="parameters" element="tns:CancelConsistencyCheckerResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerResponse
```

The body of the SOAP message MUST contain the **CancelConsistencyCheckerResponse** element.

### 3.2.5.40.2 Elements

#### 3.2.5.40.2.1 CancelConsistencyChecker

This element specifies input values for the **CancelConsistencyChecker** operation. This element has no parameters.

```
<xs:element name="CancelConsistencyChecker">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.40.2.2 CancelConsistencyCheckerResponse

This element specifies output values for the **CancelConsistencyChecker** operation. This element has no parameters.

```
<xs:element name="CancelConsistencyCheckerResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.41 IPCBackupServerProvider.Remove

This operation removes a specific client.

```
<wsdl:operation name="Remove">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/Remove"
  message="tns:IPCBackupServerProvider Remove InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/RemoveResponse"
  message="tns:IPCBackupServerProvider_Remove_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/RemoveSecurityAccessDeniedExceptionFault"
  name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider Remove SecurityAccessDeniedExceptionFault FaultMessage"
  />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/RemovePCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider Remove PCBackupServerFaultFault FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_Remove\_InputMessage** request message, the protocol server removes the specified client. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_Remove\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.41.1 Messages

### 3.2.5.41.1.1 IPCBackupServerProvider\_Remove\_InputMessage

This is the request for the **Remove** operation.

```
<wsdl:message name="IPCBackupServerProvider_Remove_InputMessage">
  <wsdl:part name="parameters" element="tns:Remove" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/Remove
```

The body of the SOAP message MUST contain the **Remove** element.

### 3.2.5.41.1.2 IPCBackupServerProvider\_Remove\_OutputMessage

This is the response for the **Remove** operation.

```
<wsdl:message name="IPCBackupServerProvider_Remove_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/RemoveResponse
```

The body of the SOAP message MUST contain the **RemoveResponse** element.

## 3.2.5.41.2 Elements

### 3.2.5.41.2.1 Remove

This element specifies input values for the **Remove** operation.

```
<xs:element name="Remove">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.41.2.2 RemoveResponse

This element specifies output values for the **Remove** operation. This element has no parameters.

```
<xs:element name="RemoveResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```



### 3.2.5.42 IPCBackupServerProvider.CalculateVolumeAsync

This operation calculates the specific volume.

```
<wsdl:operation name="CalculateVolumeAsync">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsync"
message="tns:IPCBackupServerProvider CalculateVolumeAsync InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncResponse"
message="tns:IPCBackupServerProvider_CalculateVolumeAsync_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncSecurityAccessDen
iedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CalculateVolumeAsync_SecurityAccessDeniedExceptionFault_
FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncPCBackupServerFau
ltFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider CalculateVolumeAsync PCBackupServerFaultFault FaultMessa
ge" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CalculateVolumeAsync\_InputMessage** request message, the protocol server calculates the specific volume. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_CalculateVolumeAsync\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.42.1 Messages

##### 3.2.5.42.1.1 IPCBackupServerProvider\_CalculateVolumeAsync\_InputMessage

This is the request for the **CalculateVolumeAsync** operation.

```
<wsdl:message name="IPCBackupServerProvider_CalculateVolumeAsync_InputMessage">
  <wsdl:part name="parameters" element="tns:CalculateVolumeAsync" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsync
```

The body of the SOAP message MUST contain the **CalculateVolumeAsync** element.

##### 3.2.5.42.1.2 IPCBackupServerProvider\_CalculateVolumeAsync\_OutputMessage

This is the response for the **CalculateVolumeAsync** operation.

```
<wsdl:message name="IPCBackupServerProvider CalculateVolumeAsync OutputMessage">
  <wsdl:part name="parameters" element="tns:CalculateVolumeAsyncResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncResponse
```

The body of the SOAP message MUST contain the **CalculateVolumeAsyncResponse** element.

### 3.2.5.42.2 Elements

#### 3.2.5.42.2.1 CalculateVolumeAsync

This element specifies input values for the **CalculateVolumeAsync** operation.

```
<xs:element name="CalculateVolumeAsync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="volumeGuid"
xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/" type="q18:guid" />
      <xs:element minOccurs="0" name="excludedFolders" nillable="true"
xmlns:q19="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q19:ArrayOfstring" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**volumeGuid:** The GUID of the volume.

**excludedFolders:** An array of string values that contains the folder that should be excluded.

#### 3.2.5.42.2.2 CalculateVolumeAsyncResponse

This element specifies output values for the **CalculateVolumeAsync** operation.

```
<xs:element name="CalculateVolumeAsyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CalculateVolumeAsyncResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**CalculateVolumeAsyncResult:** A Boolean where TRUE indicates that the calculation has successfully started; otherwise, the value is FALSE.

### 3.2.5.43 IPCBackupServerProvider.GetFolderChildren

This operation gets the children of specified folder.

```
<wsdl:operation name="GetFolderChildren">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildren"
message="tns:IPCBackupServerProvider_GetFolderChildren_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenResponse"
message="tns:IPCBackupServerProvider_GetFolderChildren_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenSecurityAccessDenied
ExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetFolderChildren_SecurityAccessDeniedExceptionFault_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenPCBackupServerFaultF
ault" name="PCBackupServerFaultFault" />
</wsdl:operation>
```

```
message="tns:IPCBackupServerProvider_GetFolderChildren_PCBackupServerFaultFault_FaultMessage"
/>
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_GetFolderChildren\_InputMessage** request message, the protocol server gets the children of the specified folder. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetFolderChildren\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.43.1 Messages

#### 3.2.5.43.1.1 IPCBackupServerProvider\_GetFolderChildren\_InputMessage

This is the request for the **GetFolderChildren** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetFolderChildren_InputMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildren" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetFolderChildren
```

The body of the SOAP message MUST contain the **GetFolderChildren** element.

#### 3.2.5.43.1.2 IPCBackupServerProvider\_GetFolderChildren\_OutputMessage

This is the response for the **GetFolderChildren** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetFolderChildren_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildrenResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenResponse
```

The body of the SOAP message MUST contain the **GetFolderChildrenResponse** element.

### 3.2.5.43.2 Elements

#### 3.2.5.43.2.1 GetFolderChildren

This element specifies input values for the **GetFolderChildren** operation.

```
<xs:element name="GetFolderChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="folderRequest" nillable="true"
        xmlns:q20="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q20:FolderRequest" />
      <xs:element minOccurs="0" name="index" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**clientSid:** A string that contains the security identifier of the client.

**folderRequest:** A **FolderRequest** (section [2.2.4.2.16](#)) complex type that contains the data needed for getting folder children.

**index:** An integer that contains the index of the request.

### 3.2.5.43.2.2 GetFolderChildrenResponse

This element specifies output values for the **GetFolderChildren** operation.

```

<xs:element name="GetFolderChildrenResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetFolderChildrenResult" nillable="true"
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q21:FolderInfoGroup" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetFolderChildrenResult:** A **FolderInfoGroup** (section [2.2.4.2.15](#)) complex type that contains the results of the attempt to get folder children.

### 3.2.5.44 IPCBackupServerProvider.GetConnectedVolumes

This operation gets the connected volumes of the specified client.

```

<wsdl:operation name="GetConnectedVolumes">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumes"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesResponse"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_SecurityAccessDeniedExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider\_GetConnectedVolumes\_InputMessage** request message, the protocol server gets the connected volumes of the client. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_GetConnectedVolumes\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.44.1 Messages

### 3.2.5.44.1.1 IPCBackupServerProvider\_GetConnectedVolumes\_InputMessage

This is the request for the **GetConnectedVolumes** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetConnectedVolumes_InputMessage">
  <wsdl:part name="parameters" element="tns:GetConnectedVolumes" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumes
```

The body of the SOAP message MUST contain the **GetConnectedVolumes** element.

### 3.2.5.44.1.2 IPCBackupServerProvider\_GetConnectedVolumes\_OutputMessage

This is the response for the **GetConnectedVolumes** operation.

```
<wsdl:message name="IPCBackupServerProvider_GetConnectedVolumes_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetConnectedVolumesResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesResponse
```

The body of the SOAP message MUST contain the **GetConnectedVolumesResponse** element.

## 3.2.5.44.2 Elements

### 3.2.5.44.2.1 GetConnectedVolumes

This element specifies input values for the **GetConnectedVolumes** operation.

```
<xs:element name="GetConnectedVolumes">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.44.2.2 GetConnectedVolumesResponse

This element specifies output values for the **GetConnectedVolumes** operation.

```
<xs:element name="GetConnectedVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetConnectedVolumesResult" nillable="true"
xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q22:ArrayOfClientVolumeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetConnectedVolumesResult:** An array of **ClientVolumeInfo** (section [2.2.4.2.11](#)) complex types that contains the result of the attempt to get connected volumes.

### 3.2.5.45 IPCBackupServerProvider.CleanFolderSizeCalculation

This operation resets the folder size calculation.

```
<wsdl:operation name="CleanFolderSizeCalculation">
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/CleanFolderSizeCalculation"
    message="tns:IPCBackupServerProvider CleanFolderSizeCalculation InputMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CleanFolderSizeCalculation\_InputMessage** request message, the protocol server resets its folder size calculations. Upon successful completion of the action, the server **MUST** respond with **IPCBackupServerProvider\_CleanFolderSizeCalculation\_OutputMessage**. In the event of a failure, the appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.45.1 Messages

##### 3.2.5.45.1.1 IPCBackupServerProvider\_CleanFolderSizeCalculation\_InputMessage

This is the request for the **CleanFolderSizeCalculation** operation.

```
<wsdl:message name="IPCBackupServerProvider CleanFolderSizeCalculation InputMessage">
  <wsdl:part name="parameters" element="tns:CleanFolderSizeCalculation" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CleanFolderSizeCalculation
```

The body of the SOAP message **MUST** contain the **CleanFolderSizeCalculation** element.

#### 3.2.5.45.2 Elements

##### 3.2.5.45.2.1 CleanFolderSizeCalculation

This element specifies input values for the **CleanFolderSizeCalculation** operation.

```
<xs:element name="CleanFolderSizeCalculation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.46 IPCBackupServerProvider.StartBackup

This operation starts a backup operation on a particular client.

```
<wsdl:operation name="StartBackup">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackup"
  message="tns:IPCBackupServerProvider_StartBackup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupResponse"
  message="tns:IPCBackupServerProvider_StartBackup_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupPCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_StartBackup_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupSecurityAccessDeniedExcept
  ionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_StartBackup_SecurityAccessDeniedExceptionFault_FaultMess
  age" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_StartBackup\_InputMessage** request message, the protocol server starts a backup operation on the particular client. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_StartBackup\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.46.1 Messages

##### 3.2.5.46.1.1 IPCBackupServerProvider\_StartBackup\_InputMessage

This is the request for the **StartBackup** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartBackup_InputMessage">
  <wsdl:part name="parameters" element="tns:StartBackup" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartBackup
```

The body of the SOAP message MUST contain the **StartBackup** element.

##### 3.2.5.46.1.2 IPCBackupServerProvider\_StartBackup\_OutputMessage

This is the response for the **StartBackup** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartBackup_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartBackupResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartBackupResponse
```

The body of the SOAP message MUST contain the **StartBackupResponse** element.

## 3.2.5.46.2 Elements

### 3.2.5.46.2.1 StartBackup

This element specifies input values for the **StartBackup** operation.

```
<xs:element name="StartBackup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="description" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

**description:** A string that contains the description of the backup.

### 3.2.5.46.2.2 StartBackupResponse

This element specifies output values for the **StartBackup** operation. This element has no parameters.

```
<xs:element name="StartBackupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

## 3.2.5.47 IPCBackupServerProvider.CancelBackup

This operation cancels a backup on a particular client.

```
<wsdl:operation name="CancelBackup">
  <wsdl:input wsam:Action="http://tempuri.org/IPBackupServerProvider/CancelBackup"
  message="tns:IPCBackupServerProvider_CancelBackup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPBackupServerProvider/CancelBackupResponse"
  message="tns:IPCBackupServerProvider_CancelBackup_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPBackupServerProvider/CancelBackupSecurityAccessDeniedExcep
  tionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider CancelBackup SecurityAccessDeniedExceptionFault FaultMes
  sage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPBackupServerProvider/CancelBackupPCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider CancelBackup PCBackupServerFaultFault FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_CancelBackup\_InputMessage** request message, the protocol server cancels a backup on the particular client. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_CancelBackup\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.2.5.47.1 Messages

#### 3.2.5.47.1.1 IPCBackupServerProvider\_CancelBackup\_InputMessage



This is the request for the **CancelBackup** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelBackup_InputMessage">
  <wsdl:part name="parameters" element="tns:CancelBackup" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelBackup
```

The body of the SOAP message **MUST** contain the **CancelBackup** element.

### 3.2.5.47.1.2 IPCBackupServerProvider\_CancelBackup\_OutputMessage

This is the response for the **CancelBackup** operation.

```
<wsdl:message name="IPCBackupServerProvider_CancelBackup_OutputMessage">
  <wsdl:part name="parameters" element="tns:CancelBackupResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/CancelBackupResponse
```

The body of the SOAP message **MUST** contain the **CancelBackupResponse** element.

## 3.2.5.47.2 Elements

### 3.2.5.47.2.1 CancelBackup

This element specifies input values for the **CancelBackup** operation.

```
<xs:element name="CancelBackup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**clientSid:** A string that contains the security identifier of the client.

### 3.2.5.47.2.2 CancelBackupResponse

This element specifies output values for the **CancelBackup** operation. This element has no parameters.

```
<xs:element name="CancelBackupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.48 IPCBackupServerProvider.StartBackupService

This operation starts the backup service.

```
<wsdl:operation name="StartBackupService">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupService"
  message="tns:IPCBackupServerProvider_StartBackupService_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServiceResponse"
  message="tns:IPCBackupServerProvider_StartBackupService_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServicePCBackupServerFault
  Fault" name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_StartBackupService_PCBackupServerFaultFault_FaultMessage
  " />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServiceSecurityAccessDenie
  dExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_StartBackupService_SecurityAccessDeniedExceptionFault Fa
  ultMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_StartBackupService\_InputMessage** request message, the protocol server starts the backup service. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_StartBackupService\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.48.1 Messages

##### 3.2.5.48.1.1 IPCBackupServerProvider\_StartBackupService\_InputMessage

This is the request for the **StartBackupService** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartBackupService_InputMessage">
  <wsdl:part name="parameters" element="tns:StartBackupService" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartBackupService
```

The body of the SOAP message MUST contain the **StartBackupService** element.

##### 3.2.5.48.1.2 IPCBackupServerProvider\_StartBackupService\_OutputMessage

This is the response for the **StartBackupService** operation.

```
<wsdl:message name="IPCBackupServerProvider_StartBackupService_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartBackupServiceResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StartBackupServiceResponse
```

The body of the SOAP message MUST contain the **StartBackupServiceResponse** element.

### 3.2.5.48.2 Elements

#### 3.2.5.48.2.1 StartBackupService

This element specifies input values for the **StartBackupService** operation. This element has no parameters.

```
<xs:element name="StartBackupService">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.2.5.48.2.2 StartBackupServiceResponse

This element specifies output values for the **StartBackupService** operation. This element has no parameters.

```
<xs:element name="StartBackupServiceResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.2.5.49 IPCBackupServerProvider.StopBackupService

This operation stops the backup service.

```
<wsdl:operation name="StopBackupService">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupService"
  message="tns:IPCBackupServerProvider_StopBackupService_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServiceResponse"
  message="tns:IPCBackupServerProvider_StopBackupService_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServiceSecurityAccessDenied
  ExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_StopBackupService_SecurityAccessDeniedExceptionFault_Fau
  ltMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServicePCBackupServerFaultF
  ault" name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_StopBackupService_PCBackupServerFaultFault_FaultMessage"
  />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_StopBackupService\_InputMessage** request message, the protocol server stops the backup service. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider\_StopBackupService\_OutputMessage**. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.2.5.49.1 Messages

##### 3.2.5.49.1.1 IPCBackupServerProvider\_StopBackupService\_InputMessage

This is the request for the **StopBackupService** operation.

```
<wsdl:message name="IPCBackupServerProvider_StopBackupService_InputMessage">
  <wsdl:part name="parameters" element="tns:StopBackupService" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StopBackupService
```

The body of the SOAP message **MUST** contain the **StopBackupService** element.

### 3.2.5.49.1.2 IPCBackupServerProvider\_StopBackupService\_OutputMessage

This is the response for the **StopBackupService** operation.

```
<wsdl:message name="IPCBackupServerProvider_StopBackupService_OutputMessage">
  <wsdl:part name="parameters" element="tns:StopBackupServiceResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/StopBackupServiceResponse
```

The body of the SOAP message **MUST** contain the **StopBackupServiceResponse** element.

## 3.2.5.49.2 Elements

### 3.2.5.49.2.1 StopBackupService

This element specifies input values for the **StopBackupService** operation.

```
<xs:element name="StopBackupService">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="reason"
        xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q23:StopReason" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**reason:** A **StopReason** (section [2.2.5.2.17](#)) string that contains the reason why the backup service should be stopped.

### 3.2.5.49.2.2 StopBackupServiceResponse

This element specifies output values for the **StopBackupService** operation. This element has no parameters.

```
<xs:element name="StopBackupServiceResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
```

```
</xs:element>
```

### 3.2.5.50 IPCBackupServerProvider.NotifyBackupOperationStatusChange

This callback operation notifies the caller of a change in the status of a backup operation.

```
<wsdl:operation name="NotifyBackupOperationStatusChange">
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/NotifyBackupOperationStatusChange"
message="tns:IPCBackupServerProvider_NotifyBackupOperationStatusChange_OutputCallbackMessage"
/>
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_NotifyBackupOperationStatusChange\_OutputCallbackMessage** request message, the protocol client is notified of a change in the status of a backup operation.

#### 3.2.5.50.1 Messages

##### 3.2.5.50.1.1 IPCBackupServerProvider\_NotifyBackupOperationStatusChange\_OutputCallbackMessage

This is the request for the **NotifyBackupOperationStatusChange** operation.

```
<wsdl:message
name="IPCBackupServerProvider_NotifyBackupOperationStatusChange_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:NotifyBackupOperationStatusChange" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/NotifyBackupOperationStatusChange
```

The body of the SOAP message MUST contain the **NotifyBackupOperationStatusChange** element.

#### 3.2.5.50.2 Elements

##### 3.2.5.50.2.1 NotifyBackupOperationStatusChange

This element specifies input values for the **NotifyBackupOperationStatusChange** operation.

```
<xs:element name="NotifyBackupOperationStatusChange">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="backupOperationStatus" nillable="true"
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q24:OperationStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**backupOperationStatus:** An **OperationStatusResponse** (section [2.2.4.2.17](#)) complex type that contains the status of the backup operation.

### 3.2.5.51 IPCBackupServerProvider.VolumeCalculatorProgress

This callback operation notifies the caller of the current progress of a volume calculation.

```
<wsdl:operation name="VolumeCalculatorProgress">
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBackupServerProvider/VolumeCalculatorProgress"
message="tns:IPCBackupServerProvider_VolumeCalculatorProgress_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_VolumeCalculatorProgress\_OutputCallbackMessage** request message, the protocol client is notified of the current progress of a volume calculation.

#### 3.2.5.51.1 Messages

##### 3.2.5.51.1.1 IPCBackupServerProvider\_VolumeCalculatorProgress\_OutputCallbackMessage

This is the request for the **VolumeCalculatorProgress** operation.

```
<wsdl:message name="IPCBackupServerProvider_VolumeCalculatorProgress_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:VolumeCalculatorProgress" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/VolumeCalculatorProgress
```

The body of the SOAP message MUST contain the **VolumeCalculatorProgress** element.

#### 3.2.5.51.2 Elements

##### 3.2.5.51.2.1 VolumeCalculatorProgress

This element specifies input values for the **VolumeCalculatorProgress** operation.

```
<xs:element name="VolumeCalculatorProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="guid"
xmlns:q25="http://schemas.microsoft.com/2003/10/Serialization/" type="q25:guid" />
      <xs:element minOccurs="0" name="percentDone" type="xs:int" />
      <xs:element minOccurs="0" name="folders" nillable="true"
xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q26:ArrayOfFolderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**guid:** The GUID of the specified volume.

**percentDone:** An integer that indicates the progress of the current operation; valid values range from 0 to 100 percent.

**Folders:** An array of **FolderInfo** (section [2.2.4.2.14](#)) complex types that contains details about the folder that have already been calculated.

### 3.2.5.52 IPCBackupServerProvider.NotifyServiceStatusChange

This callback operation notifies the caller of a service status change.

```
<wsdl:operation name="NotifyServiceStatusChange">
  <wsdl:output
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/NotifyServiceStatusChange"
    message="tns:IPCBackupServerProvider_NotifyServiceStatusChange_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider\_NotifyServiceStatusChange\_OutputCallbackMessage** request message, the protocol client is notified of service status change.

#### 3.2.5.52.1 Messages

##### 3.2.5.52.1.1 IPCBackupServerProvider\_NotifyServiceStatusChange\_OutputCallbackMessage

This is the request for the **NotifyServiceStatusChange** operation.

```
<wsdl:message name="IPCBackupServerProvider_NotifyServiceStatusChange_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:NotifyServiceStatusChange" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/NotifyServiceStatusChange
```

The body of the SOAP message MUST contain the **NotifyServiceStatusChange** element.

#### 3.2.5.52.2 Elements

##### 3.2.5.52.2.1 NotifyServiceStatusChange

This element specifies input values for the **NotifyServiceStatusChange** operation.

```
<xs:element name="NotifyServiceStatusChange">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="serviceStatus" nillable="true"
        xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q27:ServiceStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**serviceStatus:** A **ServiceStatusResponse** (section [2.2.4.2.18](#)) complex type that contains the service status details.

### 3.2.6 Timer Events

None.

### 3.2.7 Other Local Events

None.

## 3.3 Health Provider Service Contract Details

### 3.3.1 Abstract Data Model

This section describes a conceptual service contract that an implementation maintains to participate in this protocol. The described operations of the service contract are provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this service contract as long as their external behavior is consistent with how it is described in this document.

#### 3.3.1.1 ADM\_ArrayOfKeyValueOfstringArrayOfAlertInfo

This is an array of dictionaries of the alert information for all joined devices.

**Key:** The SID of the device.

**Value:** The alert information of the given alert.

##### 3.3.1.1.1 Data Model

###### 3.3.1.1.1.1 AlertInfo

Note that the AlertInfo data model also has a corresponding SOAP complex type defined in section [2.2.4.3.2](#).

**ActionPerformed:** The health definition alert action performed when the alert is detected.

**AdditionalInfo:** A store of additional information bound to the alert.

**DateAndTime:** The date and time when the alert was raised.

**Description:** The description of the alert.

**Escalate:** TRUE, if the alert will be escalated to admin through email; otherwise, FALSE.

**FeatureName:** The name of the feature definition to which the health definition belongs.

**FeatureTile:** The title of the health definition for which the alert is raised.

**HealthDefinitionName:** The name of the feature definition for which the alert is raised.

**HealthDefinitionTitle:** The title of the feature definition to which the health definition belongs.

**InstanceId:** The instance ID of the alert.

**IsNew:** TRUE, if the alert being raised is not already present; otherwise, FALSE.

**IsRepairDefined:** TRUE, if the alert is repairable; otherwise, FALSE.

**IsSuppressed:** TRUE, if the alert is suppressed; otherwise, FALSE.



**IsSystem:** TRUE, if an alert is a system alert; otherwise, FALSE.

**LastSuppressedDateTime:** The last time the alert was suppressed.

**MachineId:** Typically the SID of the client computer.

**MachineName:** The name of the machine on which the alert is raised.

**RepairActionPerformed:** The information about the health definition repair action performed when the alert is repaired.

**Severity:** The health status:

- OK: There is no existing alert.
- Information: Informational alert.
- Warning: Warning alert.
- Critical: Critical alert.
- Report: An alert which collects information from the client.

**SupportLink:** The support link of the alert.

**TroubleshootSteps:** The troubleshooting steps of the alert.

**Troubleshooter:** Allow the user to launch the task from the Alert Viewer.

### 3.3.2 Timers

None.

### 3.3.3 Initialization

None.

### 3.3.4 Higher-Layer Triggered Events

None.

### 3.3.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IAlertProviderCallback.RaiseAlertCompleted</a>	Indicates the raise alert has completed.
<a href="#">IAlertProviderCallback.ClearAlertCompleted</a>	Indicates the clear alert has completed.
<a href="#">IAlertProviderCallback.SuppressAlertCompleted</a>	Indicates the suppress alert has completed.
<a href="#">IAlertProviderCallback.RepairAlertCompleted</a>	Indicates the repair alert has completed.
<a href="#">IAlertProviderCallback.EvaluateAlertsCompleted</a>	Indicates the health evaluation cycle has completed.
<a href="#">IAlertProviderCallback.RaisedAlerts</a>	Provides the alerts raised on a client computer.
<a href="#">IAlertProviderCallback.ClearedAlerts</a>	Provides the alerts cleared on a client computer.
<a href="#">IAlertSynchCallback.AlertChanged</a>	Indicates a callback for alert changed event.

OperationContract	Description
<a href="#">IAlertManagementProviderService.GetAllNetworkAlerts</a>	Gets the list of <b>AlertInfo</b> objects representing the alerts currently active in the entire network.
<a href="#">IAlertManagementProviderService.ClearAlertOneWay</a>	Clears an alert that is currently active in the network, either on the primary server or on a client computer. This operation does not wait until the alert is cleared before returning.
<a href="#">IAlertManagementProviderService.ClearAlert</a>	Clears an alert that is currently active in the network, either on the primary server or on a client computer. This operation waits until the alert is cleared before returning.
<a href="#">IAlertManagementProviderService.SuppressAlertOneWay</a>	Changes the suppress flag on an alert that is currently active in the network, either on the primary server or on a client computer, to the value provided. This operation does not wait until the alert is suppressed before returning.
<a href="#">IAlertManagementProviderService.SuppressAlert</a>	Changes the suppress flag on an alert that is currently active in the network, either on the primary server or on a client computer with the value provided. This operation waits until the alert is suppressed before returning.
<a href="#">IAlertManagementProviderService.RaiseAlertOneWay</a>	Raises an alert for a health definition defined for a feature. This operation does not wait until the alert is raised before returning.
<a href="#">IAlertManagementProviderService.RaiseAlert</a>	Raises an alert for a health definition defined for a feature. This operation waits until the alert is raised before returning.
<a href="#">IAlertManagementProviderService.IsAuthorized</a>	Determines whether the connected user has network alert access. This is a provider service running on the primary server.
<a href="#">IAlertSynchProviderService.RegisterClientAgent</a>	Registers a client computer for callback with <b>IAlertSynchProviderService</b> provider service running on the primary server.
<a href="#">IAlertSynchProviderService.SynchronizeAlerts</a>	Synchronizes the list of <b>AlertInfo</b> objects representing alerts raised, cleared, updated, or evaluated on a particular machine in the network to the server.
<a href="#">IAlertSynchProviderService.ClearCallbackCommandQueue</a>	Clears all the pending command queues for the machine. Used when a device cannot have an Agent running.
<a href="#">IAlertSynchProviderService.GetPlugInInformation</a>	Get information about all the installed plugins.
<a href="#">IAlertSynchProviderService.DownloadDefinition</a>	Get stream of definition file of a feature plug-in.
<a href="#">IAlertSynchProviderService.DownloadConfiguration</a>	Get stream of definition configuration file of a feature plug-in.

### 3.3.5.1 IAlertProviderCallback.RaiseAlertCompleted

This operation is a callback indicating that the raise alert operation has completed.

```
<wsdl:operation name="RaiseAlertCompleted">
  <wsdl:output
    wsam:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertCompleted"
    message="tns:IAAlertManagementProviderService_RaiseAlertCompleted_OutputCallbackMessage" />
</wsdl:operation>
```

### 3.3.5.1.1 Messages

#### 3.3.5.1.1.1 IAAlertProviderCallback\_RaiseAlertCompleted\_OutputCallbackMessage

This is the request for the **RaiseAlertCompleted** operation.

```
<wsdl:message
  name="IAAlertManagementProviderService_RaiseAlertCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RaiseAlertCompleted" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/RaiseAlertCompleted
```

The body of the SOAP message MUST contain the **RaiseAlertCompleted** element.

### 3.3.5.1.2 Elements

#### 3.3.5.1.2.1 RaiseAlertCompleted

This element specifies input values for the **RaiseAlertCompleted** operation.

```
<xs:element name="RaiseAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertInfo" nillable="true"
        xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q5:AlertInfo" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertInfo:** An **AlertInfo** (section [2.2.4.3.2](#)) complex type that contains the alert information.

**errMessage:** A string that contains any error received when raising an alert.

### 3.3.5.2 IAAlertProviderCallback.ClearAlertCompleted

This operation is a callback indicating that the clear alert operation has completed.

```
<wsdl:operation name="ClearAlertCompleted">
  <wsdl:output
    wsam:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertCompleted"
    message="tns:IAAlertManagementProviderService_ClearAlertCompleted_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.3.5.2.1 Messages

### 3.3.5.2.1.1 IAlertProviderCallback\_ClearAlertCompleted\_OutputCallbackMessage

This is the request for the **ClearAlertCompleted** operation.

```
<wsdl:message name="IAlertProviderCallback_ClearAlertCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ClearAlertCompleted" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/ClearAlertCompleted
```

The body of the SOAP message MUST contain the **ClearAlertCompleted** element.

### 3.3.5.2.2 Elements

#### 3.3.5.2.2.1 ClearAlertCompleted

This element specifies input values for the **ClearAlertCompleted** operation.

```
<xs:element name="ClearAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key of the alert.

**errMessage:** A string that contains any error received when clearing an alert.

### 3.3.5.3 IAlertProviderCallback.SuppressAlertCompleted

This operation is a callback indicating that the suppress alert operation has completed.

```
<wsdl:operation name="SuppressAlertCompleted">
  <wsdl:output
wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlertCompleted"
message="tns:IAlertManagementProviderService_SuppressAlertCompleted_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.3.5.3.1 Messages

##### 3.3.5.3.1.1 IAlertProviderCallback\_SuppressAlertCompleted\_OutputCallbackMessage

This is the request for the **SuppressAlertCompleted** operation.

```
<wsdl:message name="IAlertProviderCallback_SuppressAlertCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlertCompleted" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/SuppressAlertCompleted
```

The body of the SOAP message MUST contain the **SuppressAlertCompleted** element.

### 3.3.5.3.2 Elements

#### 3.3.5.3.2.1 SuppressAlertCompleted

This element specifies input values for the **SuppressAlertCompleted** operation.

```
<xs:element name="SuppressAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

**errMessage:** A string that contains any error received when suppressing an alert.

### 3.3.5.4 IAAlertProviderCallback.RepairAlertCompleted

This operation is a callback indicating that the repair alert operation has completed.

```
<wsdl:operation name="RepairAlertCompleted">
  <wsdl:output
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/RepairAlertCompleted"
message="tns:IAAlertManagementProviderService_RepairAlertCompleted_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.3.5.4.1 Messages

##### 3.3.5.4.1.1 IAAlertProviderCallback\_RepairAlertCompleted\_OutputCallbackMessage

This is the request for the **RepairAlertCompleted** operation.

```
<wsdl:message name="IAAlertProviderCallback_RepairAlertCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RepairAlertCompleted" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/RepairAlertCompleted
```

The body of the SOAP message MUST contain the **RepairAlertCompleted** element.

#### 3.3.5.4.2 Elements

### 3.3.5.4.2.1 RepairAlertCompleted

This element specifies input values for the **RepairAlertCompleted** operation.

```
<xs:element name="RepairAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errorMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

**errorMessage:** A string that contains any error received when repairing an alert.

### 3.3.5.5 IAlertProviderCallback.EvaluateAlertsCompleted

This operation is a callback indicating that the health evaluation process has completed.

```
<wsdl:operation name="EvaluateAlertsCompleted">
  <wsdl:output
    wsam:Action="http://tempuri.org/IAlertManagementProviderService/EvaluateAlertsCompleted"
    message="tns:IAlertManagementProviderService_EvaluateAlertsCompleted_OutputCallbackMessage"
  />
</wsdl:operation>
```

#### 3.3.5.5.1 Messages

##### 3.3.5.5.1.1 IAlertProviderCallback\_EvaluateAlertsCompleted\_OutputCallbackMessage

This is the request for the **EvaluateAlertsCompleted** operation.

```
<wsdl:message name="IAlertProviderCallback_EvaluateAlertsCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:EvaluateAlertsCompleted" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/EvaluateAlertsCompleted
```

The body of the SOAP message **MUST** contain the **EvaluateAlertsCompleted** element.

#### 3.3.5.5.2 Elements

##### 3.3.5.5.2.1 EvaluateAlertsCompleted

This element specifies input values for the **EvaluateAlertsCompleted** operation.

```
<xs:element name="EvaluateAlertsCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="0" name="ignoreSchedule" nillable="true" type="xs:boolean" />
    <xs:element minOccurs="0" name="errorMessage" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**machineId:** A string that contains the ID of the machine.

**ignoreSchedule:** A Boolean where TRUE indicates that the individual evaluation schedule of the health definition is ignored; otherwise, the value is FALSE.

**errorMessage:** A string that contains any error received when evaluating an alert.

### 3.3.5.6 IAlertProviderCallback.RaisedAlerts

This operation is a callback that provides the alerts that have been raised on a client computer.

```

<wsdl:operation name="RaisedAlerts">
  <wsdl:output wsam:Action="http://tempuri.org/IAlertManagementProviderService/RaisedAlerts"
  message="tns:IAlertManagementProviderService_RaisedAlerts_OutputCallbackMessage" />
</wsdl:operation>

```

#### 3.3.5.6.1 Messages

##### 3.3.5.6.1.1 IAlertProviderCallback\_RaisedAlerts\_OutputCallbackMessage

This is the request for the **RaisedAlerts** operation.

```

<wsdl:message name="IAlertProviderCallback_RaisedAlerts_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RaisedAlerts" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/RaisedAlerts
```

The body of the SOAP message MUST contain the **RaisedAlerts** element.

#### 3.3.5.6.2 Elements

##### 3.3.5.6.2.1 RaisedAlerts

This element specifies input values for the **RaisedAlerts** operation.

```

<xs:element name="RaisedAlerts">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertInfoList" nillable="true"
  xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
  lth.AlertFramework" type="q6:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="task"
  xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
  lth.AlertFramework" type="q7:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```
</xs:complexType>
</xs:element>
```

**alertInfoList:** An array of **AlertInfo** (section [2.2.4.3.2](#)) complex types that contains a list of the alerts raised.

**task:** A **TaskType** (section [2.2.5.3.1](#)) value that contains the type of task that raised the alerts.

**machineId:** A string that contains the ID of the machine.

### 3.3.5.7 IAlertProviderCallback.ClearedAlerts

This operation is a callback that provides the alerts that have been cleared on a client computer.

```
<wsdl:operation name="ClearedAlerts">
  <wsdl:output wsam:Action="http://tempuri.org/IAlertManagementProviderService/ClearedAlerts"
    message="tns:IAlertManagementProviderService.ClearedAlerts.OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.3.5.7.1 Messages

##### 3.3.5.7.1.1 IAlertProviderCallback\_ClearedAlerts\_OutputCallbackMessage

This is the request for the **ClearedAlerts** operation.

```
<wsdl:message name="IAlertProviderCallback_ClearedAlerts_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ClearedAlerts" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/ClearedAlerts
```

The body of the SOAP message MUST contain the **ClearedAlerts** element.

#### 3.3.5.7.2 Elements

##### 3.3.5.7.2.1 ClearedAlerts

This element specifies input values for the **ClearedAlerts** operation.

```
<xs:element name="ClearedAlerts">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertInfoList" nillable="true"
        xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q8:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="task"
        xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q9:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



**alertInfoList:** An array of **AlertInfo** (section [2.2.4.3.2](#)) complex types that contains a list of the alerts cleared.

**task:** A **TaskType** (section [2.2.5.3.1](#)) value that contains the type of task that cleared the alerts.

**machineId:** A string that contains the ID of the machine.

### 3.3.5.8 IAlertSynchCallback.AlertChanged

This operation is a callback for the alert changed event.

```
<wsdl:operation name="AlertChanged">
  <wsdl:output wsam:Action="http://tempuri.org/IAlertSynchProviderService/AlertChanged"
    message="tns:IAlertSynchProviderService_AlertChanged_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.3.5.8.1 Messages

##### 3.3.5.8.1.1 IAlertSynchCallback\_AlertChanged\_OutputCallbackMessage

This is the request for the **AlertChanged** operation.

```
<wsdl:message name="IAlertSynchCallback_AlertChanged_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:AlertChanged" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderCallback/AlertChanged
```

The body of the SOAP message MUST contain the **AlertChanged** element.

#### 3.3.5.8.2 Elements

##### 3.3.5.8.2.1 AlertChanged

This element specifies input values for the **AlertChanged** operation.

```
<xs:element name="AlertChanged">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="commands" nillable="true"
        xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q6:ArrayOfanyType"
      />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commands:** An array of values that contains the commands to process the alert.

### 3.3.5.9 IAlertManagementProviderService.GetAllNetworkAlerts

This operation returns the list of **AlertInfo** objects representing the alerts currently active in the entire network.

```

<wsdl:operation name="GetAllNetworkAlerts">
  <wsdl:input
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlerts"
message="tns:IAAlertManagementProviderService_GetAllNetworkAlerts_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlertsResponse"
message="tns:IAAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlertsSecurityAc
cessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAAlertManagementProviderService_GetAllNetworkAlerts_SecurityAccessDeniedExceptio
nFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlertsStringFault"
name="StringFault"
message="tns:IAAlertManagementProviderService_GetAllNetworkAlerts_StringFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IAAlertManagementProviderService\_GetAllNetworkAlerts\_InputMessage** request message, the protocol server starts to query the alerts currently active in the entire network. Upon successful completion of the action, the server MUST respond with **IAAlertManagementProviderService\_GetAllNetworkAlerts\_OutputMessage**, which includes the list of AlertInfo objects representing the results. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.3.5.9.1 Messages

#### 3.3.5.9.1.1 IAAlertManagementProviderService\_GetAllNetworkAlerts\_InputMessage

This is the request for the **GetAllNetworkAlerts** operation.

```

<wsdl:message name="IAAlertManagementProviderService_GetAllNetworkAlerts_InputMessage">
  <wsdl:part name="parameters" element="tns:GetAllNetworkAlerts" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlerts
```

The body of the SOAP message MUST contain the **GetAllNetworkAlerts** element.

#### 3.3.5.9.1.2 IAAlertManagementProviderService\_GetAllNetworkAlerts\_OutputMessage

This is the response for the **GetAllNetworkAlerts** operation.

```

<wsdl:message name="IAAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetAllNetworkAlertsResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlertsResponse
```

The body of the SOAP message MUST contain the **GetAllNetworkAlertsResponse** element.

### 3.3.5.9.2 Elements

#### 3.3.5.9.2.1 GetAllNetworkAlerts

This element specifies input values for the **GetAllNetworkAlerts** operation. This element has no parameters.

```
<xs:element name="GetAllNetworkAlerts">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.3.5.9.2.2 GetAllNetworkAlertsResponse

This element specifies output values for the **GetAllNetworkAlerts** operation.

```
<xs:element name="GetAllNetworkAlertsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetAllNetworkAlertsResult" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service" type="q1:AlertListChunk" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAllNetworkAlertsResult:** An **AlertListChunk** (section [2.2.4.3.1](#)) complex type that contains the result of getting all network alerts.

### 3.3.5.10 IAlertManagementProviderService.ClearAlertOneWay

Clears an alert that is currently active in the network, either on the primary server or on a client computer. This operation does not wait for the alert to be cleared before returning.

```
<wsdl:operation name="ClearAlertOneWay">
  <wsdl:input
wsam:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertOneWay"
message="tns:IAlertManagementProviderService ClearAlertOneWay InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService\_ClearAlertOneWay\_InputMessage** request message, the protocol server is notified to clear the specific alert.

#### 3.3.5.10.1 Messages

##### 3.3.5.10.1.1 IAlertManagementProviderService\_ClearAlertOneWay\_InputMessage

This is the request for the **ClearAlertOneWay** operation.

```
<wsdl:message name="IAlertManagementProviderService_ClearAlertOneWay_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearAlertOneWay" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

<http://tempuri.org/IAAlertManagementProviderService/ClearAlertOneWay>

The body of the SOAP message MUST contain the **ClearAlertOneWay** element.

### 3.3.5.10.2 Elements

#### 3.3.5.10.2.1 ClearAlertOneWay

This element specifies input values for the **ClearAlertOneWay** operation.

```
<xs:element name="ClearAlertOneWay">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

### 3.3.5.11 IAAlertManagementProviderService.ClearAlert

This operation clears an alert that is currently active in the network, either on the primary server or on a client computer. This operation waits until the alert is cleared before returning.

```
<wsdl:operation name="ClearAlert">
  <wsdl:input wsam:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlert"
  message="tns:IAAlertManagementProviderService_ClearAlert_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertResponse"
  message="tns:IAAlertManagementProviderService_ClearAlert_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertStringFault"
  name="StringFault"
  message="tns:IAAlertManagementProviderService_ClearAlert_StringFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertSecurityAccessDenie
  dExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IAAlertManagementProviderService_ClearAlert_SecurityAccessDeniedExceptionFault_Fa
  ultMessage" />
</wsdl:operation>
```

Upon receiving the **IAAlertManagementProviderService\_ClearAlert\_InputMessage** request message, the protocol server starts to clear the specific alert. Upon successful completion of the action, the server MUST respond with **IAAlertManagementProviderService\_ClearAlert\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.11.1 Messages

##### 3.3.5.11.1.1 IAAlertManagementProviderService\_ClearAlert\_InputMessage

This is the request for the **ClearAlert** operation.

```
<wsdl:message name="IAAlertManagementProviderService_ClearAlert_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearAlert" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/ClearAlert
```

The body of the SOAP message MUST contain the **ClearAlert** element.

### 3.3.5.11.1.2 IAAlertManagementProviderService\_ClearAlert\_OutputMessage

This is the response for the **ClearAlert** operation.

```
<wsdl:message name="IAAlertManagementProviderService_ClearAlert_OutputMessage">  
  <wsdl:part name="parameters" element="tns:ClearAlertResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/ClearAlertResponse
```

The body of the SOAP message MUST contain the **ClearAlertResponse** element.

### 3.3.5.11.2 Elements

#### 3.3.5.11.2.1 ClearAlert

This element specifies input values for the **ClearAlert** operation.

```
<xs:element name="ClearAlert">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="alertKey" nillable="true"  
        type="xs:string" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

#### 3.3.5.11.2.2 ClearAlertResponse

This element specifies output values for the **ClearAlert** operation. This element has no parameters.

```
<xs:element name="ClearAlertResponse">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

### 3.3.5.12 IAlertManagementProviderService.SuppressAlertOneWay

This operation sets the suppress flag on an alert that is currently active in the network to the value provided. The alert can be either on the primary server or on a client computer. This operation does not wait until the alert is suppressed before returning.

```
<wsdl:operation name="SuppressAlertOneWay">
  <wsdl:input
    wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlertOneWay"
    message="tns:IAlertManagementProviderService_SuppressAlertOneWay_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService\_SuppressAlertOneWay\_InputMessage** request message, the protocol server is notified to suppress the specific alert.

#### 3.3.5.12.1 Messages

##### 3.3.5.12.1.1 IAlertManagementProviderService\_SuppressAlertOneWay\_InputMessage

This is the request for the **SuppressAlertOneWay** operation.

```
<wsdl:message name="IAlertManagementProviderService SuppressAlertOneWay InputMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlertOneWay" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/SuppressAlertOneWay
```

The body of the SOAP message MUST contain the **SuppressAlertOneWay** element.

#### 3.3.5.12.2 Elements

##### 3.3.5.12.2.1 SuppressAlertOneWay

This element specifies input values for the **SuppressAlertOneWay** operation.

```
<xs:element name="SuppressAlertOneWay">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="value" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

**value:** A Boolean where TRUE indicates that the alert should be suppressed; otherwise, the value is FALSE.

### 3.3.5.13 IAlertManagementProviderService.SuppressAlert

This operation sets the suppress flag on an alert that is currently active in the network to the value provided. The alert can be either on the primary server or on a client computer. This operation waits until the alert is cleared before returning.

```
<wsdl:operation name="SuppressAlert">
  <wsdl:input wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlert"
  message="tns:IAlertManagementProviderService_SuppressAlert_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlertResponse"
  message="tns:IAlertManagementProviderService SuppressAlert OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlertStringFault"
  name="StringFault"
  message="tns:IAlertManagementProviderService_SuppressAlert_StringFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/SuppressAlertSecurityAccessDe
  niedExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IAlertManagementProviderService_SuppressAlert_SecurityAccessDeniedExceptionFault
  FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService\_SuppressAlert\_InputMessage** request message, the protocol server starts to suppress the specific alert. Upon successful completion of the action, the server MUST respond with

**IAlertManagementProviderService\_SuppressAlert\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.13.1 Messages

##### 3.3.5.13.1.1 IAlertManagementProviderService\_SuppressAlert\_InputMessage

This is the request for the **SuppressAlert** operation.

```
<wsdl:message name="IAlertManagementProviderService SuppressAlert InputMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/SuppressAlert
```

The body of the SOAP message MUST contain the **SuppressAlert** element.

##### 3.3.5.13.1.2 IAlertManagementProviderService\_SuppressAlert\_OutputMessage

This is the response for the **SuppressAlert** operation.

```
<wsdl:message name="IAlertManagementProviderService_SuppressAlert_OutputMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlertResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

The body of the SOAP message MUST contain the **SuppressAlertResponse** element.

### 3.3.5.13.2 Elements

#### 3.3.5.13.2.1 SuppressAlert

This element specifies input values for the **SuppressAlert** operation.

```
<xs:element name="SuppressAlert">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="value" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertKey:** A string that contains the key to the alert.

**value:** A Boolean where TRUE indicates that the alert should be suppressed; otherwise, the value is FALSE.

#### 3.3.5.13.2.2 SuppressAlertResponse

This element specifies input values for the **SuppressAlert** operation. This element has no parameters.

```
<xs:element name="SuppressAlertResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.3.5.14 IAlertManagementProviderService.RaiseAlertOneWay

This operation raises an alert for a health definition for a feature. This operation does not wait until the alert is raised before returning.

```
<wsdl:operation name="RaiseAlertOneWay">
  <wsdl:input
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertOneWay"
message="tns:IAAlertManagementProviderService_RaiseAlertOneWay_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAAlertManagementProviderService\_RaiseAlertOneWay\_InputMessage** request message, the protocol server is notified to raise the specific alert.

#### 3.3.5.14.1 Messages

##### 3.3.5.14.1.1 IAlertManagementProviderService\_RaiseAlertOneWay\_InputMessage

This is the request for the **RaiseAlertOneWay** operation.



```
<wsdl:message name="IAlertManagementProviderService RaiseAlertOneWay InputMessage">
  <wsdl:part name="parameters" element="tns:RaiseAlertOneWay" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/RaiseAlertOneWay
```

The body of the SOAP message MUST contain the **RaiseAlertOneWay** element.

### 3.3.5.14.2 Elements

#### 3.3.5.14.2.1 RaiseAlertOneWay

This element specifies input values for the **RaiseAlertOneWay** operation.

```
<xs:element name="RaiseAlertOneWay">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertInfo" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" type="q2:AlertInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertInfo:** An **AlertInfo** (section [2.2.4.3.2](#)) complex type that contains the alert information.

### 3.3.5.15 IAlertManagementProviderService.RaiseAlert

This operation raises an alert for a health definition for a feature. This operation waits until the alert is cleared before returning.

```
<wsdl:operation name="RaiseAlert">
  <wsdl:input wsam:Action="http://tempuri.org/IAlertManagementProviderService/RaiseAlert"
message="tns:IAlertManagementProviderService_RaiseAlert_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IAlertManagementProviderService/RaiseAlertResponse"
message="tns:IAlertManagementProviderService RaiseAlert OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAlertManagementProviderService/RaiseAlertStringFault"
name="StringFault"
message="tns:IAlertManagementProviderService RaiseAlert StringFault FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAlertManagementProviderService/RaiseAlertSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAlertManagementProviderService_RaiseAlert_SecurityAccessDeniedExceptionFault_Fa
ultMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService\_RaiseAlert\_InputMessage** request message, the protocol server starts to raise the specific alert. Upon successful completion of the action, the server MUST respond with **IAlertManagementProviderService\_RaiseAlert\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.15.1 Messages

### 3.3.5.15.1.1 IAlertManagementProviderService\_RaiseAlert\_InputMessage

This is the request for the **RaiseAlert** operation.

```
<wsdl:message name="IAlertManagementProviderService_RaiseAlert_InputMessage">
  <wsdl:part name="parameters" element="tns:RaiseAlert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/RaiseAlert
```

The body of the SOAP message MUST contain the **RaiseAlert** element.

### 3.3.5.15.1.2 IAlertManagementProviderService\_RaiseAlert\_OutputMessage

This is the response for the **RaiseAlert** operation.

```
<wsdl:message name="IAlertManagementProviderService_RaiseAlert_OutputMessage">
  <wsdl:part name="parameters" element="tns:RaiseAlertResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/RaiseAlertResponse
```

The body of the SOAP message MUST contain the **RaiseAlertResponse** element.

## 3.3.5.15.2 Elements

### 3.3.5.15.2.1 RaiseAlert

This element specifies input values for the **RaiseAlert** operation.

```
<xs:element name="RaiseAlert">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertInfo" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q3:AlertInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alertInfo:** An **AlertInfo** (section [2.2.4.3.2](#)) complex type that contains the alert information.

### 3.3.5.15.2.2 RaiseAlertResponse

This element specifies output values for the **RaiseAlert** operation.

```
<xs:element name="RaiseAlertResponse">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="RaiseAlertResult" nillable="true"
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q4:AlertInfo" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**RaiseAlertResult:** An **AlertInfo** (section [2.2.4.3.2](#)) complex type that contains the result of raising an alert.

### 3.3.5.16 IAlertManagementProviderService.IsAuthorized

This operation determines whether the connected user has network alert access.

```

<wsdl:operation name="IsAuthorized">
  <wsdl:input wsam:Action="http://tempuri.org/IAlertManagementProviderService/IsAuthorized"
message="tns:IAlertManagementProviderService_IsAuthorized_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IAlertManagementProviderService/IsAuthorizedResponse"
message="tns:IAlertManagementProviderService_IsAuthorized_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **IAlertManagementProviderService\_IsAuthorized\_InputMessage** request message, the protocol server starts to check whether the connected user has network alert access. Upon successful completion of the action, the server MUST respond with **IAlertManagementProviderService\_IsAuthorized\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.16.1 Messages

##### 3.3.5.16.1.1 IAlertManagementProviderService\_IsAuthorized\_InputMessage

This is the request for the **IsAuthorized** operation.

```

<wsdl:message name="IAlertManagementProviderService_IsAuthorized_InputMessage">
  <wsdl:part name="parameters" element="tns:IsAuthorized" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IAlertManagementProviderService/IsAuthorized

```

The body of the SOAP message MUST contain the **IsAuthorized** element.

##### 3.3.5.16.1.2 IAlertManagementProviderService\_IsAuthorized\_OutputMessage

This is the response for the **IsAuthorized** operation.

```

<wsdl:message name="IAlertManagementProviderService_IsAuthorized_OutputMessage">
  <wsdl:part name="parameters" element="tns:IsAuthorizedResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

http://tempuri.org/IAAlertManagementProviderService/IsAuthorizedResponse

The body of the SOAP message MUST contain the **IsAuthorizedResponse** element.

### 3.3.5.16.2 Elements

#### 3.3.5.16.2.1 IsAuthorized

This element specifies input values for the **IsAuthorized** operation. This element has no parameters.

```
<xs:element name="IsAuthorized">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.3.5.16.2.2 IsAuthorizedResponse

This element specifies output values for the **IsAuthorized** operation.

```
<xs:element name="IsAuthorizedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" name="returnValue" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
```

**returnValue:** A Boolean where TRUE indicates that the service is authorized; otherwise, the value is FALSE.

### 3.3.5.17 IAlertSynchProviderService.RegisterClientAgent

This operation registers a client computer for callbacks with the **IAlertSynchProviderService** instance running on the primary server.

```
<wsdl:operation name="RegisterClientAgent">
  <wsdl:input wsam:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgent"
  message="tns:IAAlertSynchProviderService_RegisterClientAgent_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgentResponse"
  message="tns:IAAlertSynchProviderService_RegisterClientAgent_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgentArgumentNullExc
  eptionFault" name="ArgumentNullExceptionFault"
  message="tns:IAAlertSynchProviderService_RegisterClientAgent_ArgumentNullExceptionFault_FaultM
  essage" />
</wsdl:operation>
```

Upon receiving the **IAlertSynchProviderService\_RegisterClientAgent\_InputMessage** request message, the protocol server starts to register the client computer. Upon successful completion of the action, the server MUST respond with **IAlertSynchProviderService\_RegisterClientAgent\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.17.1 Messages

### 3.3.5.17.1.1 IAlertSynchProviderService\_RegisterClientAgent\_InputMessage

This is the request for the **RegisterClientAgent** operation.

```
<wsdl:message name="IAlertSynchProviderService_RegisterClientAgent_InputMessage">
  <wsdl:part name="parameters" element="tns:RegisterClientAgent" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/RegisterClientAgent
```

The body of the SOAP message MUST contain the **RegisterClientAgent** element.

### 3.3.5.17.1.2 IAlertSynchProviderService\_RegisterClientAgent\_OutputMessage

This is the response for the **RegisterClientAgent** operation.

```
<wsdl:message name="IAlertSynchProviderService_RegisterClientAgent_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterClientAgentResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/RegisterClientAgentResponse
```

The body of the SOAP message MUST contain the **RegisterClientAgentResponse** element.

## 3.3.5.17.2 Elements

### 3.3.5.17.2.1 RegisterClientAgent

This element specifies input values for the **RegisterClientAgent** operation.

```
<xs:element name="RegisterClientAgent">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**networkMachineId:** A string that contains the ID of the network machine.

### 3.3.5.17.2.2 RegisterClientAgentResponse

This element specifies output values for the **RegisterClientAgent** operation. This element has no parameters.

```
<xs:element name="RegisterClientAgentResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
```

```
</xs:element>
```

### 3.3.5.18 IAlertSynchProviderService.SynchronizeAlerts

This operation synchronizes the list of **AlertInfo** objects representing alerts raised, cleared, updated, or evaluated on a particular machine in the network to the server.

```
<wsdl:operation name="SynchronizeAlerts">
  <wsdl:input wsam:Action="http://tempuri.org/IAlertSynchProviderService/SynchronizeAlerts"
    message="tns:IAlertSynchProviderService_SynchronizeAlerts_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertSynchProviderService\_SynchronizeAlerts\_InputMessage** request message, the protocol server starts to synchronize the list of **AlertInfo** objects.

#### 3.3.5.18.1 Messages

##### 3.3.5.18.1.1 IAlertSynchProviderService\_SynchronizeAlerts\_InputMessage

This is the request for the **SynchronizeAlerts** operation.

```
<wsdl:message name="IAlertSynchProviderService_SynchronizeAlerts_InputMessage">
  <wsdl:part name="parameters" element="tns:SynchronizeAlerts" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/SynchronizeAlerts
```

The body of the SOAP message MUST contain the **SynchronizeAlerts** element.

#### 3.3.5.18.2 Elements

##### 3.3.5.18.2.1 SynchronizeAlerts

This element specifies input values for the **SynchronizeAlerts** operation.

```
<xs:element name="SynchronizeAlerts">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alerts" nillable="true"
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q1:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="task"
        xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q2:TaskType" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**alerts:** An array of **AlertInfo** (section [2.2.4.3.2](#)) complex types that contains a list of the objects of the alerts raised, cleared, updated, or evaluated between a particular machine in the network and the server.

**networkMachineId:** A string that contains the ID of the network machine.

**Task:** A **TaskType** (section [2.2.5.3.1](#)) value that indicates the type of task performed for which the alerts are being reported.

### 3.3.5.19 IAlertSynchProviderService.ClearCallbackCommandQueue

This operation clears all pending command queues for the machine.

```
<wsdl:operation name="ClearCallbackCommandQueue">
  <wsdl:input
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/ClearCallbackCommandQueue"
    message="tns:IAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/ClearCallbackCommandQueueResponse"
    message="tns:IAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertSynchProviderService\_ClearCallbackCommandQueue\_InputMessage** request message, the protocol server starts to clear all pending command queues for the machine. Upon successful completion of the action, the server MUST respond with **IAlertSynchProviderService\_ClearCallbackCommandQueue\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.19.1 Messages

##### 3.3.5.19.1.1 IAlertSynchProviderService\_ClearCallbackCommandQueue\_InputMessage

This is the request for the **ClearCallbackCommandQueue** operation.

```
<wsdl:message name="IAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueue" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/ClearCallbackCommandQueue
```

The body of the SOAP message MUST contain the **ClearCallbackCommandQueue** element.

##### 3.3.5.19.1.2 IAlertSynchProviderService\_ClearCallbackCommandQueue\_OutputMessage

This is the response for the **ClearCallbackCommandQueue** operation.

```
<wsdl:message name="IAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueueResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/ClearCallbackCommandQueueResponse
```

The body of the SOAP message MUST contain the **ClearCallbackCommandQueueResponse** element.

### 3.3.5.19.2 Elements

#### 3.3.5.19.2.1 ClearCallbackCommandQueue

This element specifies input values for the **ClearCallbackCommandQueue** operation.

```
<xs:element name="ClearCallbackCommandQueue">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**networkMachineId**: A string that contains the ID of the network machine.

#### 3.3.5.19.2.2 ClearCallbackCommandQueueResponse

This element specifies output values for the **ClearCallbackCommandQueue** operation. This element has no parameters.

```
<xs:element name="ClearCallbackCommandQueueResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.3.5.20 IAlertSynchProviderService.GetPlugInInformation

This operation gets information for all installed plugins.

```
<wsdl:operation name="GetPlugInInformation">
  <wsdl:input
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/GetPlugInInformation"
    message="tns:IAlertSynchProviderService_GetPlugInInformation_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/GetPlugInInformationResponse"
    message="tns:IAlertSynchProviderService_GetPlugInInformation_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertSynchProviderService\_GetPlugInInformation\_InputMessage** request message, the protocol server starts to get the plugin information. Upon successful completion of the action, the server MUST respond with **IAlertSynchProviderService\_GetPlugInInformation\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.20.1 Messages

##### 3.3.5.20.1.1 IAlertSynchProviderService\_GetPlugInInformation\_InputMessage

This is the request for the **GetPlugInInformation** operation.

```
<wsdl:message name="IAlertSynchProviderService_GetPlugInInformation_InputMessage">
```



```
<wsdl:part name="parameters" element="tns:GetPlugInInformation" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformation
```

The body of the SOAP message MUST contain the **GetPlugInInformation** element.

### 3.3.5.20.1.2 IAAlertSynchProviderService\_GetPlugInInformation\_OutputMessage

This is the response for the **GetPlugInInformation** operation.

```
<wsdl:message name="IAAlertSynchProviderService_GetPlugInInformation_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPlugInInformationResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformationResponse
```

The body of the SOAP message MUST contain the **GetPlugInInformationResponse** element.

## 3.3.5.20.2 Elements

### 3.3.5.20.2.1 GetPlugInInformation

This element specifies input values for the **GetPlugInInformation** operation. This element has no parameters.

```
<xs:element name="GetPlugInInformation">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.3.5.20.2.2 GetPlugInInformationResponse

This element specifies output values for the **GetPlugInInformation** operation.

```
<xs:element name="GetPlugInInformationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetPlugInInformationResult" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine" type="q3:ArrayOfPlugInInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPlugInInformationResult:** An array of **PlugInInfo** (section [2.2.4.3.7](#)) complex types that contains the result of getting plugin information.

### 3.3.5.21 IAlertSynchProviderService.DownloadDefinition

This operation obtains a stream containing the definition file for a feature plug-in.

```
<wsdl:operation name="DownloadDefinition">
  <wsdl:input wsam:Action="http://tempuri.org/IAlertSynchProviderService/DownloadDefinition"
  message="tns:IAlertSynchProviderService DownloadDefinition InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAlertSynchProviderService/DownloadDefinitionResponse"
  message="tns:IAlertSynchProviderService_DownloadDefinition_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertSynchProviderService\_DownloadDefinition\_InputMessage** request message, the protocol server generates a stream containing the definition file for the feature plug-in. Upon successful completion of the action, the server MUST respond with **IAlertSynchProviderService\_DownloadDefinition\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.21.1 Messages

##### 3.3.5.21.1.1 IAlertSynchProviderService\_DownloadDefinition\_InputMessage

This is the request for the **DownloadDefinition** operation.

```
<wsdl:message name="IAlertSynchProviderService DownloadDefinition InputMessage">
  <wsdl:part name="parameters" element="tns:DownloadDefinition" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/DownloadDefinition
```

The body of the SOAP message MUST contain the **DownloadDefinition** element.

##### 3.3.5.21.1.2 IAlertSynchProviderService\_DownloadDefinition\_OutputMessage

This is the response for the **DownloadDefinition** operation.

```
<wsdl:message name="IAlertSynchProviderService_DownloadDefinition_OutputMessage">
  <wsdl:part name="parameters" element="tns:DownloadDefinitionResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/DownloadDefinitionResponse
```

The body of the SOAP message MUST contain the **DownloadDefinitionResponse** element.

#### 3.3.5.21.2 Elements

##### 3.3.5.21.2.1 DownloadDefinition

This element specifies input values for the **DownloadDefinition** operation.

```

<xs:element name="DownloadDefinition">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="featureName" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**featureName:** A string that contains the feature name of the definition.

### 3.3.5.21.2 DownloadDefinitionResponse

This element specifies output values for the **DownloadDefinition** operation.

```

<xs:element name="DownloadDefinitionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="DownloadDefinitionResult"
        xmlns:q4="http://schemas.microsoft.com/Message" type="q4:StreamBody" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**DownloadDefinitionResult:** A **StreamBody** (section [2.2.5.3.3](#)) simple type that contains the result of downloading the definition.

### 3.3.5.22 IAlertSynchProviderService.DownloadConfiguration

This operation obtains a stream containing the definition configuration file for a feature plug-in.

```

<wsdl:operation name="DownloadConfiguration">
  <wsdl:input
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/DownloadConfiguration"
    message="tns:IAlertSynchProviderService_DownloadConfiguration_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/DownloadConfigurationResponse"
    message="tns:IAlertSynchProviderService_DownloadConfiguration_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **IAlertSynchProviderService\_DownloadConfiguration\_InputMessage** request message, the protocol server generates a stream containing the definition configuration file for the feature plug-in. Upon successful completion of the action, the server **MUST** respond with **IAlertSynchProviderService\_DownloadConfiguration\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.3.5.22.1 Messages

##### 3.3.5.22.1.1 IAlertSynchProviderService\_DownloadConfiguration\_InputMessage

This is the request for the **DownloadConfiguration** operation.

```

<wsdl:message name="IAlertSynchProviderService_DownloadConfiguration_InputMessage">
  <wsdl:part name="parameters" element="tns:DownloadConfiguration" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

`http://tempuri.org/IAAlertSynchProviderService/DownloadConfiguration`

The body of the SOAP message MUST contain the **DownloadConfiguration** element.

### 3.3.5.22.1.2 IAAlertSynchProviderService\_DownloadConfiguration\_OutputMessage

This is the response for the **DownloadConfiguration** operation.

```
<wsdl:message name="IAAlertSynchProviderService_DownloadConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:DownloadConfigurationResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

`http://tempuri.org/IAAlertSynchProviderService/DownloadConfigurationResponse`

The body of the SOAP message MUST contain the **DownloadConfigurationResponse** element.

### 3.3.5.22.2 Elements

#### 3.3.5.22.2.1 DownloadConfiguration

This element specifies input values for the **DownloadConfiguration** operation.

```
<xs:element name="DownloadConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="featureName" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**featureName:** A string that contains the feature name of the configuration.

#### 3.3.5.22.2.2 DownloadConfigurationResponse

This element specifies input values for the **DownloadConfiguration** operation.

```
<xs:element name="DownloadConfigurationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="DownloadConfigurationResult"
        xmlns:q5="http://schemas.microsoft.com/Message" type="q5:StreamBody" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DownloadConfigurationResult:** A **StreamBody** (section [2.2.5.3.3](#)) simple type that contains the result of downloading the configuration.

### 3.3.6 Timer Events

None.

### 3.3.7 Other Local Events

None.

## 3.4 Machine Identity Provider Service Contract Details

### 3.4.1 Abstract Data Model

This section describes a conceptual service contract that an implementation maintains to participate in this protocol. The described operations of the service contract are provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this service contract as long as their external behavior is consistent with how it is described in this document.

#### 3.4.1.1 Machine Identity

The protocol server saves certificates issued for each add machine request, and get machine identity status from the system certificates store.

#### 3.4.1.2 Machine RDP Permission

The protocol server maintains the user-computer RDP permission allowance mapping that tells who has permission to connect to which machine using remote desktop. This can be achieved by creating one Activate Directory security group for each machine and then joining the allowed users to the group.

### 3.4.2 Timers

None.

### 3.4.3 Initialization

None.

### 3.4.4 Higher-Layer Triggered Events

None.

### 3.4.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IMachineIdentityProviderCallback.ReturnNewCertResponse</a>	Callback for the New Certificate Response.
<a href="#">IMachineIdentityProviderCallback.ReturnRenewCert</a>	Callback for the Renew New Certificate.
<a href="#">IMachineIdentityProviderCallback.ReturnSid</a>	Callback for the machine SID. This happens only when a new machine is added to the Colorado system and the machine connects with the server. SID is the ID for this machine.
<a href="#">IMachineIdentityProviderCallback.ReturnRevokeCert</a>	Callback for the Revoke Certificate.

OperationContract	Description
<a href="#">IMachineIdentityProviderCallback.ReturnRemoveMachine</a>	Callback to remove a machine. This happens after the connection between the server and client terminates.
<a href="#">IMachineIdentityProviderCallback.ReturnGetMachineStatus</a>	Get the machine status.
<a href="#">IMachineIdentityProviderCallback.ReturnMakeUserRemoteDesktopMapping</a>	Callback for the MakeUserRemoteDesktopMapping operation.
<a href="#">IMachineIdentityProvider.RemoveMachine</a>	Remove machine from the managed network. This is called from the server side.
<a href="#">IMachineIdentityProvider.RenewCert</a>	Renew the caller's certificate.
<a href="#">IMachineIdentityProvider.RevokeCert</a>	Revoke the caller's certificate.
<a href="#">IMachineIdentityProvider.GenerateCertResponse</a>	This function is called by Enroll WebService. UserName/Password required to authenticate the user.
<a href="#">IMachineIdentityProvider.GenerateSid</a>	Generate the SID for the machine. UserName/Password required to authenticate the user.
<a href="#">IMachineIdentityProvider.GetMachineStatus</a>	Returns the status of machine named by the callback.
<a href="#">IMachineIdentityProvider.MakeUserRemoteDesktopMapping</a>	Map a user to a particular remote desktop computer.

### 3.4.5.1 IMachineIdentityProvider.ReturnNewCertResponse

This operation is the callback for the **IMachineIdentityProvider.GenerateCertResponse** operation.

```
<wsdl:operation name="ReturnNewCertResponse">
  <wsdl:output
    wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnNewCertResponse"
    message="tns:IMachineIdentityProvider_ReturnNewCertResponse_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.4.5.1.1 Messages

##### 3.4.5.1.1.1 IMachineIdentityProvider\_ReturnNewCertResponse\_OutputCallbackMessage

This is the request for the **ReturnNewCertResponse** operation.

```
<wsdl:message name="IMachineIdentityProviderCallback_ReturnNewCertResponse_OutputMessage">
  <wsdl:part name="parameters" element="tns:ReturnNewCertResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

<http://tempuri.org/IMachineIdentityProvider/ReturnNewCertResponse>

The body of the SOAP message MUST contain the **ReturnNewCertResponse** element.

### 3.4.5.1.2 Elements

#### 3.4.5.1.2.1 ReturnNewCertResponse

This element specifies input values for the **ReturnNewCertResponse** operation. This operation MUST NOT be invoked by the management client and MUST be ignored by the server.

```
<xs:element name="ReturnNewCertResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="newCert" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="returnCode" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" type="q1:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**newCert:** A string that contains the new certificate response.

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.2 IMachineIdentityProvider.ReturnRenewCert

This operation is the callback for the **IMachineIdentityProvider.RenewCert** operation. This operation MUST NOT be invoked by the management client and MUST be ignored by the server.

```
<wsdl:operation name="ReturnRenewCert">
  <wsdl:output wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnRenewCert"
message="tns:IMachineIdentityProvider_ReturnRenewCert_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.4.5.2.1 Messages

##### 3.4.5.2.1.1 IMachineIdentityProvider\_ReturnRenewCert\_OutputCallbackMessage

This is the request for the **ReturnRenewCert** operation.

```
<wsdl:message name="IMachineIdentityProvider_ReturnRenewCert_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnRenewCert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://tempuri.org/IMachineIdentityProvider/ReturnRenewCert>

The body of the SOAP message MUST contain the **ReturnRenewCert** element.

#### 3.4.5.2.2 Elements

### 3.4.5.2.2.1 ReturnRenewCert

This element specifies input values for the **ReturnRenewCert** operation.

```
<xs:element name="ReturnRenewCert">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="newCert" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="returnCode" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" type="q2:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**newCert:** A string that contains the response to the certificate renewal attempt.

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.3 IMachineIdentityProvider.ReturnSid

This operation is the callback for the **IMachineIdentityProvider.GenerateSid** operation.

```
<wsdl:operation name="ReturnSid">
  <wsdl:output wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnSid"
message="tns:IMachineIdentityProvider_ReturnSid_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.4.5.3.1 Messages

##### 3.4.5.3.1.1 IMachineIdentityProvider\_ReturnSid\_OutputCallbackMessage

This is the request for the **ReturnSid** operation.

```
<wsdl:message name="IMachineIdentityProvider_ReturnSid_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnSid" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/ReturnSid
```

The body of the SOAP message **MUST** contain the **ReturnSid** element.

#### 3.4.5.3.2 Elements

##### 3.4.5.3.2.1 ReturnSid

This element specifies input values for the **ReturnSid** operation.

```
<xs:element name="ReturnSid">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="sid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```

    <xs:element minOccurs="0" name="returnCode" nillable="true"
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" type="q3:ReturnClass" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**sid:** A string that contains the security identifier of the response.

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.4 IMachineIdentityProvider.ReturnRevokeCert

This operation is the callback for the **IMachineIdentityProvider.RevokeCert** operation.

```

<wsdl:operation name="ReturnRevokeCert">
  <wsdl:output wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnRevokeCert"
message="tns:IMachineIdentityProvider_ReturnRevokeCert_OutputCallbackMessage" />
</wsdl:operation>

```

#### 3.4.5.4.1 Messages

##### 3.4.5.4.1.1 IMachineIdentityProvider\_ReturnRevokeCert\_OutputCallbackMessage

This is the request for the **ReturnRevokeCert** operation.

```

<wsdl:message name="IMachineIdentityProvider_ReturnRevokeCert_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnRevokeCert" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```

http://tempuri.org/IMachineIdentityProvider/ReturnRevokeCert

```

The body of the SOAP message **MUST** contain the **ReturnRevokeCert** element.

#### 3.4.5.4.2 Elements

##### 3.4.5.4.2.1 ReturnRevokeCert

This element specifies input values for the **ReturnRevokeCert** operation.

```

<xs:element name="ReturnRevokeCert">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="returnCode" nillable="true"
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" type="q4:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.5 IMachineIdentityProvider.ReturnRemoveMachine

This operation is the callback for the **IMachineIdentityProvider.RemoveMachine** operation [<13>](#).

```
<wsdl:operation name="ReturnRemoveMachine">
  <wsdl:output wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnRemoveMachine"
    message="tns:IMachineIdentityProvider_ReturnRemoveMachine_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.4.5.5.1 Messages

##### 3.4.5.5.1.1 IMachineIdentityProvider\_ReturnRemoveMachine\_OutputCallbackMessage

This is the request for the **ReturnRemoveMachine** operation.

```
<wsdl:message name="IMachineIdentityProvider_ReturnRemoveMachine_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnRemoveMachine" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/ReturnRemoveMachine
```

The body of the SOAP message MUST contain the **ReturnRemoveMachine** element.

#### 3.4.5.5.2 Elements

##### 3.4.5.5.2.1 ReturnRemoveMachine

This element specifies input values for the **ReturnRemoveMachine** operation.

```
<xs:element name="ReturnRemoveMachine">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="returnCode" nillable="true"
        xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" type="q5:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.6 IMachineIdentityProvider.ReturnGetMachineStatus

This operation is the callback for the **IMachineIdentityProvider.GetMachineStatus** operation.

```
<wsdl:operation name="ReturnGetMachineStatus">
```

```

    <wsdl:output
      wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnGetMachineStatus"
      message="tns:IMachineIdentityProvider_ReturnGetMachineStatus_OutputCallbackMessage" />
  </wsdl:operation>

```

### 3.4.5.6.1 Messages

#### 3.4.5.6.1.1 IMachineIdentityProvider\_ReturnGetMachineStatus\_OutputCallbackMessage

This is the request for the **ReturnGetMachineStatus** operation.

```

<wsdl:message name="IMachineIdentityProvider_ReturnGetMachineStatus_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnGetMachineStatus" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.  
<http://tempuri.org/IMachineIdentityProvider/ReturnGetMachineStatus>

The body of the SOAP message MUST contain the **ReturnGetMachineStatus** element.

### 3.4.5.6.2 Elements

#### 3.4.5.6.2.1 ReturnGetMachineStatus

This element specifies input values for the **ReturnGetMachineStatus** operation.

```

<xs:element name="ReturnGetMachineStatus">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="status" nillable="true"
        xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" type="q6:GetMachineStatusType" />
      <xs:element minOccurs="0" name="returnCode" nillable="true"
        xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" type="q7:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**status:** A **GetMachineStatusType** (section [2.2.4.4.2](#)) complex type that contains the status of the specified machine.

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.7 IMachineIdentityProvider.ReturnMakeUserRemoteDesktopMapping

This operation is the callback for the **IMachineIdentityProvider.MakeUserRemoteDesktopMapping** operation.

```

<wsdl:operation name="ReturnMakeUserRemoteDesktopMapping">
  <wsdl:output
    wsam:Action="http://tempuri.org/IMachineIdentityProvider/ReturnMakeUserRemoteDesktopMapping"
    message="tns:IMachineIdentityProvider_ReturnMakeUserRemoteDesktopMapping_OutputCallbackMessage" />
  </wsdl:operation>

```

### 3.4.5.7.1 Messages

#### 3.4.5.7.1.1 IMachineIdentityProvider\_ReturnMakeUserRemoteDesktopMapping\_OutputCallbackMessage

This is the request for the **ReturnMakeUserRemoteDesktopMapping** operation.

```
<wsdl:message
  name="IMachineIdentityProvider_ReturnMakeUserRemoteDesktopMapping_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnMakeUserRemoteDesktopMapping" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/ReturnMakeUserRemoteDesktopMapping
```

The body of the SOAP message MUST contain the **ReturnMakeUserRemoteDesktopMapping** element.

### 3.4.5.7.2 Elements

#### 3.4.5.7.2.1 ReturnMakeUserRemoteDesktopMapping

This element specifies input values for the **ReturnMakeUserRemoteDesktopMapping** operation.

```
<xs:element name="ReturnMakeUserRemoteDesktopMapping">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="returnCode" nillable="true"
        xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" type="q8:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**returnCode:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code of the response.

### 3.4.5.8 IMachineIdentityProvider.RemoveMachine

This operation removes a machine from the managed network. [<14>](#)

```
<wsdl:operation name="RemoveMachine">
  <wsdl:input wsam:Action="http://tempuri.org/IMachineIdentityProvider/RemoveMachine"
    message="tns:IMachineIdentityProvider_RemoveMachine_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_RemoveMachine\_InputMessage** request message, the protocol server is notified to remove the specific machine. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.4.5.8.1 Messages

#### 3.4.5.8.1.1 IMachineIdentityProvider\_RemoveMachine\_InputMessage

This is the request for the **RemoveMachine** operation.

```
<wsdl:message name="IMachineIdentityProvider_RemoveMachine_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveMachine" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/RemoveMachine
```

The body of the SOAP message **MUST** contain the **RemoveMachine** element.

### 3.4.5.8.2 Elements

#### 3.4.5.8.2.1 RemoveMachine

This element specifies input values for the **RemoveMachine** operation.

```
<xs:element name="RemoveMachine">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="machineID" type="xs:string" />
      <xs:element minOccurs="0" name="serialNo" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**machineID:** A string that contains the ID of the machine to be removed.

**serialNo:** A string that contains the serial number of the machine to be removed.

### 3.4.5.9 IMachineIdentityProvider.RenewCert

This operation renews the caller's certificate.

```
<wsdl:operation name="RenewCert">
  <wsdl:input wsam:Action="http://tempuri.org/IMachineIdentityProvider/RenewCert"
  message="tns:IMachineIdentityProvider_RenewCert_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_RenewCert\_InputMessage** request message, the protocol server is notified to renew the caller's certificate. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.9.1 Messages

##### 3.4.5.9.1.1 IMachineIdentityProvider\_RenewCert\_InputMessage

This is the request for the **RenewCert** operation.

```
<wsdl:message name="IMachineIdentityProvider_RenewCert_InputMessage">
  <wsdl:part name="parameters" element="tns:RenewCert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/RenewCert
```

The body of the SOAP message MUST contain the **RenewCert** element.

### 3.4.5.9.2 Elements

#### 3.4.5.9.2.1 RenewCert

This element specifies input values for the **RenewCert** operation.

```
<xs:element name="RenewCert">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="strCSR" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**strCSR**: A string that contains the CSR for the certificate.

### 3.4.5.10 IMachineIdentityProvider.RevokeCert

This operation revokes the caller's certificate.

```
<wsdl:operation name="RevokeCert">
  <wsdl:output wsaw:Action="net.tcp://Microsoft.WindowsServerSolutions.Devices.Identity/
IMachineIdentityProvider/RevokeCertResponse"
message="IMachineIdentityProvider RevokeCert InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_RevokeCert\_InputMessage** request message, the protocol server is notified to revoke the caller's certificate. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.10.1 Messages

##### 3.4.5.10.1.1 IMachineIdentityProvider\_RevokeCert\_InputMessage

This is the response for the **RevokeCert** operation.

```
<wsdl:message name="IMachineIdentityProvider_RevokeCert_InputMessage">
  <wsdl:part name="parameters" element="tns:RevokeCert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/RevokeCert
```

The body of the SOAP message MUST contain the **RevokeCertResponse** element.

#### 3.4.5.10.2 Elements

### 3.4.5.10.2.1 RevokeCert

This element specifies input values for the **RevokeCert** operation. This element has no parameters.

```
<xs:element name="RevokeCert">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.4.5.11 IMachineIdentityProvider.GenerateCertResponse

This operation generates a certificate for a machine.

```
<wsdl:operation name="GenerateCertResponse">
  <wsdl:input wsam:Action="http://tempuri.org/IMachineIdentityProvider/GenerateCertResponse"
  message="tns:IMachineIdentityProvider_GenerateCertResponse_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_GenerateCertResponse\_InputMessage** request message, the protocol server is notified to generate a certificate for the machine. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.11.1 Messages

##### 3.4.5.11.1.1 IMachineIdentityProvider\_GenerateCertResponse\_InputMessage

This is the request for the **GenerateCertResponse** operation.

```
<wsdl:message name="IMachineIdentityProvider_GenerateCertResponse_InputMessage">
  <wsdl:part name="parameters" element="tns:GenerateCertResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/GenerateCertResponse
```

The body of the SOAP message MUST contain the **GenerateCertResponse** element.

#### 3.4.5.11.2 Elements

##### 3.4.5.11.2.1 GenerateCertResponse

This element specifies input values for the **GenerateCertResponse** operation.

```
<xs:element name="GenerateCertResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" type="xs:string" />
      <xs:element minOccurs="0" name="password" type="xs:string" />
      <xs:element minOccurs="0" name="strCSR" type="xs:string" />
      <xs:element minOccurs="0" name="machineName" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**username:** A string that contains the user name of the credential performing the operation.

**password:** A string that contains the password of the credential performing the operation.

**strCSR:** A string that contains the CSR for the certificate.

**machineName:** A string that contains the name of the machine to which the certificate is issued.

### 3.4.5.12 IMachineIdentityProvider.GenerateSid

This operation generates the SID for a machine.

```
<wsdl:operation name="GenerateSid">
  <wsdl:input wsam:Action="http://tempuri.org/IMachineIdentityProvider/GenerateSid"
  message="tns:IMachineIdentityProvider_GenerateSid_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_GenerateSid\_InputMessage** request message, the protocol server is notified to generate the SID for the machine. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.12.1 Messages

##### 3.4.5.12.1.1 IMachineIdentityProvider\_GenerateSid\_InputMessage

This is the request for the **GenerateSid** operation.

```
<wsdl:message name="IMachineIdentityProvider_GenerateSid_InputMessage">
  <wsdl:part name="parameters" element="tns:GenerateSid" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/GenerateSid
```

The body of the SOAP message MUST contain the **GenerateSid** element.

#### 3.4.5.12.2 Elements

##### 3.4.5.12.2.1 GenerateSid

This element specifies input values for the **GenerateSid** operation.

```
<xs:element name="GenerateSid">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" type="xs:string" />
      <xs:element minOccurs="0" name="password" type="xs:string" />
      <xs:element minOccurs="0" name="machineName" type="xs:string" />
      <xs:element minOccurs="0" name="bForce" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**username:** A string that contains the user name of the credential performing the operation.



**password:** A string that contains the password of the credential performing the operation.

**machineName:** A string that contains the name of the machine to which the certificate is issued.

**bForce:** A Boolean where TRUE indicates that the existing machine name will be overwritten; otherwise, the value is FALSE.

### 3.4.5.13 IMachineIdentityProvider.GetMachineStatus

This operation returns the status of the machine named by the callback.

```
<wsdl:operation name="GetMachineStatus">
  <wsdl:input wsam:Action="http://tempuri.org/IMachineIdentityProvider/GetMachineStatus"
    message="tns:IMachineIdentityProvider_GetMachineStatus_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_GetMachineStatus\_InputMessage** request message, the protocol server is notified to return the status of the machine. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.13.1 Messages

##### 3.4.5.13.1.1 IMachineIdentityProvider\_GetMachineStatus\_InputMessage

This is the request for the **GetMachineStatus** operation.

```
<wsdl:message name="IMachineIdentityProvider_GetMachineStatus_InputMessage">
  <wsdl:part name="parameters" element="tns:GetMachineStatus" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/GetMachineStatus
```

The body of the SOAP message MUST contain the **GetMachineStatus** element.

#### 3.4.5.13.2 Elements

##### 3.4.5.13.2.1 GetMachineStatus

This element specifies input values for the **GetMachineStatus** operation.

```
<xs:element name="GetMachineStatus">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" type="xs:string" />
      <xs:element minOccurs="0" name="password" type="xs:string" />
      <xs:element minOccurs="0" name="machineName" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**username:** A string that contains the user name of the credential performing the operation.

**password:** A string that contains the password of the credential performing the operation.

**machineName:** A string that contains the name of the machine to which the certificate is issued.

### 3.4.5.14 IMachineIdentityProvider.MakeUserRemoteDesktopMapping

This operation maps a user to a particular computer.

```
<wsdl:operation name="MakeUserRemoteDesktopMapping">
  <wsdl:input
    wsam:Action="http://tempuri.org/IMachineIdentityProvider/MakeUserRemoteDesktopMapping"
    message="tns:IMachineIdentityProvider_MakeUserRemoteDesktopMapping_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IMachineIdentityProvider\_MakeUserRemoteDesktopMapping\_InputMessage** request message, the protocol server is notified to map a user to a particular computer. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.4.5.14.1 Messages

##### 3.4.5.14.1.1 IMachineIdentityProvider\_MakeUserRemoteDesktopMapping\_InputMessage

This is the request for the **MakeUserRemoteDesktopMapping** operation.

```
<wsdl:message name="IMachineIdentityProvider_MakeUserRemoteDesktopMapping_InputMessage">
  <wsdl:part name="parameters" element="tns:MakeUserRemoteDesktopMapping" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IMachineIdentityProvider/MakeUserRemoteDesktopMapping
```

The body of the SOAP message MUST contain the **MakeUserRemoteDesktopMapping** element.

#### 3.4.5.14.2 Elements

##### 3.4.5.14.2.1 MakeUserRemoteDesktopMapping

This element specifies input values for the **MakeUserRemoteDesktopMapping** operation.

```
<xs:element name="MakeUserRemoteDesktopMapping">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**username:** A string that contains the name of the user that will be the owner of the remote machine.

### 3.4.6 Timer Events

None.

### 3.4.7 Other Local Events

None.

## 3.5 User Identity Provider Service Contract Details

### 3.5.1 Abstract Data Model

This section describes a conceptual service contract that an implementation maintains to participate in this protocol. The described operations of the service contract are provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this service contract as long as their external behavior is consistent with how it is described in this document.

#### 3.5.1.1 ADM\_KeyValueOfUser

This is a dictionary of user information for all domain users.

**Key:** The SID of the user.

**Value:** Information about the given user.

##### 3.5.1.1.1 Data Model

###### 3.5.1.1.1.1 UserInfo

Note that the UserInfo data model also has a corresponding SOAP complex type defined in section [2.2.4.5.2](#).

**FullName:** The domain/ServerName of the user. Mainly used in Launchpad.

**PersonalInfo:** Detailed personal information about the given user. The PersonalInfo type is defined in section [2.2.4.5.1](#); see also the details in section [3.5.1.1.1.1.1](#).

**UserName:** The name of the user.

**UserStatus:** The status of the user. The UserStatus type is defined in section [2.2.5.5.5](#).

**Warning:** The last error of import/update/add user.

**WindowsAccount:** The account of this user. [<15>](#)

**WindowsSID:** The SID of this user. [<16>](#)

###### 3.5.1.1.1.1.1 PersonalInfo

**AccessLevel:** The access level of the user. The AccessLevelType is defined in section [2.2.5.5.4](#).

**FirstName:** The first name of the user.

**IsBuiltIn:** TRUE if the user is built-in; otherwise FALSE.

**IsLocalUser:** TRUE if the user is local; otherwise FALSE.

**IsShowInUI:** TRUE if this user shows in the UI; otherwise FALSE.

**LastName:** The last name of the user.

**RemoteAccess:** The remote access status of the user. RemoteAccessType is defined in section [2.2.5.5.3](#).

**UserFolder:** The path of the shared folder belonging to this user.

**VpnAccess:** The VPN access status of the user. VPNAccessType is defined in section 2.2.5.5.3.

### 3.5.2 Timers

None.

### 3.5.3 Initialization

None.

### 3.5.4 Higher-Layer Triggered Events

None.

### 3.5.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IUserIdentityProvider.ChangePassword</a>	Change the user password.
<a href="#">IUserLogonProvider.LogonUser</a>	Log on a user (who provides the correct password) and display the requested UserInfo.
IUserChangePasswordProvider.ChangePassword	Change the user password.
<a href="#">IUserInfoProvider.ReturnGroups</a>	Callback to OM after GetGroups.
<a href="#">IUserInfoProvider.ReturnWSSServerGroups</a>	Callback to OM after GetWSSServerGroups.
<a href="#">IUserInfoProvider.ReturnIsPartOfServerUsers</a>	Callback to OM after IsPartOfServerUsers.
<a href="#">IUserInfoProvider.GetGroups</a>	Get groups for the current user.
<a href="#">IUserInfoProvider.GetWSSServerGroups</a>	Get WSSServer Groups for the current user.
<a href="#">IUserInfoProvider.IsPartOfServerUsers</a>	Check whether the use is server users.

#### 3.5.5.1 IUserLogonProvider.LogonUser

This operation logs a user on and displays the requested UserInfo. [<17>](#)

```
<wsdl:operation name="LogonUser">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
    3/2010/IUserLogonProvider/LogonUser" message="tns:IUserLogonProvider LogonUser InputMessage"
  />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
    3/2010/IUserLogonProvider/LogonUserResponse"
    message="tns:IUserLogonProvider_LogonUser_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
    3/2010/IUserLogonProvider/LogonUserUserFaultFault" name="UserFaultFault"
    message="tns:IUserLogonProvider_LogonUser_UserFaultFault_FaultMessage" />
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserExceptionFaultFault" name="UserExceptionFaultFault"
message="tns:IUserLogonProvider_LogonUser_UserExceptionFaultFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserExceptionFault" name="UserExceptionFault"
message="tns:IUserLogonProvider_LogonUser_UserExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IUserLogonProvider\_LogonUser\_InputMessage** request message, the protocol server logs on the user if they provided the correct password. Upon successful completion of the action, the server MUST respond with **IUserLogonProvider\_LogonUser\_OutputMessage**, which includes the user information object. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.5.5.1.1 Messages

#### 3.5.5.1.1.1 IUserLogonProvider\_LogonUser\_InputMessage

This is the request for the **LogonUser** operation.

```

<wsdl:message name="IUserLogonProvider_LogonUser_InputMessage">
  <wsdl:part name="parameters" element="tns:LogonUser" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserL
ogonProvider/LogonUser

```

The body of the SOAP message MUST contain the **LogonUser** element.

#### 3.5.5.1.1.2 IUserLogonProvider\_LogonUser\_OutputMessage

This is the response for the **LogonUser** operation.

```

<wsdl:message name="IUserLogonProvider_LogonUser_OutputMessage">
  <wsdl:part name="parameters" element="tns:LogonUserResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserI
dentityProvider/LogonUserResponse

```

The body of the SOAP message MUST contain the **LogonUserResponse** element.

### 3.5.5.1.2 Elements

#### 3.5.5.1.2.1 LogonUser

This element specifies input values for the **LogonUser** operation.

```

<xs:element name="LogonUser">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="bCleanSession" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**username:** A string that contains the name of the user that is attempting to log on.

**password:** A string that contains the password of the user that is attempting to log on.

**bCleanSession:** A Boolean where TRUE indicates that the session should be cleaned; otherwise, the value is FALSE.

### 3.5.5.1.2.2 LogonUserResponse

This element specifies output values for the **LogonUser** operation.

```

<xs:element name="LogonUserResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="LogonUserResult" nillable="true"
        xmlns:ql="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
        type="ql:UserInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**LogonUserResult:** A **UserInfo** (section [2.2.4.5.2](#)) complex type that contains the result of the specified user's logon attempt.

### 3.5.5.2 IUserChangePasswordProvider.ChangePassword

This operation changes a user's password. [<18>](#)

```

<wsdl:operation name="ChangePassword">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserChangePasswordProvider/ChangePassword" message="tns:IUserChangePasswordProvider_ChangePassword_InputMessage" />
  <wsdl:output
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserChangePasswordProvider/ChangePasswordResponse" message="tns:IUserChangePasswordProvider_ChangePassword_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserChangePasswordProvider/ChangePasswordUserExceptionFault"
    name="UserExceptionFault" message="tns:IUserChangePasswordProvider_ChangePassword_UserExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserChangePasswordProvider/ChangePasswordUserExceptionFaultFault"
    name="UserExceptionFaultFault" message="tns:IUserChangePasswordProvider_ChangePassword_UserExceptionFaultFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserChangePasswordProvider/ChangePasswordUserFaultFault" name="UserFaultFault"
    message="tns:IUserChangePasswordProvider_ChangePassword_UserFaultFault_FaultMessage" />

```

```
</wsdl:operation>
```

Upon receiving the **IUserChangePasswordProvider\_ChangePassword\_InputMessage** request message, the protocol server changes the specified user's password. Upon successful completion of the action, the server **MUST** respond with **IUserChangePasswordProvider\_ChangePassword\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

### 3.5.5.2.1 Messages

#### 3.5.5.2.1.1 IUserChangePasswordProvider\_ChangePassword\_InputMessage

This is the request for the **ChangePassword** operation.

```
<wsdl:message name="IUserChangePasswordProvider_ChangePassword_InputMessage">
  <wsdl:part name="parameters" element="tns:ChangePassword" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserC
hangePasswordProvider/ChangePassword
```

The body of the SOAP message **MUST** contain the **ChangePassword** element.

#### 3.5.5.2.1.2 IUserChangePasswordProvider\_ChangePassword\_OutputMessage

This is the response for the **ChangePassword** operation.

```
<wsdl:message name="IUserChangePasswordProvider_ChangePassword_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangePasswordResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserC
hangePasswordProvider/ChangePasswordResponse
```

The body of the SOAP message **MUST** contain the **ChangePasswordResponse** element.

### 3.5.5.2.2 Elements

#### 3.5.5.2.2.1 ChangePassword

This element specifies input values for the **ChangePassword** operation.

```
<xs:element name="ChangePassword">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="oldPassword" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="newPassword" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**username:** A string that contains the name of the user whose password will be changed.

**oldPassword:** A string that contains the specified user's old password.

**newPassword:** A string that contains the specified user's new password.

### 3.5.5.2.2 ChangePasswordResponse

This element specifies output values for the **ChangePassword** operation.

```
<xs:element name="ChangePasswordResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ChangePasswordResult" type="UserInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ChangePasswordResult:** A **UserInfo** (section [2.2.4.5.2](#)) complex type that contains the result of the password change attempt.

### 3.5.5.3 IUserInfoProvider.ReturnGroups

This operation is a callback for the **IUserInfoProvider.GetGroups** operation. This operation **MUST NOT** be invoked by the management client and **MUST** be ignored by the server.

```
<wsdl:operation name="ReturnGroups">
  <wsdl:output
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/ReturnGroups"
    message="tns:IUserInfoProvider_ReturnGroups_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_ReturnGroups\_OutputCallbackMessage** request message, the protocol client performs the following processing steps. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the server as specified in section [2.2.2.1](#).

#### 3.5.5.3.1 Messages

##### 3.5.5.3.1.1 IUserInfoProvider\_ReturnGroups\_OutputCallbackMessage

This is the request for the **ReturnGroups** operation.

```
<wsdl:message name="IUserInfoProviderCallback_ReturnGroups_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnGroups" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProviderCallback/ReturnGroups
```



The body of the SOAP message MUST contain the **ReturnGroups** element.

### 3.5.5.3.2 Elements

#### 3.5.5.3.2.1 ReturnGroups

This element specifies input values for the **ReturnGroups** operation.

```
<xs:element name="ReturnGroups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="groups" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q1:ArrayOfstring"
/>
      <xs:element minOccurs="0" name="ret" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
type="q2:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**groups:** An array of strings that contains the server groups to which the current user belongs.

**ret:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type representing the return code from the operation.

#### 3.5.5.4 IUserInfoProvider.ReturnWSSServerGroups

This operation is callback for the **IUserInfoProvider.GetWSSServerGroups** operation. This operation MUST NOT be invoked by the management client and MUST be ignored by the server.

```
<wsdl:operation name="ReturnWSSServerGroups">
  <wsdl:output>
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/ReturnWSSServerGroups"
message="tns:IUserInfoProvider_ReturnWSSServerGroups_OutputCallbackMessage" />
  </wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_ReturnWSSServerGroups\_OutputCallbackMessage** request message, the protocol client performs the following processing steps. In the event of a failure, an appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.5.5.4.1 Messages

##### 3.5.5.4.1.1 IUserInfoProvider\_ReturnWSSServerGroups\_OutputCallbackMessage

This is the request for the **ReturnWSSServerGroups** operation.

```
<wsdl:message name="IUserInfoProviderCallback_ReturnWSSServerGroups_OutputCallbackMessage">
  <wsdl:part name="parameters" element="ReturnWSSServerGroups" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://Microsoft.WindowsServerSolutions.Users/IUserInfoProviderCallback/ReturnWSSServerGroups
```

The body of the SOAP message MUST contain the **ReturnWSSServerGroups** element.

### 3.5.5.4.2 Elements

#### 3.5.5.4.2.1 ReturnWSSServerGroups

This element specifies input values for the **ReturnWSSServerGroups** operation.

```
<xs:element name="ReturnWSSServerGroups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="groups" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
        type="q3:ArrayOfWSSServerGroupType" />
      <xs:element minOccurs="0" name="ret" nillable="true"
        xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
        type="q4:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**groups:** An array of **WSSServerGroupType** (section [2.2.5.5.1](#)) strings that contains the server groups to which the current user belongs.

**ret:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type representing the return code from the operation.

#### 3.5.5.5 IUserInfoProvider.ReturnIsPartOfServerUsers

This operation is a callback for the **IUserInfoProvider.IsPartOfServerUsers** operation. This operation MUST NOT be invoked by the management client and MUST be ignored by the server.

```
<wsdl:operation name="ReturnIsPartOfServerUsers">
  <wsdl:output
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/ReturnIsPartOfServerUsers"
    message="tns:IUserInfoProvider_ReturnIsPartOfServerUsers_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_ReturnIsPartOfServerUsers\_OutputCallbackMessage** request message, the protocol client performs the following processing steps. In the event of a failure, an appropriate SOAP fault MUST be sent to the server as specified in section [2.2.2.1](#).

#### 3.5.5.5.1 Messages

##### 3.5.5.5.1.1 IUserInfoProvider\_ReturnIsPartOfServerUsers\_OutputCallbackMessage

This is the request for the **ReturnIsPartOfServerUsers** operation.

```
<wsdl:message
  name="IUserInfoProviderCallback_ReturnIsPartOfServerUsers_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnIsPartOfServerUsers" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProviderCallback/ReturnIsPartOfServerUsers>

The body of the SOAP message MUST contain the **ReturnIsPartOfServerUsers** element.

### 3.5.5.5.2 Elements

#### 3.5.5.5.2.1 ReturnIsPartOfServerUsers

This element specifies input values for the **ReturnIsPartOfServerUsers** operation.

```
<xs:element name="ReturnIsPartOfServerUsers">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="bIsPartOfServerUsers" type="xs:boolean" />
      <xs:element minOccurs="0" name="ret" nillable="true"
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
type="q5:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**bIsPartOfServerUsers:** A Boolean where TRUE indicates that the current user is a part of server users; otherwise, the value is FALSE.

**ret:** A **ReturnClass** (section [2.2.4.5.5](#)) complex type that contains the return code from the operation.

### 3.5.5.6 IUserInfoProvider.GetGroups

This operation returns the groups for the current user.

```
<wsdl:operation name="GetGroups">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/GetGroups" message="tns:IUserInfoProvider GetGroups InputMessage" />
</wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_GetGroups\_InputMessage** request message, the protocol server starts to get the groups for current user. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.5.5.6.1 Messages

##### 3.5.5.6.1.1 IUserInfoProvider\_GetGroups\_InputMessage

This is the request for the **GetGroups** operation.

```
<wsdl:message name="IUserInfoProvider_GetGroups_InputMessage">
  <wsdl:part name="parameters" element="tns:GetGroups" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/GetGroups>

The body of the SOAP message MUST contain the **GetGroups** element.

### 3.5.5.6.2 Elements

#### 3.5.5.6.2.1 GetGroups

This element specifies input values for the **GetGroups** operation. This element has no parameters.

```
<xs:element name="GetGroups">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.5.5.7 IUserInfoProvider.GetWSSServerGroups

This operation returns the WSSServer groups for the current user.

```
<wsdl:operation name="GetWSSServerGroups">
  <wsdl:input
  wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
  3/2010/IUserInfoProvider/GetWSSServerGroups"
  message="tns:IUserInfoProvider_GetWSSServerGroups_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_GetWSSServerGroups\_InputMessage** request message, the protocol server starts to get the WSSServer Groups for current user. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.5.5.7.1 Messages

##### 3.5.5.7.1.1 IUserInfoProvider\_GetWSSServerGroups\_InputMessage

This is the request for the **GetWSSServerGroups** operation.

```
<wsdl:message name="IUserInfoProvider_GetWSSServerGroups_InputMessage">
  <wsdl:part name="parameters" element="tns:GetWSSServerGroups" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

<http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/GetWSSServerGroups>

The body of the SOAP message MUST contain the **GetWSSServerGroups** element.

### 3.5.5.7.2 Elements

#### 3.5.5.7.2.1 GetWSSServerGroups

This element specifies input values for the **GetWSSServerGroups** operation. This element has no parameters.

```
<xs:element name="GetWSSServerGroups">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.5.5.8 IUserInfoProvider.IsPartOfServerUsers

This operation returns a value indicating whether the user is a member of the set of server users.

```
<wsdl:operation name="IsPartOfServerUsers">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserInfoProvider/IsPartOfServerUsers"
message="tns:IUserInfoProvider_IsPartOfServerUsers_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IUserInfoProvider\_IsPartOfServerUsers\_InputMessage** request message, the protocol server starts to get a Boolean indicating whether the current user is part of server users. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.5.5.8.1 Messages

##### 3.5.5.8.1.1 IUserInfoProvider\_IsPartOfServerUsers\_InputMessage

This is the request for the **IsPartOfServerUsers** operation.

```
<wsdl:message name="IUserInfoProvider_IsPartOfServerUsers_InputMessage">
  <wsdl:part name="parameters" element="tns:IsPartOfServerUsers" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/IUserI
nfoProvider/IsPartOfServerUsers
```

The body of the SOAP message MUST contain the **IsPartOfServerUsers** element.

#### 3.5.5.8.2 Elements

##### 3.5.5.8.2.1 IsPartOfServerUsers

This element specifies input values for the **IsPartOfServerUsers** operation. This element has no parameters.

```
<xs:element name="IsPartOfServerUsers">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.5.6 Timer Events

None.

### 3.5.7 Other Local Events

None.

## 3.6 Provider Registry Service Contract Details

### 3.6.1 Abstract Data Model

None.

### 3.6.2 Timers

None.

### 3.6.3 Initialization

None.

### 3.6.4 Higher-Layer Triggered Events

None.

### 3.6.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IProviderRegistry.Disconnect</a>	Signal the <b>ProviderRegistryService</b> that the connection is terminating.
<a href="#">IProviderRegistry.Query</a>	Return a list of <b>ProviderInfo</b> data for a given contract.
<a href="#">IProviderRegistry.QueryAll</a>	Get all registered providers.
<a href="#">IProviderRegistry.RequestProviderInfoUpdate</a>	Request an update for specific providers.
<a href="#">IProviderRegistry.GetVersion</a>	Get the provider version.
<a href="#">IProviderRegistry.InformOfProviderUpdate</a>	Send an updated <b>ProviderInfo</b> object to the connected client.
<a href="#">INotificationProviderServiceAdminOnly.Connect</a>	Connect to the notification provider.
<a href="#">INotificationProviderServiceAdminOnly.RaiseNotifications</a>	Send persistent notifications to be raised on the provider.
<a href="#">INotificationProviderServiceAdminOnly.ClearNotifications</a>	Send persistent notifications to be cleared on the provider.
<a href="#">INotificationProviderServiceAdminOnly.RequestNotificationChange</a>	Request a change to the specified persistent notification.
<a href="#">INotificationProviderServiceAdminOnly.FireEvent</a>	Send a one-time notification to be raised on the provider.

OperationContract	Description
<a href="#">INotificationProviderServiceAdminOnly.AddCategoryFilters</a>	Indicate that the caller is interested in additional categories of notifications.
<a href="#">INotificationProviderServiceAdminOnly.RemoveCategoryFilters</a>	Indicate that the caller is no longer interested in the specified categories.
<a href="#">INotificationProviderServiceAdminOnly.Disconnect</a>	Disconnect from the notification provider.

### 3.6.5.1 IProviderRegistry.Disconnect

This operation signals the **ProviderRegistryService** that the connection is terminating.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="true" name="Disconnect">
  <wsdl:input wsam:Action="http://tempuri.org/IProviderRegistryConnection/Disconnect"
    message="tns:IProviderRegistry Disconnect InputMessage" />
</wsdl:operation>
```

Upon receiving the **IProviderRegistry\_Disconnect\_InputMessage** request message, the protocol server is notified that the connection is terminating. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.1.1 Messages

##### 3.6.5.1.1.1 IProviderRegistry\_Disconnect\_InputMessage

This is the request for the **Disconnect** operation.

```
<wsdl:message name="IProviderRegistry Disconnect InputMessage">
  <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistryConnection/Disconnect
```

The body of the SOAP message MUST contain the **Disconnect** element.

#### 3.6.5.1.2 Elements

##### 3.6.5.1.2.1 Disconnect

This element specifies input values for the **Disconnect** operation. This element has no parameters.

```
<xs:element name="Disconnect">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.6.5.2 IProviderRegistry.Query

This operation returns a list of **ProviderInfo** data for a given contract.

```

<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Query">
  <wsdl:input wsam:Action="http://tempuri.org/IProviderRegistry/Query"
  message="tns:IProviderRegistry_Query_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IProviderRegistry/QueryResponse"
  message="tns:IProviderRegistry_Query_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **IProviderRegistry\_Query\_InputMessage** request message, the protocol server returns a list of **ProviderInfo** data for a given contract. Upon successful completion of the action, the server MUST respond with **IProviderRegistry\_Query\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.6.5.2.1 Messages

#### 3.6.5.2.1.1 IProviderRegistry\_Query\_InputMessage

This is the request for the **Query** operation.

```

<wsdl:message name="IProviderRegistry_Query_InputMessage">
  <wsdl:part name="parameters" element="tns:Query" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/Query
```

The body of the SOAP message MUST contain the **Query** element.

#### 3.6.5.2.1.2 IProviderRegistry\_Query\_OutputMessage

This is the response for the **Query** operation.

```

<wsdl:message name="IProviderRegistry_Query_OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/QueryResponse
```

The body of the SOAP message MUST contain the **QueryResponse** element.

### 3.6.5.2.2 Elements

#### 3.6.5.2.2.1 Query

This element specifies input values for the **Query** operation.

```

<xs:element name="Query">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="specification" nillable="true"
  xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.Pro
  viderFramework" type="q1:QuerySpecification" />

```



```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**specification:** A **QuerySpecification** (section [2.2.4.6.4](#)) complex type that contains details for the specified providers.

### 3.6.5.2.2.2 QueryResponse

This element specifies output values for the **Query** operation.

```
<xs:element name="QueryResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="QueryResult" nillable="true"
xmlns:q2="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFr
amework" type="q2:ArrayOfProviderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**QueryResult:** An array of **ProviderInfo** (section [2.2.4.6.2](#)) complex types that contains the results of the **Query** operation.

### 3.6.5.3 IProviderRegistry.QueryAll

This operation returns all registered providers.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="QueryAll">
  <wsdl:input wsam:Action="http://tempuri.org/IProviderRegistry/QueryAll"
message="tns:IProviderRegistry_QueryAll_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IProviderRegistry/QueryAllResponse"
message="tns:IProviderRegistry_QueryAll_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IProviderRegistry\_QueryAll\_InputMessage** request message, the protocol server returns the list of data for all providers. Upon successful completion of the action, the server **MUST** respond with **IProviderRegistry\_QueryAll\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.3.1 Messages

##### 3.6.5.3.1.1 IProviderRegistry\_QueryAll\_InputMessage

This is the request for the **QueryAll** operation.

```
<wsdl:message name="IProviderRegistry_QueryAll_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAll" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/QueryAll
```

The body of the SOAP message MUST contain the **QueryAll** element.

### 3.6.5.3.1.2 IProviderRegistry\_QueryAll\_OutputMessage

This is the response for the **QueryAll** operation.

```
<wsdl:message name="IProviderRegistry QueryAll OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryAllResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/QueryAllResponse
```

The body of the SOAP message MUST contain the **QueryAllResponse** element.

### 3.6.5.3.2 Elements

#### 3.6.5.3.2.1 QueryAll

This element specifies input values for the **QueryAll** operation. This element has no parameters.

```
<xs:element name="QueryAll">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.6.5.3.2.2 QueryAllResponse

This element specifies output values for the **QueryAll** operation.

```
<xs:element name="QueryAllResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="QueryAllResult" nillable="true"
        xmlns:q3="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" type="q3:ArrayOfProviderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**QueryAllResult:** An array of **ProviderInfo** (section [2.2.4.6.2](#)) complex types that contains the results of the **QueryAll** operation.

### 3.6.5.4 IProviderRegistry.RequestProviderInfoUpdate

This operation requests an update for specific providers.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
  name="RequestProviderInfoUpdate">
  <wsdl:input wsam:Action="http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdate"
    message="tns:IProviderRegistry_RequestProviderInfoUpdate_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdateResponse"
    message="tns:IProviderRegistry_RequestProviderInfoUpdate_OutputMessage" />
```

```
</wsdl:operation>
```

Upon receiving the **IProviderRegistry\_RequestProviderInfoUpdate\_InputMessage** request message, the protocol server performs an update for specific providers. Upon successful completion of the action, the server MUST respond with

**IProviderRegistry\_RequestProviderInfoUpdate\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.6.5.4.1 Messages

#### 3.6.5.4.1.1 IProviderRegistry\_RequestProviderInfoUpdate\_InputMessage

This is the request for the **RequestProviderInfoUpdate** operation.

```
<wsdl:message name="IProviderRegistry_RequestProviderInfoUpdate_InputMessage">
  <wsdl:part name="parameters" element="tns:RequestProviderInfoUpdate" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdate
```

The body of the SOAP message MUST contain the **RequestProviderInfoUpdate** element.

#### 3.6.5.4.1.2 IProviderRegistry\_RequestProviderInfoUpdate\_OutputMessage

This is the response for the **RequestProviderInfoUpdate** operation.

```
<wsdl:message name="IProviderRegistry_RequestProviderInfoUpdate_OutputMessage">
  <wsdl:part name="parameters" element="tns:RequestProviderInfoUpdateResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdateResponse
```

The body of the SOAP message MUST contain the **RequestProviderInfoUpdateResponse** element.

### 3.6.5.4.2 Elements

#### 3.6.5.4.2.1 RequestProviderInfoUpdate

This element specifies input values for the **RequestProviderInfoUpdate** operation.

```
<xs:element name="RequestProviderInfoUpdate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="providersToUpdate" nillable="true"
        xmlns:q4="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" type="q4:ArrayOfProviderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

### 3.6.5.4.2.2 RequestProviderInfoUpdateResponse

This element specifies output values for the **RequestProviderInfoUpdate** operation.

```
<xs:element name="RequestProviderInfoUpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RequestProviderInfoUpdateResult" nillable="true"
        xmlns:q5="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" type="q5:ArrayOfProviderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**RequestProviderInfoUpdateResult:** An array of **ProviderInfo** (section [2.2.4.6.2](#)) complex types that contains the provider information update results.

### 3.6.5.5 IProviderRegistry.GetVersion

This operation returns the provider version number.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="GetVersion">
  <wsdl:input wsam:Action="http://tempuri.org/IProviderRegistry/GetVersion"
    message="tns:IProviderRegistry_GetVersion_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IProviderRegistry/GetVersionResponse"
    message="tns:IProviderRegistry_GetVersion_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IProviderRegistry\_GetVersion\_InputMessage** request message, the protocol server returns the version of the protocol server. Upon successful completion of the action, the server **MUST** respond with **IProviderRegistry\_GetVersion\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.5.1 Messages

##### 3.6.5.5.1.1 IProviderRegistry\_GetVersion\_InputMessage

This is the request for the **GetVersion** operation.

```
<wsdl:message name="IProviderRegistry_GetVersion_InputMessage">
  <wsdl:part name="parameters" element="tns:GetVersion" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://temporg.uri/IProviderRegistry/GetVersion
```

The body of the SOAP message **MUST** contain the **GetVersion** element.

##### 3.6.5.5.1.2 IProviderRegistry\_GetVersion\_OutputMessage

This is the response for the **GetVersion** operation.

```
<wsdl:message name="IProviderRegistry_GetVersion_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetVersionResponse" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPProviderRegistry/GetVersionResponse
```

The body of the SOAP message MUST contain the **GetVersionResponse** element.

### 3.6.5.5.2 Elements

#### 3.6.5.5.2.1 GetVersion

This element specifies input values for the **GetVersion** operation. This element has no parameters.

```
<xs:element name="GetVersion">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.6.5.5.2.2 GetVersionResponse

This element specifies output values for the **GetVersion** operation.

```
<xs:element name="GetVersionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVersionResult" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetVersionResult:** A string that contains the version of the specified provider.

### 3.6.5.6 IPProviderRegistry.InformOfProviderUpdate

This operation sends an updated **ProviderInfo** object to a connected client. This operation MUST NOT be invoked by the management client and MUST be ignored by the server.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="InformOfProviderUpdate">
  <wsdl:output wsam:Action="http://tempuri.org/IPProviderRegistry/InformOfProviderUpdate"
message="tns:IPProviderRegistry InformOfProviderUpdate OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IPProviderRegistry\_InformOfProviderUpdate\_OutputCallbackMessage** request message, the protocol client receives an updated **ProviderInfo** object. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.6.1 Messages

##### 3.6.5.6.1.1 IPProviderRegistry\_InformOfProviderUpdate\_OutputCallbackMessage

This is the request for the **InformOfProviderUpdate** operation.

```
<wsdl:message name="IProviderRegistry InformOfProviderUpdate OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:InformOfProviderUpdate" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/InformOfProviderUpdate
```

The body of the SOAP message MUST contain the **InformOfProviderUpdate** element.

### 3.6.5.6.2 Elements

#### 3.6.5.6.2.1 InformOfProviderUpdate

This element specifies input values for the **InformOfProviderUpdate** operation.

```
<xs:element name="InformOfProviderUpdate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="info" nillable="true"
xmlns:q6="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" type="q6:ProviderInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**info**: A **ProviderInfo** (section [2.2.4.6.2](#)) complex type that contains the updated information for the specified provider.

### 3.6.5.7 INotificationProviderServiceAdminOnly.Connect

This operation connects to the notification provider.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Connect">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/Connect"
message="tns:INotificationProviderServiceAdminOnly_Connect_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_Connect\_InputMessage** request message, the protocol server establishes a connection with the protocol client. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.7.1 Messages

##### 3.6.5.7.1.1 INotificationProviderServiceAdminOnly\_Connect\_InputMessage

This is the request for the **Connect** operation.

```
<wsdl:message name="INotificationProviderServiceAdminOnly_Connect_InputMessage">
  <wsdl:part name="parameters" element="tns:Connect" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/Connect
```

The body of the SOAP message MUST contain the **Connect** element.

### 3.6.5.7.2 Elements

#### 3.6.5.7.2.1 Connect

This element specifies input values for the **Connect** operation.

```
<xs:element name="Connect">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="categoryFilter" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q1:ArrayOfstring"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** A string that contains the name of the remote provider.

**categoryFilter:** An array of string values representing the notification categories that the caller is interested in receiving.

### 3.6.5.8 INotificationProviderServiceAdminOnly.RaiseNotifications

This operation raises persistent notifications on the provider.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false" name="RaiseNotifications">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/RaiseNotifications"
message="tns:INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_RaiseNotifications\_InputMessage** request message, the protocol server raises persistent notifications. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

If any notification already exists, it will be replaced.

#### 3.6.5.8.1 Messages

##### 3.6.5.8.1.1 INotificationProviderServiceAdminOnly\_RaiseNotifications\_InputMessage

This is the request for the **RaiseNotifications** operation.

```
<wsdl:message name="INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage">
  <wsdl:part name="parameters" element="tns:RaiseNotifications" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/RaiseNotifications
```

The body of the SOAP message MUST contain the **RaiseNotifications** element.

### 3.6.5.8.2 Elements

#### 3.6.5.8.2.1 RaiseNotifications

This element specifies input values for the **RaiseNotifications** operation.

```
<xs:element name="RaiseNotifications">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="newNotificationListChunk" nillable="true"
type="xs:base64Binary" />
      <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**newNotificationListChunk:** A BASE64 binary that contains the persistent notifications to be raised, in serialized and chunked format.

**moreData:** A Boolean where True indicates that there are more chunks coming; otherwise, the value is FALSE.

### 3.6.5.9 INotificationProviderServiceAdminOnly.ClearNotifications

This operation clears persistent notifications on the provider.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false" name="ClearNotifications">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/ClearNotifications"
message="tns:INotificationProviderServiceAdminOnly_ClearNotifications_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_ClearNotifications\_InputMessage** request message, the protocol server clears persistent notifications. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.9.1 Messages

##### 3.6.5.9.1.1 INotificationProviderServiceAdminOnly\_ClearNotifications\_InputMessage

This is the request for the **ClearNotifications** operation.

```
<wsdl:message name="INotificationProviderServiceAdminOnly_ClearNotifications_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearNotifications" />
</wsdl:message>
```



This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/ClearNotifications
```

The body of the SOAP message MUST contain the **ClearNotifications** element.

### 3.6.5.9.2 Elements

#### 3.6.5.9.2.1 ClearNotifications

This element specifies input values for the **ClearNotifications** operation.

```
<xs:element name="ClearNotifications">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="oldNotificationListChunk" nillable="true"
type="xs:base64Binary" />
      <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**oldNotificationListChunk:** A BASE64 binary that contains the persistent notifications to be raised, in serialized and chunked format.

**moreData:** A Boolean where TRUE indicates that there are more chunks coming; otherwise, the value is FALSE.

### 3.6.5.10 INotificationProviderServiceAdminOnly.RequestNotificationChange

This operation requests a change to the specified persistent notification.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RequestNotificationChange">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/INotificationProviderService/RequestNotificationChange"
message="tns:INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_RequestNotificationChange\_InputMessage** request message, the protocol server changes the persistent notification. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.10.1 Messages

##### 3.6.5.10.1.1 INotificationProviderServiceAdminOnly\_RequestNotificationChange\_InputMessage

This is the request for the **RequestNotificationChange** operation.

```
<wsdl:message
name="INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage">
  <wsdl:part name="parameters" element="tns:RequestNotificationChange" />
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/RequestNotificationChange
```

The body of the SOAP message MUST contain the **RequestNotificationChange** element.

### 3.6.5.10.2 Elements

#### 3.6.5.10.2.1 RequestNotificationChange

This element specifies input values for the **RequestNotificationChange** operation.

```
<xs:element name="RequestNotificationChange">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="changeRequestChunk" nillable="true"
type="xs:base64Binary" />
      <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**changeRequestChunk:** A BASE64 binary that contains the persistent notifications to be raised, in serialized and chunked format.

**moreData:** A Boolean where TRUE indicates that there are more chunks coming; otherwise, the value is FALSE.

### 3.6.5.11 INotificationProviderServiceAdminOnly.FireEvent

This operation sends a one-time notification to be raised on the provider.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false" name="FireEvent">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/FireEvent"
message="tns:INotificationProviderServiceAdminOnly_FireEvent_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_FireEvent\_InputMessage** request message, the protocol server raises a one-time notification. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.11.1 Messages

##### 3.6.5.11.1.1 INotificationProviderServiceAdminOnly\_FireEvent\_InputMessage

This is the request for the **FireEvent** operation.

```
<wsdl:message name="INotificationProviderServiceAdminOnly_FireEvent_InputMessage">
  <wsdl:part name="parameters" element="tns:FireEvent" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/FireEvent
```

The body of the SOAP message MUST contain the **FireEvent** element.

### 3.6.5.11.2 Elements

#### 3.6.5.11.2.1 FireEvent

This element specifies input values for the **FireEvent** operation.

```
<xs:element name="FireEvent">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="oneShotChunk" nillable="true" type="xs:base64Binary" />
      <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**oneShotChunk:** A BASE64 binary that contains the one-shot notification to be fired, in serialized and chunked format.

**moreData:** A Boolean where TRUE indicates that there are more chunks coming; otherwise, the value is FALSE.

### 3.6.5.12 INotificationProviderServiceAdminOnly.AddCategoryFilters

This operation indicates that the caller is interested in additional categories of filters.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false" name="AddCategoryFilters">
  <wsdl:input
    wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/AddCategoryFilters"
    message="tns:INotificationProviderServiceAdminOnly AddCategoryFilters InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_AddCategoryFilters\_InputMessage** request message, the protocol server treats the caller as being interested in additional categories of notifications. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.12.1 Messages

##### 3.6.5.12.1.1 INotificationProviderServiceAdminOnly\_AddCategoryFilters\_InputMessage

This is the request for the **AddCategoryFilters** operation.

```
<wsdl:message name="INotificationProviderServiceAdminOnly AddCategoryFilters InputMessage">
  <wsdl:part name="parameters" element="tns:AddCategoryFilters" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/AddCategoryFilters
```

The body of the SOAP message MUST contain the **AddCategoryFilters** element.

### 3.6.5.12.2 Elements

#### 3.6.5.12.2.1 AddCategoryFilters

This element specifies input values for the **AddCategoryFilters** operation.

```
<xs:element name="AddCategoryFilters">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="addFilters" nillable="true"
xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q2:ArrayOfstring" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**addFilters:** An array of string values representing the additional notification categories that the caller is interested in receiving.

### 3.6.5.13 INotificationProviderServiceAdminOnly.RemoveCategoryFilters

This operation indicates that the caller is no longer interested in the specified categories of Notifications.

```
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RemoveCategoryFilters">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/RemoveCategoryFilters"
message="tns:INotificationProviderServiceAdminOnly_RemoveCategoryFilters_InputMessage" />
</wsdl:operation>
```

Upon receiving the **INotificationProviderServiceAdminOnly\_RemoveCategoryFilters\_InputMessage** request message, the protocol server treats the caller as no longer being interested in additional categories of notifications. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.13.1 Messages

##### 3.6.5.13.1.1 INotificationProviderServiceAdminOnly\_RemoveCategoryFilters\_InputMessage

This is the request for the **RemoveCategoryFilters** operation.

```

<wsdl:message
name="INotificationProviderServiceAdminOnly_RemoveCategoryFilters_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveCategoryFilters" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/RemoveCategoryFilters

```

The body of the SOAP message MUST contain the **RemoveCategoryFilters** element.

### 3.6.5.13.2 Elements

#### 3.6.5.13.2.1 RemoveCategoryFilters

This element specifies input values for the **RemoveCategoryFilters** operation.

```

<xs:element name="RemoveCategoryFilters">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="removeFilters" nillable="true"
xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q3:ArrayOfstring"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**removeFilters:** An array of string values representing the notification categories that the caller is no longer interested in receiving.

### 3.6.5.14 INotificationProviderServiceAdminOnly.Disconnect

This operation disconnects from the notification provider.

```

<wsdl:operation msc:isInitiating="false" msc:isTerminating="true" name="Disconnect">
  <wsdl:input
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/Disconnect"
message="tns:INotificationProviderServiceAdminOnly_Disconnect_InputMessage" />
</wsdl:operation>

```

Upon receiving the **INotificationProviderServiceAdminOnly\_Disconnect\_InputMessage** request message, the protocol server disconnects the caller. In the event of a failure, the appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.6.5.14.1 Messages

##### 3.6.5.14.1.1 INotificationProviderServiceAdminOnly\_Disconnect\_InputMessage

This is the request for the **Disconnect** operation.

```

<wsdl:message name="INotificationProviderServiceAdminOnly_Disconnect_InputMessage">
  <wsdl:part name="parameters" element="tns:Disconnect" />

```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotificationProviderService/Disconnect
```

The body of the SOAP message MUST contain the **Disconnect** element.

### **3.6.5.14.2 Elements**

#### **3.6.5.14.2.1 Disconnect**

This element specifies input values for the **Disconnect** operation. This element has no parameters.

```
<xs:element name="Disconnect">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

### **3.6.6 Timer Events**

None.

### **3.6.7 Other Local Events**

None.

## **3.7 Addin Management Service Contract Details**

None.

### **3.7.1 Abstract Data Model**

None.

### **3.7.2 Timers**

None.

### **3.7.3 Initialization**

None.

### **3.7.4 Higher-Layer Triggered Events**

None.

### 3.7.5 Message Processing Events and Sequencing Rules

The following table specifies the message processing events and sequencing rules that are associated with this specification.

OperationContract	Description
<a href="#">IAddInMetadata.GetPackagePath</a>	Gets the server path where the add-in package will be copied.
<a href="#">IAddInMetadata.GetAddInIds</a>	Gets the installed and uninstalled add-ins.
<a href="#">IAddInMetadata.GetAddInInformation</a>	Gets details about the add-in.
<a href="#">IAddInMetadata.RegisterForChanges</a>	Registers for changes to the add-in infrastructure.
<a href="#">IAddInMetadata.OperationInProgress</a>	Checks whether there are any current installs or uninstalls that would block another operation.
<a href="#">IAddInMetadata.ChangeOccured</a>	Callback triggered when the metadata for an add-in has changed.
<a href="#">IAddInMetadataInstall.CheckCredentials</a>	Checks whether administrator credentials are valid by validating that the user is an administrator.
<a href="#">IAddInMetadataInstall.InstallAddIn</a>	Installs the given add-in.
<a href="#">IAddInMetadataInstall.DownloadInstallAddIn</a>	Downloads and installs the given add-in.
<a href="#">IAddInMetadataInstall.UninstallAddIn</a>	Uninstalls the add-in with the given ID. There is no effect if there is no add-in with that ID.
<a href="#">IAddInMetadataInstall.CancelOperation</a>	Cancels the current operation.
<a href="#">IAddInMetadataInstall.StartUploadAddinFile</a>	Starts the upload of the add-in with the given ID.
<a href="#">IAddInMetadataInstall.UploadAddinFile</a>	Uploads a chunk of a file.
<a href="#">IAddInMetadataInstall.EndUploadAddinFile</a>	Ends the upload of a file.
<a href="#">IAddInMetadataInstall.ProgressChanged</a>	Callback triggered when the progress for the given installation has changed, or the installation is complete.
<a href="#">IAddInMetadataInstall.ErrorOccured</a>	Callback triggered when an error has occurred during installation.
<a href="#">IAddInMetadataInstall.RebootRequired</a>	Callback triggered if the installation requires a reboot.
<a href="#">IAddInMetadataInstall.RestartDashboardRequired</a>	Callback triggered if the installation requires a restart of the dashboard.

#### 3.7.5.1 IAddInMetadata.GetPackagePath

This operation returns the server path where the add-in package will be copied.

```
<wsdl:operation name="GetPackagePath">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadata/GetPackagePath"
message="tns:IAddInMetadata_GetPackagePath_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/GetPackagePathResponse"
message="tns:IAddInMetadata_GetPackagePath_OutputMessage" />
</wsdl:operation>
```

```
<wsdl:fault wsam:Action="http://tempuri.org/IAddInMetadata/GetPackagePathAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadata_GetPackagePath_AddInErrorFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadata\_GetPackagePath\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadata\_GetPackagePath\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.7.5.1.1 Messages

#### 3.7.5.1.1.1 IAddInMetadata\_GetPackagePath\_InputMessage

This is the request for the **GetPackagePath** operation.

```
<wsdl:message name="IAddInMetadata_GetPackagePath_InputMessage">
  <wsdl:part name="parameters" element="tns:GetPackagePath" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetPackagePath
```

The body of the SOAP message MUST contain the **GetPackagePath** element.

#### 3.7.5.1.1.2 IAddInMetadata\_GetPackagePath\_OutputMessage

This is the response for the **GetPackagePath** operation.

```
<wsdl:message name="IAddInMetadata_GetPackagePath_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPackagePathResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetPackagePathResponse
```

The body of the SOAP message MUST contain the **GetPackagePathResponse** element.

### 3.7.5.1.2 Elements

#### 3.7.5.1.2.1 GetPackagePath

This element specifies input values for the **GetPackagePath** operation.

```
<xs:element name="GetPackagePath">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="packageId"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid" />
    </xs:sequence>
  </xs:complexType>
```



```
</xs:element>
```

**packageId:** A GUID representing the package ID.

### 3.7.5.1.2.2 GetPackagePathResponse

This element specifies output values for the **GetPackagePath** operation.

```
<xs:element name="GetPackagePathResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetPackagePathResult" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPackagePathResult:** A string that contains the path for the package.

### 3.7.5.2 IAddInMetadata.GetAddInIds

This operation returns the installed and uninstalled add-ins.

```
<wsdl:operation name="GetAddInIds">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInIds"
message="tns:IAddInMetadata_GetAddInIds_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInIdsResponse"
message="tns:IAddInMetadata_GetAddInIds_OutputMessage" />
  <wsdl:fault wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInIdsAddInErrorFault"
name="AddInErrorFault" message="tns:IAddInMetadata_GetAddInIds_AddInErrorFault_FaultMessage"
/>
</wsdl:operation>
```

Upon receiving the **IAddInMetadata\_GetAddInIds\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadata\_GetAddInIds\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.2.1 Messages

##### 3.7.5.2.1.1 IAddInMetadata\_GetAddInIds\_InputMessage

This is the request for the **GetAddInIds** operation.

```
<wsdl:message name="IAddInMetadata_GetAddInIds_InputMessage">
  <wsdl:part name="parameters" element="tns:GetAddInIds" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetAddInIds
```

The body of the SOAP message MUST contain the **GetAddInIds** element.

##### 3.7.5.2.1.2 IAddInMetadata\_GetAddInIds\_OutputMessage

This is the response for the **GetAddInIds** operation.

```
<wsdl:message name="IAddInMetadata_GetAddInIds_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetAddInIdsResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetAddInIdsResponse
```

The body of the SOAP message **MUST** contain the **GetAddInIdsResponse** element.

### 3.7.5.2.2 Elements

#### 3.7.5.2.2.1 GetAddInIds

This element specifies input values for the **GetAddInIds** operation. This element has no parameters.

```
<xs:element name="GetAddInIds">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.7.5.2.2.2 GetAddInIdsResponse

This element specifies output values for the **GetAddInIds** operation.

```
<xs:element name="GetAddInIdsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetAddInIdsResult" nillable="true"
        xmlns:q2="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
        type="q2:ReadOnlyCollectionOfguid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAddInIdsResult:** An array of GUIDs representing the AddIn IDs.

### 3.7.5.3 IAddInMetadata.GetAddInInformation

This operation returns details about an add-in.

```
<wsdl:operation name="GetAddInInformation">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInInformation"
    message="tns:IAddInMetadata_GetAddInInformation_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInInformationResponse"
    message="tns:IAddInMetadata_GetAddInInformation_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IAddInMetadata/GetAddInInformationAddInErrorFault"
    name="AddInErrorFault"
    message="tns:IAddInMetadata_GetAddInInformation_AddInErrorFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadata\_GetAddInInformation\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadata\_GetAddInInformation\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.7.5.3.1 Messages

#### 3.7.5.3.1.1 IAddInMetadata\_GetAddInInformation\_InputMessage

This is the request for the **GetAddInInformation** operation.

```
<wsdl:message name="IAddInMetadata_GetAddInInformation_InputMessage">
  <wsdl:part name="parameters" element="tns:GetAddInInformation" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetAddInInformation
```

The body of the SOAP message MUST contain the **GetAddInInformation** element.

#### 3.7.5.3.1.2 IAddInMetadata\_GetAddInInformation\_OutputMessage

This is the response for the **GetAddInInformation** operation.

```
<wsdl:message name="IAddInMetadata_GetAddInInformation_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetAddInInformationResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/GetAddInInformationResponse
```

The body of the SOAP message MUST contain the **GetAddInInformationResponse** element.

### 3.7.5.3.2 Elements

#### 3.7.5.3.2.1 GetAddInInformation

This element specifies input values for the **GetAddInInformation** operation.

```
<xs:element name="GetAddInInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="packageId"
        xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/" type="q3:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**packageId:** A GUID that represents the package Id.

#### 3.7.5.3.2.2 GetAddInInformationResponse

This element specifies output values for the **GetAddInInformation** operation.

```
<xs:element name="GetAddInInformationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetAddInInformationResult" nillable="true"
        xmlns:q4="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
        type="q4:PackageInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAddInInformationResult:** A **PackageInfo** (section [2.2.4.7.1](#)) complex type that contains the requested AddIn information.

### 3.7.5.4 IAddInMetadata.RegisterForChanges

This operation registers for changes to an add-in.

```
<wsdl:operation name="RegisterForChanges">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadata/RegisterForChanges"
    message="tns:IAddInMetadata_RegisterForChanges_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/RegisterForChangesResponse"
    message="tns:IAddInMetadata_RegisterForChanges_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadata\_RegisterForChanges\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadata\_RegisterForChanges\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.4.1 Messages

##### 3.7.5.4.1.1 IAddInMetadata\_RegisterForChanges\_InputMessage

This is the request for the **RegisterForChanges** operation.

```
<wsdl:message name="IAddInMetadata_RegisterForChanges_InputMessage">
  <wsdl:part name="parameters" element="tns:RegisterForChanges" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/RegisterForChanges
```

The body of the SOAP message MUST contain the **RegisterForChanges** element.

##### 3.7.5.4.1.2 IAddInMetadata\_RegisterForChanges\_OutputMessage

This is the response for the **RegisterForChanges** operation.

```
<wsdl:message name="IAddInMetadata_RegisterForChanges_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterForChangesResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/RegisterForChangesResponse
```

The body of the SOAP message MUST contain the **RegisterForChangesResponse** element.

### 3.7.5.4.2 Elements

#### 3.7.5.4.2.1 RegisterForChanges

This element specifies input values for the **RegisterForChanges** operation.

```
<xs:element name="RegisterForChanges">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="server" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**server:** A Boolean where TRUE indicates that server callbacks should be listened for; otherwise, the value is FALSE.

#### 3.7.5.4.2.2 RegisterForChangesResponse

This element specifies output values for the **RegisterForChanges** operation. This element has no parameters.

```
<xs:element name="RegisterForChangesResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.5 IAddInMetadata.OperationInProgress

This operation checks whether there are any active install or uninstall processes that would block another operation.

```
<wsdl:operation name="OperationInProgress">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadata/OperationInProgress"
  message="tns:IAddInMetadata_OperationInProgress_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/OperationInProgressResponse"
  message="tns:IAddInMetadata_OperationInProgress_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAddInMetadata/OperationInProgressAddInErrorFault"
  name="AddInErrorFault"
  message="tns:IAddInMetadata_OperationInProgress_AddInErrorFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadata\_OperationInProgress\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadata\_OperationInProgress\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.5.1 Messages

### 3.7.5.5.1.1 IAddInMetadata\_OperationInProgress\_InputMessage

This is the request for the **OperationInProgress** operation.

```
<wsdl:message name="IAddInMetadata_OperationInProgress_InputMessage">
  <wsdl:part name="parameters" element="tns:OperationInProgress" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/OperationInProgress
```

The body of the SOAP message MUST contain the **OperationInProgress** element.

### 3.7.5.5.1.2 IAddInMetadata\_OperationInProgress\_OutputMessage

This is the response for the **OperationInProgress** operation.

```
<wsdl:message name="IAddInMetadata_OperationInProgress_OutputMessage">
  <wsdl:part name="parameters" element="tns:OperationInProgressResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/OperationInProgressResponse
```

The body of the SOAP message MUST contain the **OperationInProgressResponse** element.

## 3.7.5.5.2 Elements

### 3.7.5.5.2.1 OperationInProgress

This element specifies input values for the **OperationInProgress** operation. This element has no parameters.

```
<xs:element name="OperationInProgress">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.5.2.2 OperationInProgressResponse

This element specifies output values for the **OperationInProgress** operation.

```
<xs:element name="OperationInProgressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="OperationInProgressResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**OperationInProgressResult:** A Boolean where TRUE indicates that the operation is in progress; otherwise, the value is FALSE.

### 3.7.5.6 IAddInMetadata.ChangeOccured

This callback operation is called when a change has occurred.

```
<wsdl:operation name="ChangeOccured">
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadata/ChangeOccured"
message="tns:IAddInMetadata_ChangeOccured_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.7.5.6.1 Messages

##### 3.7.5.6.1.1 IAddInMetadata\_ChangeOccured\_OutputCallbackMessage

This is the request for the **ChangeOccured** operation.

```
<wsdl:message name="IAddInMetadata_ChangeOccured_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ChangeOccured" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadata/ChangeOccured
```

The body of the SOAP message MUST contain the **ChangeOccured** element.

#### 3.7.5.6.2 Elements

##### 3.7.5.6.2.1 ChangeOccured

This element specifies input values for the **ChangeOccured** operation. This element has no parameters.

```
<xs:element name="ChangeOccured">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.7 IAddInMetadataInstall.CheckCredentials

This operation validates that the user is an administrator.

```
<wsdl:operation name="CheckCredentials">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentials"
message="tns:IAddInMetadataInstall_CheckCredentials_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentialsResponse"
message="tns:IAddInMetadataInstall_CheckCredentials_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentialsAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_CheckCredentials_AddInErrorFault_FaultMessage" />
</wsdl:operation>
```

```
</wsdl:operation>
```

Upon receiving the **IAddInMetadataInstall\_CheckCredentials\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadataInstall\_CheckCredentials\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.7.5.7.1 Messages

#### 3.7.5.7.1.1 IAddInMetadataInstall\_CheckCredentials\_InputMessage

This is the request for the **CheckCredentials** operation.

```
<wsdl:message name="IAddInMetadataInstall_CheckCredentials_InputMessage">  
  <wsdl:part name="parameters" element="tns:CheckCredentials" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/CheckCredentials
```

The body of the SOAP message MUST contain the **CheckCredentials** element.

#### 3.7.5.7.1.2 IAddInMetadataInstall\_CheckCredentials\_OutputMessage

This is the response for the **CheckCredentials** operation.

```
<wsdl:message name="IAddInMetadataInstall_CheckCredentials_OutputMessage">  
  <wsdl:part name="parameters" element="tns:CheckCredentialsResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/CheckCredentialsResponse
```

The body of the SOAP message MUST contain the **CheckCredentialsResponse** element.

### 3.7.5.7.2 Elements

#### 3.7.5.7.2.1 CheckCredentials

This element specifies input values for the **CheckCredentials** operation. This element has no parameters.

```
<xs:element name="CheckCredentials">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

#### 3.7.5.7.2.2 CheckCredentialsResponse



This element specifies output values for the **CheckCredentials** operation. This element has no parameters.

```
<xs:element name="CheckCredentialsResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.8 IAddInMetadataInstall.InstallAddIn

This operation installs the given add-in.

```
<wsdl:operation name="InstallAddIn">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/InstallAddIn"
  message="tns:IAddInMetadataInstall_InstallAddIn_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadataInstall\_InstallAddIn\_InputMessage** request message, the protocol server is notified that the connection is terminating. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.8.1 Messages

##### 3.7.5.8.1.1 IAddInMetadataInstall\_InstallAddIn\_InputMessage

This is the request for the **InstallAddIn** operation.

```
<wsdl:message name="IAddInMetadataInstall_InstallAddIn_InputMessage">
  <wsdl:part name="parameters" element="tns:InstallAddIn" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/InstallAddIn
```

The body of the SOAP message MUST contain the **InstallAddIn** element.

#### 3.7.5.8.2 Elements

##### 3.7.5.8.2.1 InstallAddIn

This element specifies input values for the **InstallAddIn** operation.

```
<xs:element name="InstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="addin" nillable="true"
  xmlns:q1="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
  type="q1:Package" />
      <xs:element minOccurs="0" name="installOnClients" nillable="true"
  xmlns:q2="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
  type="q2:ClientInstallFilter" />
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**addin:** A **Package** (section [2.2.4.7.3](#)) complex type that contains details for the AddIn to be installed.

**installOnClients:** A **ClientInstallFilter** (section [2.2.4.7.2](#)) complex type that contains the client installation filter details.

### 3.7.5.9 IAddInMetadataInstall.DownloadInstallAddIn

This operation downloads and installs the given add-in.

```
<wsdl:operation name="DownloadInstallAddIn">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/DownloadInstallAddIn"
  message="tns:IAddInMetadataInstall_DownloadInstallAddIn_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadataInstall\_DownloadInstallAddIn\_InputMessage** request message, the protocol server is notified that the connection is terminating. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.9.1 Messages

##### 3.7.5.9.1.1 IAddInMetadataInstall\_DownloadInstallAddIn\_InputMessage

This is the request for the **DownloadInstallAddIn** operation.

```
<wsdl:message name="IAddInMetadataInstall_DownloadInstallAddIn_InputMessage">
  <wsdl:part name="parameters" element="tns:DownloadInstallAddIn" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/DownloadInstallAddIn
```

The body of the SOAP message MUST contain the **DownloadInstallAddIn** element.

#### 3.7.5.9.2 Elements

##### 3.7.5.9.2.1 DownloadInstallAddIn

This element specifies input values for the **DownloadInstallAddIn** operation.

```
<xs:element name="DownloadInstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="address" nillable="true" type="xs:anyURI" />
      <xs:element minOccurs="0" name="certThumbprint" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="expectedPackageId"
  xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/" type="q3:guid" />
      <xs:element minOccurs="0" name="installOnClients" nillable="true"
  xmlns:q4="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
  type="q4:ClientInstallFilter" />
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**address:** A URI that represents the address of the addin package.

**certThumbprint:** A string that contains the thumbprint of the certificate that the package is signed with.

**expectedPackageId:** A GUID that represents the ID of the expected package.

**installOnClients:** A **ClientInstallFilter** (section [2.2.4.7.2](#)) complex type that contains the client installation filter details.

### 3.7.5.10 IAddInMetadataInstall.UninstallAddIn

This operation uninstalls the given add-in. This operation has no effect if there is no add-in that matches the supplied ID.

```
<wsdl:operation name="UninstallAddIn">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/UninstallAddIn"
    message="tns:IAddInMetadataInstall_UninstallAddIn_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadataInstall\_UninstallAddIn\_InputMessage** request message, the protocol server is notified that the connection is terminating. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.10.1 Messages

##### 3.7.5.10.1.1 IAddInMetadataInstall\_UninstallAddIn\_InputMessage

This is the request for the **UninstallAddIn** operation.

```
<wsdl:message name="IAddInMetadataInstall_UninstallAddIn_InputMessage">
  <wsdl:part name="parameters" element="tns:UninstallAddIn" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/UninstallAddIn
```

The body of the SOAP message MUST contain the **UninstallAddIn** element.

#### 3.7.5.10.2 Elements

##### 3.7.5.10.2.1 UninstallAddIn

This element specifies input values for the **UninstallAddIn** operation.

```
<xs:element name="UninstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id"
        xmlns:q5="http://schemas.microsoft.com/2003/10/Serialization/" type="q5:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**id:** A GUID that represents the AddIn ID.

### 3.7.5.11 IAddInMetadataInstall.CancelOperation

This operation cancels the current operation.

```
<wsdl:operation name="CancelOperation">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/CancelOperation"
    message="tns:IAddInMetadataInstall_CancelOperation_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAddInMetadataInstall\_CancelOperation\_InputMessage** request message, the protocol server is notified that the connection is terminating. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.11.1 Messages

##### 3.7.5.11.1.1 IAddInMetadataInstall\_CancelOperation\_InputMessage

This is the request for the **CancelOperation** operation.

```
<wsdl:message name="IAddInMetadataInstall_CancelOperation_InputMessage">
  <wsdl:part name="parameters" element="tns:CancelOperation" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/CancelOperation
```

The body of the SOAP message MUST contain the **CancelOperation** element.

#### 3.7.5.11.2 Elements

##### 3.7.5.11.2.1 CancelOperation

This element specifies input values for the **CancelOperation** operation. This element has no parameters.

```
<xs:element name="CancelOperation">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.12 IAddInMetadataInstall.StartUploadAddinFile

This operation starts the upload of the add-in with the given ID value.

```
<wsdl:operation name="StartUploadAddinFile">
```

```

    <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFile"
    message="tns:IAddInMetadataInstall_StartUploadAddinFile_InputMessage" />
    <wsdl:output
    wsam:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFileResponse"
    message="tns:IAddInMetadataInstall_StartUploadAddinFile_OutputMessage" />
    <wsdl:fault
    wsam:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFileAddInErrorFault"
    name="AddInErrorFault"
    message="tns:IAddInMetadataInstall_StartUploadAddinFile_AddInErrorFault_FaultMessage" />
  </wsdl:operation>

```

Upon receiving the **IAddInMetadataInstall\_StartUploadAddinFile\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadataInstall\_StartUploadAddinFile\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.7.5.12.1 Messages

#### 3.7.5.12.1.1 IAddInMetadataInstall\_StartUploadAddinFile\_InputMessage

This is the request for the **StartUploadAddinFile** operation.

```

<wsdl:message name="IAddInMetadataInstall_StartUploadAddinFile_InputMessage">
  <wsdl:part name="parameters" element="tns:StartUploadAddinFile" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFile
```

The body of the SOAP message MUST contain the **StartUploadAddinFile** element.

#### 3.7.5.12.1.2 IAddInMetadataInstall\_StartUploadAddinFile\_OutputMessage

This is the response for the **StartUploadAddinFile** operation.

```

<wsdl:message name="IAddInMetadataInstall_StartUploadAddinFile_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartUploadAddinFileResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFileResponse
```

The body of the SOAP message MUST contain the **StartUploadAddinFileResponse** element.

### 3.7.5.12.2 Elements

#### 3.7.5.12.2.1 StartUploadAddinFile

This element specifies input values for the **StartUploadAddinFile** operation.

```

<xs:element name="StartUploadAddinFile">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="addinId"
xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/" type="q6:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**addinId:** A GUID that represents the AddIn ID.

### 3.7.5.12.2 StartUploadAddinFileResponse

This element specifies output values for the **StartUploadAddinFile** operation.

```

<xs:element name="StartUploadAddinFileResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="StartUploadAddinFileResult"
xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/" type="q7:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**StartUploadAddinFileResult:** A GUID that represents the upload session ID.

### 3.7.5.13 IAddInMetadataInstall.UploadAddinFile

This operation uploads a chunk of an add-in file.

```

<wsdl:operation name="UploadAddinFile">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFile"
message="tns:IAddInMetadataInstall_UploadAddinFile_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFileResponse"
message="tns:IAddInMetadataInstall_UploadAddinFile_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFileAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_UploadAddinFile_AddInErrorFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IAddInMetadataInstall\_UploadAddinFile\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server **MUST** respond with **IAddInMetadataInstall\_UploadAddinFile\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.7.5.13.1 Messages

##### 3.7.5.13.1.1 IAddInMetadataInstall\_UploadAddinFile\_InputMessage

This is the request for the **UploadAddinFile** operation.

```

<wsdl:message name="IAddInMetadataInstall_UploadAddinFile_InputMessage">
  <wsdl:part name="parameters" element="tns:UploadAddinFile" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/UploadAddinFile
```

The body of the SOAP message MUST contain the **UploadAddinFile** element.

### 3.7.5.13.1.2 IAddInMetadataInstall\_UploadAddinFile\_OutputMessage

This is the response for the **UploadAddinFile** operation.

```
<wsdl:message name="IAddInMetadataInstall_UploadAddinFile_OutputMessage">
  <wsdl:part name="parameters" element="tns:UploadAddinFileResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/UploadAddinFileResponse
```

The body of the SOAP message MUST contain the **UploadAddinFileResponse** element.

### 3.7.5.13.2 Elements

#### 3.7.5.13.2.1 UploadAddinFile

This element specifies input values for the **UploadAddinFile** operation.

```
<xs:element name="UploadAddinFile">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="sessionId"
        xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/" type="q8:guid" />
      <xs:element minOccurs="0" name="data" nillable="true" type="xs:base64Binary" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**sessionId:** A GUID that represents the session ID.

**data:** A BASE64 binary that contains the AddIn data to be uploaded.

#### 3.7.5.13.2.2 UploadAddinFileResponse

This element specifies output values for the **UploadAddinFile** operation. This element has no parameters.

```
<xs:element name="UploadAddinFileResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.14 IAddInMetadataInstall.EndUploadAddinFile

This operation ends the upload of an add-in file.

```

<wsdl:operation name="EndUploadAddinFile">
  <wsdl:input wsam:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFile"
  message="tns:IAddInMetadataInstall_EndUploadAddinFile_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFileResponse"
  message="tns:IAddInMetadataInstall_EndUploadAddinFile_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFileAddInErrorFault"
  name="AddInErrorFault"
  message="tns:IAddInMetadataInstall_EndUploadAddinFile_AddInErrorFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IAddInMetadataInstall\_EndUploadAddinFile\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **IAddInMetadataInstall\_EndUploadAddinFile\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.7.5.14.1 Messages

#### 3.7.5.14.1.1 IAddInMetadataInstall\_EndUploadAddinFile\_InputMessage

This is the request for the **EndUploadAddinFile** operation.

```

<wsdl:message name="IAddInMetadataInstall_EndUploadAddinFile_InputMessage">
  <wsdl:part name="parameters" element="tns:EndUploadAddinFile" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFile
```

The body of the SOAP message MUST contain the **EndUploadAddinFile** element.

#### 3.7.5.14.1.2 IAddInMetadataInstall\_EndUploadAddinFile\_OutputMessage

This is the response for the **EndUploadAddinFile** operation.

```

<wsdl:message name="IAddInMetadataInstall_EndUploadAddinFile_OutputMessage">
  <wsdl:part name="parameters" element="tns:EndUploadAddinFileResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFileResponse
```

The body of the SOAP message MUST contain the **EndUploadAddinFileResponse** element.

### 3.7.5.14.2 Elements

#### 3.7.5.14.2.1 EndUploadAddinFile

This element specifies input values for the **EndUploadAddinFile** operation.



```

<xs:element name="EndUploadAddinFile">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="sessionId"
xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/" type="q9:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**sessionId:** A GUID that represents the session ID.

### 3.7.5.14.2.2 EndUploadAddinFileResponse

This element specifies output values for the **EndUploadAddinFile** operation. This element has no parameters.

```

<xs:element name="EndUploadAddinFileResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.7.5.15 IAddInMetadataInstall.ProgressChanged

This callback operation is triggered when the progress for the given operation has changed, or the operation has completed.

```

<wsdl:operation name="ProgressChanged">
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadataInstall/ProgressChanged"
message="tns:IAddInMetadataInstall ProgressChanged OutputCallbackMessage" />
</wsdl:operation>

```

#### 3.7.5.15.1 Messages

##### 3.7.5.15.1.1 IAddInMetadataInstall\_ProgressChanged\_OutputCallbackMessage

This is the request for the **ProgressChanged** operation.

```

<wsdl:message name="IAddInMetadataInstall_ProgressChanged_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ProgressChanged" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IAddInMetadataInstall/ProgressChanged

```

The body of the SOAP message MUST contain the **ProgressChanged** element.

#### 3.7.5.15.2 Elements

##### 3.7.5.15.2.1 ProgressChanged

This element specifies input values for the **ProgressChanged** operation.

```

<xs:element name="ProgressChanged">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="p" type="xs:int" />
      <xs:element minOccurs="0" name="completed" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**p:** An integer representing the installation progress of the AddIn, from 0 to 100 percent.

**completed:** A Boolean where TRUE indicates that the installation was completed; otherwise, the value is FALSE.

### 3.7.5.16 IAddInMetadataInstall.ErrorOccured

This callback operation is triggered when an error has occurred during the operation.

```

<wsdl:operation name="ErrorOccured">
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadataInstall/ErrorOccured"
  message="tns:IAddInMetadataInstall ErrorOccured OutputCallbackMessage" />
</wsdl:operation>

```

#### 3.7.5.16.1 Messages

##### 3.7.5.16.1.1 IAddInMetadataInstall\_ErrorOccured\_OutputCallbackMessage

This is the request for the **ErrorOccured** operation.

```

<wsdl:message name="IAddInMetadataInstall ErrorOccured OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ErrorOccured" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/ErrorOccured
```

The body of the SOAP message **MUST** contain the **ErrorOccured** element.

#### 3.7.5.16.2 Elements

##### 3.7.5.16.2.1 ErrorOccured

This element specifies input values for the **ErrorOccured** operation.

```

<xs:element name="ErrorOccured">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="messageId"
  xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInfr
  astructure" type="q10:AddInError" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**messageId:** An **AddInError** (section [2.2.5.7.3](#)) string that contains the ID of the error message.

### 3.7.5.17 IAddInMetadataInstall.RebootRequired

This callback operation is triggered if the operation required a reboot.

```
<wsdl:operation name="RebootRequired">
  <wsdl:output wsam:Action="http://tempuri.org/IAddInMetadataInstall/RebootRequired"
    message="tns:IAddInMetadataInstall_RebootRequired_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.7.5.17.1 Messages

##### 3.7.5.17.1.1 IAddInMetadataInstall\_RebootRequired\_OutputCallbackMessage

This is the request for the **RebootRequired** operation.

```
<wsdl:message name="IAddInMetadataInstall_RebootRequired_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RebootRequired" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/RebootRequired
```

The body of the SOAP message **MUST** contain the **RebootRequired** element.

#### 3.7.5.17.2 Elements

##### 3.7.5.17.2.1 RebootRequired

This element specifies input values for the **RebootRequired** operation. This element has no parameters.

```
<xs:element name="RebootRequired">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.5.18 IAddInMetadataInstall.RestartDashboardRequired

This callback operation is triggered if the operation required a restart of the dashboard.

```
<wsdl:operation name="RestartDashboardRequired">
  <wsdl:output
    wsam:Action="http://tempuri.org/IAddInMetadataInstall/RestartDashboardRequired"
    message="tns:IAddInMetadataInstall_RestartDashboardRequired_OutputCallbackMessage" />
</wsdl:operation>
```

#### 3.7.5.18.1 Messages

### 3.7.5.18.1.1 IAddInMetadataInstall\_RestartDashboardRequired\_OutputCallbackMessage

This is the request for the **RestartDashboardRequired** operation.

```
<wsdl:message name="IAddInMetadataInstall_RestartDashboardRequired_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RestartDashboardRequired" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAddInMetadataInstall/RestartDashboardRequired
```

The body of the SOAP message MUST contain the **RestartDashboardRequired** element.

### 3.7.5.18.2 Elements

#### 3.7.5.18.2.1 RestartDashboardRequired

This element specifies input values for the **RestartDashboardRequired** operation. This element has no parameters.

```
<xs:element name="RestartDashboardRequired">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.7.6 Timer Events

None.

### 3.7.7 Other Local Events

None.

## 3.8 Network Service Contract Details

### 3.8.1 Abstract Data Model

None.

### 3.8.2 Timers

None.

### 3.8.3 Initialization

None.

### 3.8.4 Higher-Layer Triggered Events

None.

### 3.8.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">INetworkingService.UpdateClientAddress</a>	Called by the client to notify the server of the client's current IP address.
<a href="#">INetworkingService.RemoveClient</a>	Called when the client is permanently removed in the dashboard. Requires administrator access and can only be called locally.
<a href="#">INetworkingService.Ping</a>	Used to implement IsServerOnline API.
<a href="#">INetworkingService.GetVPNServerSetting</a>	Used to retrieve VPN server settings.
<a href="#">INetworkingService.GetVirtualNetworkSettings</a>	Used to retrieve Azure Virtual Network settings.

#### 3.8.5.1 INetworkingService.UpdateClientAddress

This operation notifies the server of the client's current IP address.

```
<wsdl:operation name="UpdateClientAddress">
  <wsdl:input wsam:Action="http://tempuri.org/INetworkingService/UpdateClientAddress"
  message="tns:INetworkingService_UpdateClientAddress_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/INetworkingService/UpdateClientAddressResponse"
  message="tns:INetworkingService_UpdateClientAddress_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/INetworkingService/UpdateClientAddressArgumentExceptionFault"
  name="ArgumentExceptionFault"
  message="tns:INetworkingService_UpdateClientAddress_ArgumentExceptionFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **INetworkingService\_UpdateClientAddress\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server **MUST** respond with

**INetworkingService\_UpdateClientAddress\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.8.5.1.1 Messages

##### 3.8.5.1.1.1 INetworkingService\_UpdateClientAddress\_InputMessage

This is the request for the **UpdateClientAddress** operation.

```
<wsdl:message name="INetworkingService_UpdateClientAddress_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateClientAddress" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

`http://tempuri.org/INetworkingService/UpdateClientAddress`

The body of the SOAP message MUST contain the **UpdateClientAddress** element.

### 3.8.5.1.1.2 INetworkingService\_UpdateClientAddress\_OutputMessage

This is the response for the **UpdateClientAddress** operation.

```
<wsdl:message name="IProviderRegistry_UpdateClientAddress_OutputMessage">
  <wsdl:part name="parameters" element="tns:UpdateClientAddressResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

`http://tempuri.org/IProviderRegistry/UpdateClientAddressResponse`

The body of the SOAP message MUST contain the **UpdateClientAddressResponse** element.

### 3.8.5.1.2 Elements

#### 3.8.5.1.2.1 UpdateClientAddress

This element specifies input values for the **UpdateClientAddress** operation.

```
<xs:element name="UpdateClientAddress">
  <xs:complexType>
    <xs:element minOccurs="0" name="client" nillable="true" type="xs:string" />
  </xs:complexType>
</xs:element>
```

**client:** A string that contains the address of the specified client.

#### 3.8.5.1.2.2 UpdateClientAddressResponse

This element specifies output values for the **UpdateClientAddress** operation. This element has no parameters.

```
<xs:element name="UpdateClientAddressResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.8.5.2 INetworkingService.RemoveClient

This operation permanently removes a client from the dashboard. This operation requires administrator access and can only be called locally.

```
<wsdl:operation name="RemoveClient">
  <wsdl:input wsam:Action="http://tempuri.org/INetworkingService/RemoveClient"
  message="tns:INetworkingService_RemoveClient_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/INetworkingService/RemoveClientResponse"
  message="tns:INetworkingService_RemoveClient_OutputMessage" />
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://tempuri.org/INetworkingService/RemoveClientArgumentExceptionFault"
name="ArgumentExceptionFault"
message="tns:INetworkingService_RemoveClient_ArgumentExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **INetworkingService\_RemoveClient\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **INetworkingService\_RemoveClient\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.8.5.2.1 Messages

#### 3.8.5.2.1.1 INetworkingService\_RemoveClient\_InputMessage

This is the request for the **RemoveClient** operation.

```

<wsdl:message name="INetworkingService_RemoveClient_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveClient" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/INetworkingService/RemoveClient
```

The body of the SOAP message MUST contain the **RemoveClient** element.

#### 3.8.5.2.1.2 INetworkingService\_RemoveClient\_OutputMessage

This is the response for the **RemoveClient** operation.

```

<wsdl:message name="IProviderRegistry_RemoveClient_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveClientResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/RemoveClientResponse
```

The body of the SOAP message MUST contain the **RemoveClientResponse** element.

### 3.8.5.2.2 Elements

#### 3.8.5.2.2.1 RemoveClient

This element specifies input values for the **RemoveClient** operation.

```

<xs:element name="RemoveClient">
  <xs:complexType>
    <xs:element minOccurs="0" name="client" nillable="true" type="xs:string" />
  </xs:complexType>
</xs:element>

```

**client:** A string that contains the address of the specified client.

### 3.8.5.2.2 RemoveClientResponse

This element specifies output values for the **RemoveClient** operation. This element has no parameters.

```
<xs:element name="RemoveClientResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.8.5.3 INetworkingService.Ping

This operation is used to implement the **IsServerOnline** API.

```
<wsdl:operation name="Ping">
  <wsdl:input wsam:Action="http://tempuri.org/INetworkingService/Ping"
  message="tns:INetworkingService_Ping_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/INetworkingService/PingResponse"
  message="tns:INetworkingService_Ping_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **INetworkingService\_Ping\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server **MUST** respond with **INetworkingService\_Ping\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.8.5.3.1 Messages

##### 3.8.5.3.1.1 INetworkingService\_Ping\_InputMessage

This is the request for the **Ping** operation.

```
<wsdl:message name="INetworkingService_Ping_InputMessage">
  <wsdl:part name="parameters" element="tns:Ping" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/INetworkingService/Ping
```

The body of the SOAP message **MUST** contain the **Ping** element.

##### 3.8.5.3.1.2 INetworkingService\_Ping\_OutputMessage

This is the response for the **Ping** operation.

```
<wsdl:message name="IProviderRegistry_Ping_OutputMessage">
  <wsdl:part name="parameters" element="tns:PingResponse" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.



<http://tempuri.org/IProviderRegistry/PingResponse>

The body of the SOAP message MUST contain the **PingResponse** element.

### 3.8.5.3.2 Elements

#### 3.8.5.3.2.1 Ping

This element specifies input values for the **Ping** operation. This element has no parameters.

```
<xs:element name="Ping">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.8.5.3.2.2 PingResponse

This element specifies output values for the **Ping** operation. This element has no parameters.

```
<xs:element name="PingResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.8.5.4 INetworkingService.GetVPNServerSetting

This operation returns the server's VPN settings.

```
<wsdl:operation name="GetVPNServerSetting">
  <wsdl:input wsam:Action="http://tempuri.org/INetworkingService/GetVPNServerSetting"
message="tns:INetworkingService_GetVPNServerSetting_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/INetworkingService/GetVPNServerSettingResponse"
message="tns:INetworkingService_GetVPNServerSetting_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **INetworkingService\_GetVPNServerSetting\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with

**INetworkingService\_GetVPNServerSetting\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.8.5.4.1 Messages

##### 3.8.5.4.1.1 INetworkingService\_GetVPNServerSetting\_InputMessage

This is the request for the **GetVPNServerSetting** operation.

```
<wsdl:message name="INetworkingService_GetVPNServerSetting_InputMessage">
  <wsdl:part name="parameters" element="tns:GetVPNServerSetting" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/INetworkingService/GetVPNServerSetting
```

The body of the SOAP message MUST contain the **GetVPNServerSetting** element.

### 3.8.5.4.1.2 INetworkingService\_GetVPNServerSetting\_OutputMessage

This is the response for the **GetVPNServerSetting** operation.

```
<wsdl:message name="IProviderRegistry_GetVPNServerSetting_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetVPNServerSettingResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/GetVPNServerSettingResponse
```

The body of the SOAP message MUST contain the **GetVPNServerSettingResponse** element.

### 3.8.5.4.2 Elements

#### 3.8.5.4.2.1 GetVPNServerSetting

This element specifies input values for the **GetVPNServerSetting** operation. This element has no parameters.

```
<xs:element name="GetVPNServerSetting">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.8.5.4.2.2 GetVPNServerSettingResponse

This element specifies output values for the **GetVPNServerSetting** operation.

```
<xs:element name="GetVPNServerSettingResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVPNServerSettingResult" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess" type="q1:VPNSetting" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetVPNServerSettingResult:** A **VPNSetting** (section [2.2.4.8.1](#)) complex type that contains the requested VPN server settings details.

### 3.8.5.5 INetworkService.GetVirtualNetworkSettings

This operation returns the server's Azure Virtual Network settings (section [2.2.4.8.2](#)).

```

<wsdl:operation name="GetVirtualNetworkSettings">
  <wsdl:input wsam:Action="http://tempuri.org/INetworkingService/GetVirtualNetworkSettings"
  message="tns:INetworkingService_GetVirtualNetworkSettings_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/INetworkingService/GetVirtualNetworkSettings"
  message="tns:INetworkingService_GetVirtualNetworkSettings_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **INetworkingService\_GetVirtualNetworkSettings\_InputMessage** request message, the protocol server is notified that the connection is terminating. Upon successful completion of the action, the server MUST respond with **INetworkingService\_GetVirtualNetworkSettings\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.8.5.5.1 Messages

#### 3.8.5.5.1.1 INetworkService\_GetVirtualNetworkSettings\_InputMessage

This is the request for the **GetVirtualNetworkSettings** operation.

```

<wsdl:message name="INetworkingService_GetVirtualNetworkSettings_InputMessage">
  <wsdl:part name="parameters" element="tns:GetVirtualNetworkSettings" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/INetworkingService/GetVirtualNetworkSettings
```

The body of the SOAP message MUST contain the **GetVirtualNetworkSettings** element.

#### 3.8.5.5.1.2 INetworkService\_GetVirtualNetworkSettings\_OutputMessage

This is the response for the **GetVirtualNetworkSettings** operation.

```

<wsdl:message name="IProviderRegistry_GetVirtualNetworkSettings_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetVirtualNetworkSettingsResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/GetVirtualNetworkSettingsResponse
```

The body of the SOAP message MUST contain the **GetVirtualNetworkSettingsResponse** element.

### 3.8.5.5.2 Elements

#### 3.8.5.5.2.1 GetVirtualNetworkSettings

This element specifies input values for the **GetVirtualNetworkSettings** operation. This element has no parameters.

```

<xs:element name="GetVirtualNetworkSettings">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

```
</xs:complexType>
</xs:element>
```

### 3.8.5.5.2.2 GetVirtualNetworkSettingsResponse

This element specifies output values for the **GetVirtualNetworkSettings** operation.

```
<xs:element name="GetVirtualNetworkSettingsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name=" GetVirtualNetworkSettingsResult" nillable="true"
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce
        ss" type="q1:VirtualNetworkSettings" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetVirtualNetworkSettingsResult:** A **VirtualNetworkSettings** (section [2.2.4.8.2](#)) complex type that contains the requested virtual network settings details.

### 3.8.6 Timer Events

None.

### 3.8.7 Other Local Events

None.

## 3.9 Domain Infrastructure Service Contract Details

### 3.9.1 Abstract Data Model

None.

### 3.9.2 Timers

None.

### 3.9.3 Initialization

None.

### 3.9.4 Higher-Layer Triggered Events

None.

### 3.9.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IDomainMaintenanceManager.SetCredentials</a>	Set and validate user credentials for current domain configuration. This API is intended for repair scenarios when credentials provided previously become stale (for example, a password)

OperationContract	Description
	has changed) and need to be updated before domain maintenance can continue successfully.
<a href="#">IDomainMaintenanceManager.ValidateCredentials</a>	Validate the current user credentials.
<a href="#">IDomainMaintenanceManager.UpdateDnsRecords</a>	Update DNS records for the domain.
<a href="#">IDomainMaintenanceManager.QueryAddressFromDNS</a>	Determine the public IP address (IPv4 or IPv6) corresponding to the currently configured domain name using public DNS infrastructure.
<a href="#">IDomainMaintenanceManager.QueryAddressFromProvider</a>	Query the active maintenance provider for the server's public IP address.
<a href="#">IDomainMaintenanceManager.TestConnection</a>	Verify whether the connection to the current provider's backend service can be established. This method is used for diagnostics only, as no guarantees of network/service conditions can be made immediately after this method returns.
<a href="#">IDomainMaintenanceManager.GetDomainState</a>	Query the active maintenance provider for current domain state.
<a href="#">IDomainMaintenanceManager.GetCertificateState</a>	Query the active maintenance provider for current certificate state.
<a href="#">IDomainMaintenanceManager.GetDomainNameConfiguration</a>	Return the currently active domain name configuration.
<a href="#">IDomainMaintenanceManager.GetDynamicDNSInfo</a>	Return data about dynamic DNS updates (the time of the most recent successful update, for example).
<a href="#">IDomainMaintenanceManager.GetSettings</a>	Return current domain manager settings.

### 3.9.5.1 IDomainMaintenanceManager.SetCredentials

This operation sets and validates user credentials for the current domain configuration.

```
<wsdl:operation name="SetCredentials">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentials"
  message="tns:IDomainMaintenanceManager_SetCredentials_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentialsResponse"
  message="tns:IDomainMaintenanceManager_SetCredentials_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentialsDomainManagerFaultFault"
  name="DomainManagerFaultFault"
  message="tns:IDomainMaintenanceManager_SetCredentials_DomainManagerFaultFault_FaultMessage"
  />
</wsdl:operation>
```

Upon receiving the **IDomainMaintenanceManager\_SetCredentials\_InputMessage** request message, the protocol server sets and validates user credentials. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_SetCredentials\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.1.1 Messages

#### 3.9.5.1.1.1 IDomainMaintenanceManager\_SetCredentials\_InputMessage

This is the request for the **SetCredentials** operation.

```
<wsdl:message name="IDomainMaintenanceManager_SetCredentials_InputMessage">  
  <wsdl:part name="parameters" element="tns:SetCredentials" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/SetCredentials
```

The body of the SOAP message MUST contain the **SetCredentials** element.

#### 3.9.5.1.1.2 IDomainMaintenanceManager\_SetCredentials\_OutputMessage

This is the response for the **SetCredentials** operation.

```
<wsdl:message name="IDomainMaintenanceManager_SetCredentials_OutputMessage">  
  <wsdl:part name="parameters" element="tns:SetCredentialsResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/SetCredentialsResponse
```

The body of the SOAP message MUST contain the **SetCredentialsResponse** element.

### 3.9.5.1.2 Elements

#### 3.9.5.1.2.1 SetCredentials

This element specifies input values for the **SetCredentials** operation.

```
<xs:element name="SetCredentialsResponse">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="SetCredentialsResult" type="xs:boolean" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**SetCredentialsResult:** A Boolean where TRUE indicates that the credentials were set successfully; otherwise, the value is FALSE.

#### 3.9.5.1.2.2 SetCredentialsResponse

This element specifies output values for the **SetCredentials** operation.

```
<xs:element name="SetCredentialsResponse">  
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="SetCredentialsResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**SetCredentialsResult:** A Boolean where TRUE indicates that the credentials were set successfully; otherwise, the value is FALSE.

### 3.9.5.2 IDomainMaintenanceManager.ValidateCredentials

This operation validates the current user credentials.

```

<wsdl:operation name="ValidateCredentials">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentials"
message="tns:IDomainMaintenanceManager ValidateCredentials InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentialsResponse"
message="tns:IDomainMaintenanceManager_ValidateCredentials_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentialsDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager ValidateCredentials DomainManagerFaultFault FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IDomainMaintenanceManager\_ValidateCredentials\_InputMessage** request message, the protocol server validates user credentials. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_ValidateCredentials\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.9.5.2.1 Messages

##### 3.9.5.2.1.1 IDomainMaintenanceManager\_ValidateCredentials\_InputMessage

This is the request for the **ValidateCredentials** operation.

```

<wsdl:message name="IDomainMaintenanceManager_ValidateCredentials_InputMessage">
  <wsdl:part name="parameters" element="tns:ValidateCredentials" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```

http://tempuri.org/IDomainMaintenanceManager/ValidateCredentials

```

The body of the SOAP message MUST contain the **ValidateCredentials** element.

##### 3.9.5.2.1.2 IDomainMaintenanceManager\_ValidateCredentials\_OutputMessage

This is the response for the **ValidateCredentials** operation.

```

<wsdl:message name="IDomainMaintenanceManager_ValidateCredentials_OutputMessage">
  <wsdl:part name="parameters" element="tns:ValidateCredentialsResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/ValidateCredentialsResponse
```

The body of the SOAP message MUST contain the **ValidateCredentialsResponse** element.

### 3.9.5.2.2 Elements

#### 3.9.5.2.2.1 ValidateCredentials

This element specifies input values for the **ValidateCredentials** operation. This element has no parameters.

```
<xs:element name="ValidateCredentials">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.9.5.2.2.2 ValidateCredentialsResponse

This element specifies output values for the **ValidateCredentials** operation.

```
<xs:element name="ValidateCredentialsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ValidateCredentialsResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ValidateCredentialsResult:** A Boolean where TRUE indicates that the credentials were validated successfully; otherwise, the value is FALSE.

### 3.9.5.3 IDomainMaintenanceManager.UpdateDnsRecords

This operation updates the DNS records for the domain.

```
<wsdl:operation name="UpdateDnsRecords">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecords"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsResponse"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsDomainManagerFaultF
ault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_DomainManagerFaultFault_FaultMessage"
/>
  <wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsArgumentExceptionFa
ult" name="ArgumentExceptionFault"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_ArgumentExceptionFault_FaultMessage"
/>
</wsdl:operation>
```



Upon receiving the **IDomainMaintenanceManager\_UpdateDnsRecords\_InputMessage** request message, the protocol server updates DNS records for the domain. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_UpdateDnsRecords\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.3.1 Messages

#### 3.9.5.3.1.1 IDomainMaintenanceManager\_UpdateDnsRecords\_InputMessage

This is the request for the **UpdateDnsRecords** operation.

```
<wsdl:message name="IDomainMaintenanceManager_UpdateDnsRecords_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateDnsRecords" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecords
```

The body of the SOAP message MUST contain the **UpdateDnsRecords** element.

#### 3.9.5.3.1.2 IDomainMaintenanceManager\_UpdateDnsRecords\_OutputMessage

This is the response for the **UpdateDnsRecords** operation.

```
<wsdl:message name="IDomainMaintenanceManager_UpdateDnsRecords_OutputMessage">
  <wsdl:part name="parameters" element="tns:UpdateDnsRecordsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsResponse
```

The body of the SOAP message MUST contain the **UpdateDnsRecordsResponse** element.

### 3.9.5.3.2 Elements

#### 3.9.5.3.2.1 UpdateDnsRecords

This element specifies input values for the **UpdateDnsRecords** operation.

```
<xs:element name="UpdateDnsRecords">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="records" nillable="true"
        xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce
        ss.Domains" type="q2:ArrayOfDnsRecord" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**records:** A list of **DnsRecord** (section [2.2.4.9.3](#)) objects representing the DNS records to be updated.

### 3.9.5.3.2.2 UpdateDnsRecordsResponse

This element specifies output values for the **UpdateDnsRecords** operation.

```
<xs:element name="UpdateDnsRecordsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="UpdateDnsRecordsResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**UpdateDnsRecordsResult:** A Boolean where TRUE indicates that the DNS records were updated successfully; otherwise, this value is FALSE.

### 3.9.5.4 IDomainMaintenanceManager.QueryAddressFromDNS

This operation returns the public IPv4 or IPv6 address corresponding to the currently configured domain name, using the public DNS infrastructure.

```
<wsdl:operation name="QueryAddressFromDNS">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNS"
  message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNSResponse"
  message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNSDomainManagerFaultFault"
  name="DomainManagerFaultFault"
  message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_DomainManagerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IDomainMaintenanceManager\_QueryAddressFromDNS\_InputMessage** request message, the protocol server determines the public IP address (IPv4 or IPv6) corresponding to the currently configured domain name using the public DNS infrastructure. Upon successful completion of the action, the server **MUST** respond with **IDomainMaintenanceManager\_QueryAddressFromDNS\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.9.5.4.1 Messages

##### 3.9.5.4.1.1 IDomainMaintenanceManager\_QueryAddressFromDNS\_InputMessage

This is the request for the **QueryAddressFromDNS** operation.

```
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromDNS_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAddressFromDNS" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNS
```

The body of the SOAP message **MUST** contain the **QueryAddressFromDNS** element.

### 3.9.5.4.1.2 IDomainMaintenanceManager\_QueryAddressFromDNS\_OutputMessage

This is the response for the **QueryAddressFromDNS** operation.

```
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromDNS_OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryAddressFromDNSResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNSResponse
```

The body of the SOAP message MUST contain the **QueryAddressFromDNSResponse** element.

### 3.9.5.4.2 Elements

#### 3.9.5.4.2.1 QueryAddressFromDNS

This element specifies input values for the **QueryAddressFromDNS** operation. This element has no parameters.

```
<xs:element name="QueryAddressFromDNS">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.9.5.4.2.2 QueryAddressFromDNSResponse

This element specifies output values for the **QueryAddressFromDNS** operation.

```
<xs:element name="QueryAddressFromDNSResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="QueryAddressFromDNSResult" nillable="true"
        xmlns:q3="http://schemas.datacontract.org/2004/07/System.Net" type="q3:IPAddress" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**QueryAddressFromDNSResult:** A value of type **IPAddress** (section [2.2.4.8.4](#)) that contains the requested address from the DNS.

### 3.9.5.5 IDomainMaintenanceManager.QueryAddressFromProvider

This operation returns the server's public IPv4 or IPv6 address by using the active maintenance provider.

```
<wsdl:operation name="QueryAddressFromProvider">
  <wsdl:input>
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProvider"
    message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_InputMessage" />
  <wsdl:output>
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderResponse"
    message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_OutputMessage" />
</wsdl:operation>
```

```
<wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderDomainManag
erFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_DomainManagerFaultFault_Fault
Message" />
</wsdl:operation>
```

Upon receiving the **IDomainMaintenanceManager\_QueryAddressFromProvider\_InputMessage** request message, the protocol server queries the active maintenance provider for the server's public IP address. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_QueryAddressFromProvider\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.5.1 Messages

#### 3.9.5.5.1.1 IDomainMaintenanceManager\_QueryAddressFromProvider\_InputMessage

This is the request for the **QueryAddressFromProvider** operation.

```
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromProvider_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAddressFromProvider" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProvider
```

The body of the SOAP message MUST contain the **QueryAddressFromProvider** element.

#### 3.9.5.5.1.2 IDomainMaintenanceManager\_QueryAddressFromProvider\_OutputMessage

This is the response for the **QueryAddressFromProvider** operation.

```
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromProvider_OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryAddressFromProviderResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderResponse
```

The body of the SOAP message MUST contain the **QueryAddressFromProviderResponse** element.

### 3.9.5.5.2 Elements

#### 3.9.5.5.2.1 QueryAddressFromProvider

This element specifies input values for the **QueryAddressFromProvider** operation. This element has no parameters.

```

<xs:element name="QueryAddressFromProvider">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.9.5.5.2 QueryAddressFromProviderResponse

This element specifies output values for the **QueryAddressFromProvider** operation.

```

<xs:element name="QueryAddressFromProviderResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="QueryAddressFromProviderResult" nillable="true"
        xmlns:q4="http://schemas.datacontract.org/2004/07/System.Net" type="q4:IPAddress" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**QueryAddressFromProviderResult:** A value of type **IPAddress** (section [2.2.4.8.4](#)) that contains the requested IP address from the specified provider.

### 3.9.5.6 IDomainMaintenanceManager.TestConnection

This operation returns a value indicating whether a connection to the current provider's backend service can be established.

```

<wsdl:operation name="TestConnection">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnection"
    message="tns:IDomainMaintenanceManager_TestConnection_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnectionResponse"
    message="tns:IDomainMaintenanceManager_TestConnection_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnectionDomainManagerFaultFault"
    name="DomainManagerFaultFault"
    message="tns:IDomainMaintenanceManager_TestConnection_DomainManagerFaultFault_FaultMessage"
    />
</wsdl:operation>

```

Upon receiving the **IDomainMaintenanceManager\_TestConnection\_InputMessage** request message, the protocol server verifies whether a connection to the current provider's backend service can be established. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_TestConnection\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.9.5.6.1 Messages

##### 3.9.5.6.1.1 IDomainMaintenanceManager\_TestConnection\_InputMessage

This is the request for the **TestConnection** operation.

```

<wsdl:message name="IDomainMaintenanceManager_TestConnection_InputMessage">
  <wsdl:part name="parameters" element="tns:TestConnection" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/TestConnection
```

The body of the SOAP message MUST contain the **TestConnection** element.

### 3.9.5.6.1.2 IDomainMaintenanceManager\_TestConnection\_OutputMessage

This is the response for the **TestConnection** operation.

```
<wsdl:message name="IDomainMaintenanceManager_TestConnection_OutputMessage">  
  <wsdl:part name="parameters" element="tns:TestConnectionResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/TestConnectionResponse
```

The body of the SOAP message MUST contain the **TestConnectionResponse** element.

### 3.9.5.6.2 Elements

#### 3.9.5.6.2.1 TestConnection

This element specifies input values for the **TestConnection** operation. This element has no parameters.

```
<xs:element name="TestConnection">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

#### 3.9.5.6.2.2 TestConnectionResponse

This element specifies output values for the **TestConnection** operation.

```
<xs:element name="TestConnectionResponse">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="TestConnectionResult" type="xs:boolean" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**TestConnectionResult:** A Boolean where TRUE indicates that the connection is good; otherwise, the value is FALSE.

### 3.9.5.7 IDomainMaintenanceManager.GetDomainState

This operation returns the current domain state from the active maintenance provider.

```
<wsdl:operation name="GetDomainState">  
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainState"  
    message="tns:IDomainMaintenanceManager_GetDomainState_InputMessage" />
```

```

    <wsdl:output
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainStateResponse"
message="tns:IDomainMaintenanceManager_GetDomainState_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainStateDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetDomainState_DomainManagerFaultFault_FaultMessage"
/>
</wsdl:operation>

```

Upon receiving the **IDomainMaintenanceManager\_GetDomainState\_InputMessage** request message, the protocol server queries the active maintenance provider for the current domain state. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_GetDomainState\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.7.1 Messages

#### 3.9.5.7.1.1 IDomainMaintenanceManager\_GetDomainState\_InputMessage

This is the request for the **GetDomainState** operation.

```

<wsdl:message name="IDomainMaintenanceManager_GetDomainState_InputMessage">
  <wsdl:part name="parameters" element="tns:GetDomainState" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetDomainState
```

The body of the SOAP message MUST contain the **GetDomainState** element.

#### 3.9.5.7.1.2 IDomainMaintenanceManager\_GetDomainState\_OutputMessage

This is the response for the **GetDomainState** operation.

```

<wsdl:message name="IDomainMaintenanceManager_GetDomainState_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetDomainStateResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetDomainStateResponse
```

The body of the SOAP message MUST contain the **GetDomainStateResponse** element.

### 3.9.5.7.2 Elements

#### 3.9.5.7.2.1 GetDomainState

This element specifies input values for the **GetDomainState** operation. This element has no parameters.

```

<xs:element name="GetDomainState">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.9.5.7.2.2 GetDomainStateResponse

This element specifies output values for the **GetDomainState** operation.

```

<xs:element name="GetDomainStateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDomainStateResult" nillable="true"
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce
ss.Domains" type="q5:DomainState" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetDomainStateResult:** A **DomainState** (section [2.2.4.9.9](#)) complex type that contains the requested domain state details.

### 3.9.5.8 IDomainMaintenanceManager.GetCertificateState

This operation returns the current certificate state from the active maintenance provider.

```

<wsdl:operation name="GetCertificateState">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateState"
message="tns:IDomainMaintenanceManager_GetCertificateState_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateStateResponse"
message="tns:IDomainMaintenanceManager_GetCertificateState_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateStateDomainManagerFau
ltFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetCertificateState_DomainManagerFaultFault_FaultMessa
ge" />
</wsdl:operation>

```

Upon receiving the **IDomainMaintenanceManager\_GetCertificateState\_InputMessage** request message, the protocol server queries the active maintenance provider for the current certificate state. Upon successful completion of the action, the server **MUST** respond with **IDomainMaintenanceManager\_GetCertificateState\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.9.5.8.1 Messages

##### 3.9.5.8.1.1 IDomainMaintenanceManager\_GetCertificateState\_InputMessage

This is the request for the **GetCertificateState** operation.

```

<wsdl:message name="IDomainMaintenanceManager_GetCertificateState_InputMessage">
  <wsdl:part name="parameters" element="tns:GetCertificateState" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.



```
http://tempuri.org/IDomainMaintenanceManager/GetCertificateState
```

The body of the SOAP message MUST contain the **GetCertificateState** element.

### 3.9.5.8.1.2 IDomainMaintenanceManager\_GetCertificateState\_OutputMessage

This is the response for the **GetCertificateState** operation.

```
<wsdl:message name="IDomainMaintenanceManager_GetCertificateState_OutputMessage">  
  <wsdl:part name="parameters" element="tns:GetCertificateStateResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetCertificateStateResponse
```

The body of the SOAP message MUST contain the **GetCertificateStateResponse** element.

### 3.9.5.8.2 Elements

#### 3.9.5.8.2.1 GetCertificateState

This element specifies input values for the **GetCertificateState** operation. This element has no parameters.

```
<xs:element name="GetCertificateState">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

#### 3.9.5.8.2.2 GetCertificateStateResponse

This element specifies output values for the **GetCertificateState** operation.

```
<xs:element name="GetCertificateStateResponse">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="GetCertificateStateResult" nillable="true"  
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce  
ss.Domains" type="q6:CertificateState" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**GetCertificateStateResult:** A **CertificateState** (section [2.2.4.9.10](#)) complex type that contains the requested certificate state details.

### 3.9.5.9 IDomainMaintenanceManager.GetDomainNameConfiguration

This operation returns the currently active domain name configuration.

```
<wsdl:operation name="GetDomainNameConfiguration">
```

```

    <wsdl:input
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfiguration"
message="tns:IDomainMaintenanceManager_GetDomainNameConfiguration_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfigurationResponse"
message="tns:IDomainMaintenanceManager_GetDomainNameConfiguration_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **IDomainMaintenanceManager\_GetDomainNameConfiguration\_InputMessage** request message, the protocol server returns the currently active domain name configuration. Upon successful completion of the action, the server **MUST** respond with **IDomainMaintenanceManager\_GetDomainNameConfiguration\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.9.1 Messages

#### 3.9.5.9.1.1 IDomainMaintenanceManager\_GetDomainNameConfiguration\_InputMessage

This is the request for the **GetDomainNameConfiguration** operation.

```

<wsdl:message name="IDomainMaintenanceManager_GetDomainNameConfiguration_InputMessage">
  <wsdl:part name="parameters" element="tns:GetDomainNameConfiguration" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfiguration
```

The body of the SOAP message **MUST** contain the **GetDomainNameConfiguration** element.

#### 3.9.5.9.1.2 IDomainMaintenanceManager\_GetDomainNameConfiguration\_OutputMessage

This is the response for the **GetDomainNameConfiguration** operation.

```

<wsdl:message name="IDomainMaintenanceManager_GetDomainNameConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetDomainNameConfigurationResponse" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfigurationResponse
```

The body of the SOAP message **MUST** contain the **GetDomainNameConfigurationResponse** element.

### 3.9.5.9.2 Elements

#### 3.9.5.9.2.1 GetDomainNameConfiguration

This element specifies input values for the **GetDomainNameConfiguration** operation. This element has no parameters.

```
<xs:element name="GetDomainNameConfiguration">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.9.5.9.2.2 GetDomainNameConfigurationResponse

This element specifies output values for the **GetDomainNameConfiguration** operation.

```
<xs:element name="GetDomainNameConfigurationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDomainNameConfigurationResult" nillable="true"
        xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce
        ss.Domains" type="q7:DomainNameConfiguration" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDomainNameConfigurationResult: A DomainNameConfiguration** (section [2.2.4.9.11](#)) complex type that contains the requested domain name configuration details.

### 3.9.5.10 IDomainMaintenanceManager.GetDynamicDNSInfo

This operation returns data about dynamic DNS updates, for example, the time of the most recent successful update.

```
<wsdl:operation name="GetDynamicDNSInfo">
  <wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfo"
    message="tns:IDomainMaintenanceManager_GetDynamicDNSInfo_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfoResponse"
    message="tns:IDomainMaintenanceManager_GetDynamicDNSInfo_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IDomainMaintenanceManager\_GetDynamicDNSInfo\_InputMessage** request message, the protocol server returns data about dynamic DNS updates (the time of the last most recent successful update, for example). Upon successful completion of the action, the server **MUST** respond with **IDomainMaintenanceManager\_GetDynamicDNSInfo\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.9.5.10.1 Messages

##### 3.9.5.10.1.1 IDomainMaintenanceManager\_GetDynamicDNSInfo\_InputMessage

This is the request for the **GetDynamicDNSInfo** operation.

```
<wsdl:message name="IDomainMaintenanceManager_GetDynamicDNSInfo_InputMessage">
  <wsdl:part name="parameters" element="tns:GetDynamicDNSInfo" />
</wsdl:message>
```

This message **MUST** be sent with the following SOAP action.

`http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfo`

The body of the SOAP message MUST contain the **GetDynamicDNSInfo** element.

### 3.9.5.10.1.2 IDomainMaintenanceManager\_GetDynamicDNSInfo\_OutputMessage

This is the response for the **GetDynamicDNSInfo** operation.

```
<wsdl:message name="IDomainMaintenanceManager_GetDynamicDNSInfo_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetDynamicDNSInfoResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

`http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfoResponse`

The body of the SOAP message MUST contain the **GetDynamicDNSInfoResponse** element.

### 3.9.5.10.2 Elements

#### 3.9.5.10.2.1 GetDynamicDNSInfo

This element specifies input values for the **GetDynamicDNSInfo** operation. This element has no parameters.

```
<xs:element name="GetDynamicDNSInfo">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.9.5.10.2.2 GetDynamicDNSInfoResponse

This element specifies output values for the **GetDynamicDNSInfo** operation.

```
<xs:element name="GetDynamicDNSInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDynamicDNSInfoResult" nillable="true"
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAcce
ss.Domains" type="q8:DynamicDNSInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDynamicDNSInfoResult:** A **DynamicDNSInfo** (section [2.2.4.9.13](#)) complex type that contains the requested dynamic DNS information.

### 3.9.5.11 IDomainMaintenanceManager.GetSettings

This operation returns the current domain manager settings.

```
<wsdl:operation name="GetSettings">
```

```
<wsdl:input wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetSettings"
message="tns:IDomainMaintenanceManager_GetSettings_InputMessage" />
<wsdl:output wsam:Action="http://tempuri.org/IDomainMaintenanceManager/GetSettingsResponse"
message="tns:IDomainMaintenanceManager_GetSettings_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IDomainMaintenanceManager\_GetSettings\_InputMessage** request message, the protocol server returns the current domain manager settings. Upon successful completion of the action, the server MUST respond with **IDomainMaintenanceManager\_GetSettings\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.9.5.11.1 Messages

#### 3.9.5.11.1.1 IDomainMaintenanceManager\_GetSettings\_InputMessage

This is the request for the **GetSettings** operation.

```
<wsdl:message name="IDomainMaintenanceManager_GetSettings_InputMessage">
  <wsdl:part name="parameters" element="tns:GetSettings" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetSettings
```

The body of the SOAP message MUST contain the **GetSettings** element.

#### 3.9.5.11.1.2 IDomainMaintenanceManager\_GetSettings\_OutputMessage

This is the response for the **GetSettings** operation.

```
<wsdl:message name="IDomainMaintenanceManager_GetSettings_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetSettingsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IDomainMaintenanceManager/GetSettingsResponse
```

The body of the SOAP message MUST contain the **GetSettingsResponse** element.

### 3.9.5.11.2 Elements

#### 3.9.5.11.2.1 GetSettings

This element specifies input values for the **GetSettings** operation. This element has no parameters.

```
<xs:element name="GetSettings">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.9.5.11.2.2 GetSettingsResponse

This element specifies output values for the **GetSettings** operation.

```
<xs:element name="GetSettingsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSettingsResult" nillable="true"
        xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" type="q9:DomainProviderManagerSettings" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSettingsResult:** A **DomainProviderManagerSettings** (section [2.2.4.9.14](#)) complex type that indicates the result of getting domain provider manager settings.

### 3.9.6 Timer Events

None.

### 3.9.7 Other Local Events

None.

## 3.10 AzureAD and HostedEmail Integration Service Contract Details

### 3.10.1 Abstract Data Model

None.

### 3.10.2 Timers

None.

### 3.10.3 Initialization

None.

### 3.10.4 Higher-Layer Triggered Events

None

### 3.10.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IPasswordSyncClientProvider.Disconnect</a>	Disconnects from the provider service.
<a href="#">IPasswordSyncClientProvider.RaiseOperationInvokeEvent</a>	Raises an operation invoke event.
<a href="#">IO365ClientProvider.GetSharePointAddress&lt;19&gt;</a>	Returns the address of the SharePoint web portal associated with the Microsoft Office 365 subscription.
<a href="#">IO365ClientProvider.IsActivated</a>	Checks whether Office 365 integration is activated.

OperationContract	Description
<a href="#">IPasswordSyncClientProvider.GetPasswordChangeStatus</a>	Gets password change status.
<a href="#">IPasswordSyncClientProvider.MarkPasswordChangeFixed</a>	Marks password change status as fixed.
<a href="#">IO365ClientProvider.GetEmailAddress</a>	Gets the email address for the caller.

### 3.10.5.1 IPasswordSyncClientProvider.Disconnect

This operation disconnects from the provider service.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="true" name="Disconnect">
  <wsdl:input wsam:Action="http://tempuri.org/IPProvider/Disconnect" message="tns:IPasswordSyncClientProvider_Disconnect_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IPasswordSyncClientProvider\_Disconnect\_InputMessage** request message, the protocol server disconnects the caller from the provider service. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.10.5.1.1 Messages

##### 3.10.5.1.1.1 IPasswordSyncClientProvider\_Disconnect\_InputMessage

This is the request for the **Disconnect** operation.

```
<wsdl:message name="IPasswordSyncClientProvider_Disconnect_InputMessage">
  <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPProvider/Disconnect
```

The body of the SOAP message MUST contain the **Disconnect** element.

#### 3.10.5.1.2 Elements

##### 3.10.5.1.2.1 Disconnect

This element specifies input values for the **Disconnect** operation. This element has no parameters.

```
<xs:element name="Disconnect">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

### 3.10.5.2 IPasswordSyncClientProvider.RaiseOperationInvokeEvent

This operation raises an operation invoke event. [<20>](#)

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RaiseOperationInvokeEvent">
  <wsdl:output wsam:Action="http://tempuri.org/IProvider/RaiseOperationInvokeEvent"
message="tns: IPasswordSyncClientProvider_RaiseOperationInvokeEvent_OutputCallbackMessage" />
</wsdl:operation>
```

### 3.10.5.2.1 Messages

#### 3.10.5.2.1.1 IO365ClientProvider\_RaiseOperationInvokeEvent\_OutputCallbackMessage

This is the request for the **RaiseOperationInvoke** operation.

```
<wsdl:message name="IO365ClientProvider_RaiseOperationInvokeEvent_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RaiseOperationInvokeEvent" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/RaiseOperationInvokeEvent
```

The body of the SOAP message MUST contain the **RaiseOperationInvokeEvent** element.

### 3.10.5.2.2 Elements

#### 3.10.5.2.2.1 RaiseOperationInvokeEvent

This element specifies input values for the **RaiseOperationInvoke** operation.

```
<xs:element name="RaiseOperationInvokeEvent">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="operationName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="result" nillable="true" type="xs:anyType" />
      <xs:element minOccurs="0" name="errorException" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/System" type="q1:Exception" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**operationName:** A string that contains the name of the operation.

**result:** A value that indicates the result of the operation.

**errorException:** A value of type **Exception** (section [2.2.4.11.3](#)) that describes any exception thrown in the operation, if there is any; otherwise, this value is null.

### 3.10.5.3 IO365ClientProvider.GetSharePointAddress

This operation MAY [<21>](#) return the address of the SharePoint web portal associated with the Office 365 subscription.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetSharePointAddress">
```



```

    <wsdl:input wsam:Action="http://tempuri.org/IO365ClientProvider/GetSharePointAddress"
    message="tns:IO365ClientProvider_GetSharePointAddress_InputMessage" />
    <wsdl:output
    wsam:Action="http://tempuri.org/IO365ClientProvider/GetSharePointAddressResponse"
    message="tns:IO365ClientProvider_GetSharePointAddress_OutputMessage" />
    <wsdl:fault
    wsam:Action="http://tempuri.org/IO365ClientProvider/GetSharePointAddressO365ConfigureExceptio
    nFault" name="O365ConfigureExceptionFault"
    message="tns:IO365ClientProvider_GetSharePointAddress_O365ConfigureExceptionFault_FaultMessag
    e" />
  </wsdl:operation>

```

Upon receiving the **IO365ClientProvider\_GetSharePointAddress\_InputMessage** request message, the protocol server returns the SharePoint address. Upon successful completion of the action, the server MUST respond with **IO365ClientProvider\_GetSharePointAddress\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.10.5.3.1 Messages

#### 3.10.5.3.1.1 IO365ClientProvider\_GetSharePointAddress\_InputMessage

This is the request for the **GetSharePointAddress** operation.

```

<wsdl:message name="IO365ClientProvider_GetSharePointAddress_InputMessage">
  <wsdl:part name="parameters" element="tns:GetSharePointAddress" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetSharePointAddress
```

The body of the SOAP message MUST contain the **GetSharePointAddress** element.

#### 3.10.5.3.1.2 IO365ClientProvider\_GetSharePointAddress\_OutputMessage

This is the response for the **GetSharePointAddress** operation.

```

<wsdl:message name="IO365ClientProvider_GetSharePointAddress_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetSharePointAddressResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetSharePointAddressResponse
```

The body of the SOAP message MUST contain the **GetSharePointAddressResponse** element.

### 3.10.5.3.2 Elements

#### 3.10.5.3.2.1 GetSharePointAddress

This element specifies input values for the **GetSharePointAddress** operation. This element has no parameters.

```

<xs:element name="GetSharePointAddress">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

### 3.10.5.3.2.2 GetSharePointAddressResponse

This element specifies output values for the **GetSharePointAddress** operation.

```

<xs:element name="GetSharePointAddressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSharePointAddressResult" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetSharePointAddressResult:** A string that contains the address of the requested SharePoint site.

### 3.10.5.4 IO365ClientProvider.IsActivated

This operation MAY [<22>](#) return a value indicating whether Office 365 integration is activated.

```

<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="IsActivated">
  <wsdl:input wsam:Action="http://tempuri.org/IO365ClientProvider/IsActivated"
message="tns:IO365ClientProvider_IsActivated_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IO365ClientProvider/IsActivatedResponse"
message="tns:IO365ClientProvider_IsActivated_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IO365ClientProvider/IsActivated0365ConfigureExceptionFault"
name="O365ConfigureExceptionFault"
message="tns:IO365ClientProvider_IsActivated_O365ConfigureExceptionFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IO365ClientProvider\_IsActivated\_InputMessage** request message, the protocol server checks whether the Office 365 integration is activated. Upon successful completion of the action, the server **MUST** respond with **IO365ClientProvider\_IsActivated\_OutputMessage**. In the event of a failure, an appropriate SOAP fault **MUST** be sent to the client as specified in section [2.2.2.1](#).

#### 3.10.5.4.1 Messages

##### 3.10.5.4.1.1 IO365ClientProvider\_IsActivated\_InputMessage

This is the request for the **IsActivated** operation.

```

<wsdl:message name="IO365ClientProvider_IsActivated_InputMessage">
  <wsdl:part name="parameters" element="tns:IsActivated" />
</wsdl:message>

```

This message **MUST** be sent with the following SOAP action.

```

http://tempuri.org/IProvider/IsActivated

```

The body of the SOAP message MUST contain the **IsActivated** element.

### 3.10.5.4.1.2 IO365ClientProvider\_IsActivated\_OutputMessage

This is the response for the **IsActivated** operation.

```
<wsdl:message name="IO365ClientProvider_IsActivated_OutputMessage">
  <wsdl:part name="parameters" element="tns:IsActivatedResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/IsActivatedResponse
```

The body of the SOAP message MUST contain the **IsActivatedResponse** element.

### 3.10.5.4.2 Elements

#### 3.10.5.4.2.1 IsActivated

This element specifies input values for the **IsActivated** operation. This element has no parameters.

```
<xs:element name="IsActivated">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
```

#### 3.10.5.4.2.2 IsActivatedResponse

This element specifies output values for the **IsActivated** operation.

```
<xs:element name="IsActivatedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsActivatedResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**IsActivatedResult:** A Boolean where TRUE indicates that the Office 365 integration is activated; otherwise, the value is FALSE.

### 3.10.5.5 IPasswordSyncClientProvider.GetPasswordChangeStatus

This operation returns the password change status.

```
name="GetPasswordChangeStatus">
  <wsdl:input
wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatus"
message="tns:IPasswordSyncClientProvider_GetPasswordChangeStatus_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatusResponse"
message="tns:IPasswordSyncClientProvider_GetPasswordChangeStatus_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatusPwdSyncCon
```

```
figureExceptionFault" name="PwdSyncConfigureExceptionFault"
message="tns:IPasswordSyncClientProvider GetPasswordChangeStatus PwdSyncConfigureExceptionFau
lt FaultMessage" />
```

Upon receiving the **IPasswordSyncClientProvider\_GetPasswordChangeStatus\_InputMessage** request message, the protocol server returns the password change status. Upon successful completion of the action, the server MUST respond with **IPasswordSyncClientProvider\_GetPasswordChangeStatus\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

### 3.10.5.5.1 Messages

#### 3.10.5.5.1.1 IPasswordSyncClientProvider\_GetPasswordChangeStatus\_InputMessage

This is the request for the **GetPasswordChangeStatus** operation.

```
<wsdl:message name="IPasswordSyncClientProvider GetPasswordChangeStatus InputMessage">
  <wsdl:part name="parameters" element="tns:GetPasswordChangeStatus" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetPasswordChangeStatus
```

The body of the SOAP message MUST contain the **GetPasswordChangeStatus** element.

#### 3.10.5.5.1.2 IPasswordSyncClientProvider\_GetPasswordChangeStatus\_OutputMessage

This is the response for the **GetPasswordChangeStatus** operation.

```
<wsdl:message name="IPasswordSyncClientProvider GetPasswordChangeStatus OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPasswordChangeStatusResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetPasswordChangeStatusResponse
```

The body of the SOAP message MUST contain the **GetPasswordChangeStatusResponse** element.

### 3.10.5.5.2 Elements

#### 3.10.5.5.2.1 GetPasswordChangeStatus

This element specifies input values for the **GetPasswordChangeStatus** operation.

```
<xs:element name="GetPasswordChangeStatus">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localuser" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**localuser:** A string that contains the name of the local user whose password change status has been queried.

### 3.10.5.5.2.2 GetPasswordChangeStatusResponse

This element specifies output values for the **GetPasswordChangeStatus** operation.

```
<xs:element name="GetPasswordChangeStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetPasswordChangeStatusResult"
        xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.
        PasswordSync" type="q3:PasswordChangeStatus" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPasswordChangeStatusResult:** A **PasswordChangeStatus** (section [2.2.5.10.2](#)) string that contains the password change status of the specified user.

### 3.10.5.6 IPasswordSyncClientProvider.MarkUserPasswordChangeFixed

This operation marks the password change status as fixed.

```
</wsdl:operation>
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
  name="MarkPasswordChangeFixed">
  <wsdl:input>
    wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixed"
    message="tns:IPasswordSyncClientProvider_MarkPasswordChangeFixed_InputMessage" />
  <wsdl:output>
    wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedResponse"
    message="tns:IPasswordSyncClientProvider_MarkPasswordChangeFixed_OutputMessage" />
  <wsdl:fault>
    wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedPwdsyncConfigureExceptionFault"
    name="PwdsyncConfigureExceptionFault"
    message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_PwdsyncConfigureExceptionFault_FaultMessage" />
  </wsdl:fault>
</wsdl:operation>
```

Upon receiving the **IPasswordSyncClientProvider\_MarkPasswordChangeFixed\_InputMessage** request message, the protocol server marks the password change status as fixed. Upon successful completion of the action, the server MUST respond with **IPasswordSyncClientProvider\_MarkPasswordChangeFixed\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.10.5.6.1 Messages

##### 3.10.5.6.1.1 IPasswordSyncClientProvider\_MarkUserPasswordChangeFixed\_InputMessage

This is the request for the **MarkPasswordChangeFixed** operation.

```
<wsdl:message name="IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_InputMessage">
  <wsdl:part name="parameters" element="tns:MarkPasswordChangeFixed" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/MarkUserPasswordChangeFixed
```

The body of the SOAP message MUST contain the **MarkUserPasswordChangeFixed** element.

### 3.10.5.6.1.2 IPasswordSyncClientProvider\_MarkUserPasswordChangeFixed\_OutputMessage

This is the response for the **MarkPasswordChangeFixed** operation.

```
<wsdl:message name="IPasswordSyncClientProvider_MarkPasswordChangeFixed_OutputMessage">  
  <wsdl:part name="parameters" element="tns:MarkPasswordChangeFixedResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/MarkUserPasswordChangeFixedResponse
```

The body of the SOAP message MUST contain the **MarkUserPasswordChangeFixedResponse** element.

## 3.10.5.6.2 Elements

### 3.10.5.6.2.1 MarkUserPasswordChangeFixed

This element specifies input values for the **MarkUserPasswordChangeFixed** operation.

```
<xs:element name="MarkUserPasswordChangeFixed">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="localuser" nillable="true" type="xs:string" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

**localuser:** A string that contains the name of the local user whose password change status needs to be marked fixed.

### 3.10.5.6.2.2 MarkUserPasswordChangeFixedResponse

This element specifies output values for the **MarkUserPasswordChangeFixed** operation. This element has no parameters.

```
<xs:element name="MarkUserPasswordChangeFixedResponse">  
  <xs:complexType>  
    <xs:sequence />  
  </xs:complexType>  
</xs:element>
```

### 3.10.5.7 IO365ClientProvider.GetEmailAddress

This operation MAY [<23>](#) return the email address for the caller.

```
</wsdl:operation>
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="GetEmailAddress">
  <wsdl:input wsam:Action="http://tempuri.org/IO365ClientProvider/GetEmailAddress"
  message="tns:IO365ClientProvider_GetEmailAddress_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IO365ClientProvider/GetEmailAddressResponse"
  message="tns:IO365ClientProvider_GetEmailAddress_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IO365ClientProvider/GetEmailAddress0365ConfigureExceptionFault"
  name="0365ConfigureExceptionFault"
  message="tns:IO365ClientProvider_GetEmailAddress_0365ConfigureExceptionFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IO365ClientProvider\_GetEmailAddress\_InputMessage** request message, the protocol server marks the password change status as fixed. Upon successful completion of the action, the server MUST respond with **IO365ClientProvider\_GetEmailAddress\_OutputMessage**. In the event of a failure, an appropriate SOAP fault MUST be sent to the client as specified in section [2.2.2.1](#).

#### 3.10.5.7.1 Messages

##### 3.10.5.7.1.1 IO365ClientProvider\_GetEmailAddress\_InputMessage

This is the request for the **GetEmailAddress** operation.

```
<wsdl:message name="IO365ClientProvider_GetEmailAddress_InputMessage">
  <wsdl:part name="parameters" element="tns:GetEmailAddress" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetEmailAddress
```

The body of the SOAP message MUST contain the **GetEmailAddress** element.

##### 3.10.5.7.1.2 IO365ClientProvider\_GetEmailAddress\_OutputMessage

This is the response for the **GetEmailAddress** operation.

```
<wsdl:message name="IO365ClientProvider_GetEmailAddress_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEmailAddressResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProvider/GetEmailAddressResponse
```

The body of the SOAP message MUST contain the **GetEmailAddressResponse** element.

#### 3.10.5.7.2 Elements

##### 3.10.5.7.2.1 GetEmailAddress

This element specifies input values for the **GetEmailAddress** operation.

```
<xs:element name="GetEmailAddress">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localuser" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**localuser:** A string that contains the name of the local user whose email address was queried.

### 3.10.5.7.2.2 GetEmailAddressResponse

This element specifies output values for the **GetEmailAddress** operation.

```
<xs:element name="GetEmailAddressResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetEmailAddressResult" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetEmailAddressResult:** A string that contains the email address of the specified user.

## 3.10.6 Timer Events

None.

## 3.10.7 Other Local Events

None.

## 3.11 Client Notification Service Contract Details

### 3.11.1 Abstract Data Model

None. [<24>](#)

### 3.11.2 Timers

None.

### 3.11.3 Initialization

None.

### 3.11.4 Higher-Layer Triggered Events

None.



### 3.11.5 Message Processing Events and Sequencing Rules

OperationContract	Description
<a href="#">IClientRegistrationService.RegisterClient</a>	Registers a client callback channel to the server.
<a href="#">IClientNotificationCallback.NotificationReceived</a>	Indicates a notification event has been received from server.
<a href="#">IClientNotificationProvider.NotifyClientByName</a>	Sends a notification to a client with the specified machine name.
<a href="#">IClientNotificationProvider.NotifyClientById</a>	Sends a notification to a client with the specified SID.
<a href="#">IClientNotificationProvider.NotifyAllClients</a>	Sends a notification to all online clients.

#### 3.11.5.1 IClientRegistrationService.RegisterClient

The operation registers the client callback channel to the server.

```
<wsdl:operation name="RegisterClient">
  <wsdl:input wsam:Action="http://tempuri.org/IClientRegistrationService/RegisterClient"
message="tns:IClientRegistrationService RegisterClient InputMessage" />
</wsdl:operation>
```

Upon receiving the **IClientRegistrationService\_RegisterClient\_InputMessage** request message, the protocol server adds the callback channel handle to its dictionary and the server, the protocol server MAY send notification messages through this channel.

##### 3.11.5.1.1 Messages

###### 3.11.5.1.1.1 IClientRegistrationService\_RegisterClient\_InputMessage

This is the request for the **RegisterClient** operation.

```
<wsdl:message name="IClientRegistrationService_RegisterClient_InputMessage">
  <wsdl:part name="parameters" element="tns:RegisterClient" />
</wsdl:message>
```

The message MUST be sent with the following SOAP action.

```
http://tempuri.org/IClientRegistrationService/RegisterClient
```

The body of the SOAP message MUST contain the **RegisterClient** element.

##### 3.11.5.1.2 Elements

###### 3.11.5.1.2.1 RegisterClient

This element specifies input values for the RegisterClient operation.

```
<xs:element name="RegisterClient">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**clientId:** A string representing the ID of the client.

### 3.11.5.2 IClientNotificationCallback.NotificationReceived

The operation is a callback that processes a notification message from the server.

```
<wsdl:operation name="NotificationReceived">
  <wsdl:output
    wsam:Action="http://tempuri.org/IClientRegistrationService/NotificationReceived"
    message="tns:IClientRegistrationService_NotificationReceived_OutputCallbackMessage" />
  <wsdl:input
    wsam:Action="http://tempuri.org/IClientRegistrationService/NotificationReceivedResponse"
    message="tns:IClientRegistrationService_NotificationReceived_InputCallbackMessage" />
</wsdl:operation>
```

#### 3.11.5.2.1 Messages

##### 3.11.5.2.1.1 IClientNotificationCallback\_NotificationReceived\_OutputCallbackMessage

This message is the request for the **NotificationReceived** operation.

```
<wsdl:message name="IClientRegistrationService_NotificationReceived_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:NotificationReceived" />
</wsdl:message>
```

The message **MUST** be sent with the following SOAP action:

```
http://tempuri.org/IClientRegistrationService/NotificationReceived
```

The body of the SOAP message **MUST** contain the **NotificationReceived** element.

##### 3.11.5.2.1.2 IClientNotificationCallback\_NotificationReceived\_InputCallbackMessage

This message is the response for the **NotificationReceived** operation.

```
<wsdl:message name="IClientRegistrationService_NotificationReceived_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:NotificationReceivedResponse" />
</wsdl:message>
```

The message **MUST** be sent with the following SOAP action:

```
http://tempuri.org/IClientRegistrationService/NotificationReceived
```

The body of the SOAP message **MUST** contain the **NotificationReceivedResponse** element.

#### 3.11.5.2.2 Elements

##### 3.11.5.2.2.1 NotificationReceived

This element specifies input values for the NotificationReceived operation.

```
<xs:element name="NotificationReceived">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**messageId:** An integer representing the ID of the notification message.

**message:** A string that contains the content of the notification message.

### 3.11.5.2.2 NotificationReceivedResponse

This element specifies input values for the NotificationReceivedResponse operation.

```
<xs:element name="NotificationReceivedResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="NotificationReceivedResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**NotificationReceivedResult:** A Boolean where TRUE indicates that the notification was successfully written; otherwise, the value is FALSE.

### 3.11.5.3 IClientNotificationProvider.NotifyClientByName

The operation sends a notification message to a client by using the machine name.

```
<wsdl:operation name="NotifyClientByName">
  <wsdl:input
    wsam:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientByName"
    message="tns:IClientNotificationProvider_NotifyClientByName_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/ClientNotificationProvider/NotifyClientByNameResponse"
    message="tns:IClientNotificationProvider_NotifyClientByName_OutputMessage" />
</wsdl:operation>
```

#### 3.11.5.3.1 Messages

##### 3.11.5.3.1.1 IClientNotificationProvider\_NotifyClientByName\_InputMessage

This message is the request for the **NotifyClientByName** operation.

```
<wsdl:message name="IClientNotificationProvider_NotifyClientByName_InputMessage">
  <wsdl:part name="parameters" element="tns:NotifyClientByName" />
</wsdl:message>
```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/IClientNotificationProvider/NotifyClientByName
```

The body of the SOAP message MUST contain the **NotifyClientByName** element.

### 3.11.5.3.1.2 IClientNotificationProvider\_NotifyClientByName\_OutputMessage

This message is the response for the **NotifyClientByName** operation.

```
<wsdl:message name="IClientNotificationProvider_NotifyClientByName_OutputMessage">
  <wsdl:part name="parameters" element="tns:NotifyClientByNameResponse" />
</wsdl:message>
```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/ClientNotificationProvider/NotifyClientByNameResponse
```

The body of the SOAP message MUST contain the **NotifyClientByNameResponse** element.

### 3.11.5.3.2 Elements

#### 3.11.5.3.2.1 NotifyClientByName

This element specifies input values for the **NotifyClientByName** operation.

```
<xs:element name="NotifyClientByName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**name:** A string representing the ID of the client.

**messageId:** An integer representing the ID of the client notification message.

**message:** A string that contains the content of the client notification message.

#### 3.11.5.3.2.2 NotifyClientByNameResponse

This element specifies output values for the **NotifyClientByName** operation.

```
<xs:element name="NotifyClientByNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="NotifyClientByNameResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**NotifyClientByNameResult:** A Boolean where TRUE indicates that the notification was successfully sent to the client; otherwise, it is FALSE.

### 3.11.5.4 IClientNotificationProvider.NotifyClientById

The operation sends a notification message to a client by using the machine **SID**.

```

    <wsdl:operation name="NotifyClientById">
      <wsdl:input
        wsam:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientById"
        message="tns:IClientNotificationProvider_NotifyClientById_InputMessage" />
      <wsdl:output
        wsam:Action="http://tempuri.org/ClientNotificationProvider/NotifyClientByIdResponse"
        message="tns:IClientNotificationProvider_NotifyClientById_OutputMessage" />
    </wsdl:operation>

```

### 3.11.5.4.1 Messages

#### 3.11.5.4.1.1 IClientNotificationProvider\_NotifyClientById\_InputMessage

This message is the request for the **NotifyClientById** operation.

```

<wsdl:message name="IClientNotificationProvider_NotifyClientById_InputMessage">
  <wsdl:part name="parameters" element="tns:NotifyClientById" />
</wsdl:message>

```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/IClientNotificationProvider/NotifyClientById
```

The body of the SOAP message MUST contain the **NotifyClientById** element.

#### 3.11.5.4.1.2 IClientNotificationProvider\_NotifyClientById\_OutputMessage

This message is the response for the **NotifyClientById** operation.

```

<wsdl:message name="IClientNotificationProvider_NotifyClientById_OutputMessage">
  <wsdl:part name="parameters" element="tns:NotifyClientByIdResponse" />
</wsdl:message>

```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/ClientNotificationProvider/NotifyClientByIdResponse
```

The body of the SOAP message MUST contain the **NotifyClientByIdResponse** element.

### 3.11.5.4.2 Elements

#### 3.11.5.4.2.1 NotifyClientById

This element specifies input values for the **NotifyClientById** operation.

```

<xs:element name="NotifyClientById">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**id:** A string representing the ID of the client.

**messageId:** An integer representing the ID of the client notification message.

**message:** A string that contains the content of the client notification message.

### 3.11.5.4.2.2 NotifyClientByIdResponse

This element specifies output values for the **NotifyClientById** operation.

```
<xs:element name="NotifyClientByIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="NotifyClientByIdResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**NotifyClientByIdResult:** A Boolean where TRUE indicates that the notification was successfully sent to the client; otherwise, it is FALSE.

### 3.11.5.5 IClientNotificationProvider.NotifyAllClients

The operation sends notification messages to all the online clients.

```
<wsdl:operation name="NotifyAllClients">
  <wsdl:input
    wsam:Action="http://tempuri.org/IClientNotificationProvider/NotifyAllClients"
    message="tns:IClientNotificationProvider_NotifyAllClients_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/ClientNotificationProvider/NotifyAllClientsResponse"
    message="tns:IClientNotificationProvider_NotifyAllClients_OutputMessage" />
</wsdl:operation>
```

#### 3.11.5.5.1 Messages

##### 3.11.5.5.1.1 IClientNotificationProvider\_NotifyAllClients\_InputMessage

This message is the request for the **NotifyAllClients** operation.

```
<wsdl:message name="IClientNotificationProvider_NotifyAllClients_InputMessage">
  <wsdl:part name="parameters" element="tns:NotifyAllClients" />
</wsdl:message>
```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/IClientNotificationProvider/NotifyAllClients
```

The body of the SOAP message MUST contain the **NotifyAllClients** element.

##### 3.11.5.5.1.2 IClientNotificationProvider\_NotifyAllClients\_OutputMessage

This message is the response for the **NotifyAllClients** operation.

```
<wsdl:message name="IClientNotificationProvider_NotifyAllClients_OutputMessage">
```

```
<wsdl:part name="parameters" element="tns:NotifyAllClientsResponse" />
</wsdl:message>
```

The message MUST be sent with the following SOAP action:

```
http://tempuri.org/ClientNotificationProvider/NotifyAllClientsResponse
```

The body of the SOAP message MUST contain the **NotifyAllClientsResponse** element.

### 3.11.5.5.2 Elements

#### 3.11.5.5.2.1 NotifyAllClients

This element specifies input values for the **NotifyAllClients** operation.

```
<xs:element name="NotifyAllClients">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**messageId:** An integer representing the ID of the notification message sent to all the clients.

**message:** A string that contains the content of the notification message sent to all the clients.

#### 3.11.5.5.2.2 NotifyAllClientsResponse

This element specifies output values for the **NotifyAllClients** operation.

```
<xs:element name="NotifyAllClientsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="NotifyAllClientsResult" type="NotificationResults"
    />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**NotifyAllClientsResult:** A **NotificationResults** (section [2.2.4.11.2](#)) complex type where TRUE indicates that the notification was successfully sent to all the clients; otherwise, the value is FALSE.

## 4 Protocol Examples

### 4.1 Get the Computer Backup Service Status

The following is the SOAP request message that can be sent to get the status of the Client Computer Backup Service.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IPCBackupServerProvider/GetServiceStatus</a:Action>
    <a:MessageID>urn:uuid:18c442b8-7715-4895-ae63-1d036d073091</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">net.tcp://liming-
sbs1:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_server/Microsoft.WindowsServerSolut
ions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBackupServerProvider</a:To>
  </s:Header>
  <s:Body>
    <GetServiceStatus xmlns="http://tempuri.org/"></GetServiceStatus>
  </s:Body>
</s:Envelope>
```

The following is one example of the SOAP response message for the above request.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IPCBackupServerProvider/GetServiceStatusResponse</a:A
ction>
  </s:Header>
  <s:Body>
    <GetServiceStatusResponse xmlns="http://tempuri.org/">
      <GetServiceStatusResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProt
ection.PCBackup.BackupUtil.WcfContracts" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:Ready>true</d4p1:Ready>
      </GetServiceStatusResult>
    </GetServiceStatusResponse>
  </s:Body>
</s:Envelope>
```



## 5 Security

### 5.1 Security Considerations for Implementers

The Provider Framework protocol is recommended to use TCP transport security in order to secure the communication between protocol client and protocol server, as well as to support authentication. The protocol is recommended to support two authentication types:

1. By user identity
2. By machine identity

Each provider can specify its appropriate authentication type.

#### 5.1.1 User Identity

Stream security settings are recommended to be bound to the endpoint, with protection level configured to support encryption and sign. The channel factory client credential is recommended to be set to the credential of current application logon user, or from the current user of the logon session. Kerberos authentication protocol is used. For more information about Kerberos authentication protocol, see [\[RFC4120\]](#) and [\[MS-KILE\]](#).

More specifically, implementation is recommended to use `WindowsStreamSecurityBindingElement`, setting `ProtectionLevel = EncryptAndSign`.

#### 5.1.2 Machine Identity

Channel security using an SSL stream is recommended to be bound to the endpoint, specifying to require client certificate. SSL authentication protocol is used. For more information about SSL authentication protocol, see [\[RFC2246\]](#).

More specifically, use `SslStreamSecurityBindingElement`, setting `RequireClientCertificate` to `true`. [<25>](#)

### 5.2 Index of Security Parameters

None.

## 6 Appendix A: Full WSDL

### 6.1 Client File Backup Provider Service WSDL

#### 6.1.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="UserConfigProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IUserConfigProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
</wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.FileBackup" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  </xsd:schema>
</wsdl:types>
<wsdl:message name="IUserConfigProvider_GetUserSettingAsync_InputMessage">
  <wsdl:part name="parameters" element="tns:GetUserSettingAsync" />
</wsdl:message>
```

```

<wsdl:message name="IUserConfigProvider GetUserManagedSettingAsync InputMessage">
  <wsdl:part name="parameters" element="tns:GetUserManagedSettingAsync" />
</wsdl:message>
<wsdl:message name="IUserConfigProvider_GetUserSettingCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetUserSettingCompleted" />
</wsdl:message>
<wsdl:message name="IUserConfigProvider_GetClientManagedCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientManagedCompleted" />
</wsdl:message>
<wsdl:portType name="IUserConfigProvider">
  <wsdl:operation name="GetUserSettingAsync">
    <wsdl:input wsaw:Action="http://tempuri.org/IUserConfigProvider/GetUserSettingAsync"
message="tns:IUserConfigProvider_GetUserSettingAsync_InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetUserManagedSettingAsync">
      <wsdl:input
wsaw:Action="http://tempuri.org/IUserConfigProvider/GetUserManagedSettingAsync"
message="tns:IUserConfigProvider_GetUserManagedSettingAsync_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetUserSettingCompleted">
        <wsdl:output
wsaw:Action="http://tempuri.org/IUserConfigProvider/GetUserSettingCompleted"
message="tns:IUserConfigProvider_GetUserSettingCompleted_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetClientManagedCompleted">
          <wsdl:output
wsaw:Action="http://tempuri.org/IUserConfigProvider/GetClientManagedCompleted"
message="tns:IUserConfigProvider_GetClientManagedCompleted_OutputCallbackMessage" />
          </wsdl:operation>
        </wsdl:portType>
        <wsdl:binding name="CustomBinding IUserConfigProvider" type="tns:IUserConfigProvider">
          <wsp:PolicyReference URI="#CustomBinding_IUserConfigProvider_policy" />
          <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
          <wsdl:operation name="GetUserSettingAsync">
            <soap12:operation
soapAction="http://tempuri.org/IUserConfigProvider/GetUserSettingAsync" style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
          </wsdl:operation>
          <wsdl:operation name="GetUserManagedSettingAsync">
            <soap12:operation
soapAction="http://tempuri.org/IUserConfigProvider/GetUserManagedSettingAsync"
style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
          </wsdl:operation>
          <wsdl:operation name="GetUserSettingCompleted">
            <soap12:operation
soapAction="http://tempuri.org/IUserConfigProvider/GetUserSettingCompleted" style="document"
/>
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
          </wsdl:operation>
          <wsdl:operation name="GetClientManagedCompleted">
            <soap12:operation
soapAction="http://tempuri.org/IUserConfigProvider/GetClientManagedCompleted"
style="document" />
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
          </wsdl:operation>
        </wsdl:binding>
        <wsdl:service name="UserConfigProvider">
          <wsdl:port name="CustomBinding_IUserConfigProvider"
binding="tns:CustomBinding_IUserConfigProvider">

```

```

        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.DataProtection.FileBackup
.UserConfigProvider/Microsoft.WindowsServerSolutions.DataProtection.FileBackup.IUserConfigPr
ovider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.DataProtection.File
Backup.UserConfigProvider/Microsoft.WindowsServerSolutions.DataProtection.FileBackup.IUserCon
figProvider</wsa10:Address>
        <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
        <Spn>host/serverName.domain</Spn>
        </Identity>
        </wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

## 6.1.2 http://tempuri.org/

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.FileBackup" />
  <xs:element name="GetUserSettingAsync">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetUserManagedSettingAsync">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetUserSettingCompleted">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Data Protec
tion.FileBackup" minOccurs="0" name="exception" nillable="true"
type="q1:ClientFileBackupException" />
        </xs:element>
        <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Data Protec
tion.FileBackup" minOccurs="0" name="configSet" nillable="true" type="q2:ConfigurationSet" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="GetClientManagedCompleted">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Data Protec
tion.FileBackup" minOccurs="0" name="exception" nillable="true"
type="q3:ClientFileBackupException" />
        </xs:element>
        <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Data Protec
tion.FileBackup" minOccurs="0" name="isManaged" type="q4:ManagedStatus" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:schema>

```

### 6.1.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.FileBackup" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="ClientFileBackupException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:ql="http://schemas.datacontract.org/2004/07/System"
base="ql:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ClientFileBackupException" nillable="true"
type="tns:ClientFileBackupException" />
  <xs:complexType name="ConfigurationSet">
    <xs:sequence>
      <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="CfgVersion" nillable="true" type="q2:Version" />
      <xs:element minOccurs="0" name="FrequencyInMinutes" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="IsEnabled" type="xs:boolean" />
      <xs:element minOccurs="0" name="RetentionInMonths" type="xs:unsignedInt" />
      <xs:element minOccurs="0" name="SourceLibraries" type="tns:SourceLibrary" />
      <xs:element minOccurs="0" name="TargetPath" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="UnmanagedUsers" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ConfigurationSet" nillable="true" type="tns:ConfigurationSet" />
  <xs:simpleType name="SourceLibrary">
    <xs:restriction base="xs:string">
      <xs:enumeration value="DocumentsAndDesktop" />
      <xs:enumeration value="NoMediaLibraries" />
      <xs:enumeration value="All" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SourceLibrary" nillable="true" type="tns:SourceLibrary" />
  <xs:simpleType name="ManagedStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Managed" />
      <xs:enumeration value="NotManaged" />
      <xs:enumeration value="Unknown" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ManagedStatus" nillable="true" type="tns:ManagedStatus" />
</xs:schema>
```

### 6.1.4 <http://schemas.microsoft.com/2003/10/Serialization/>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
```

```

<xs:element name="QName" nillable="true" type="xs:QName" />
<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.1.5 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"
      />
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="tns:Exception" />
  <xs:complexType name="Version">
    <xs:sequence>
      <xs:element name="_Build" type="xs:int" />
      <xs:element name="_Major" type="xs:int" />
      <xs:element name="_Minor" type="xs:int" />
      <xs:element name="_Revision" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="Version" nillable="true" type="tns:Version" />
</xs:schema>

```

## 6.2 Client Backup Provider Service WSDL

### 6.2.1 IPCBackupServerRegister

#### 6.2.1.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="PCBackupServerRegisterImpl"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IPCBackupServerRegister_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:RequireClientCertificate />
                </msf:SslTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
</wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  </xsd:schema>
</wsdl:types>
  <wsdl:message name="IPCBackupServerRegister_RegisterBackupClient_InputMessage">
    <wsdl:part name="parameters" element="tns:RegisterBackupClient" />
  </wsdl:message>
```

```

</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_RegisterBackupClient_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterBackupClientResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerRegister_RegisterBackupClient_InvalidOperationExceptionFault_FaultMessage">
  <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_KeepAlive_InputMessage">
  <wsdl:part name="parameters" element="tns:KeepAlive" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_KeepAlive_OutputMessage">
  <wsdl:part name="parameters" element="tns:KeepAliveResponse" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_VolumeCalculatorProgress_InputMessage">
  <wsdl:part name="parameters" element="tns:VolumeCalculatorProgress" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientPriority" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_GetClientPriority_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetClientPriorityResponse" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_OnBatteryPower_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnBatteryPower" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_OnBatteryPower_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnBatteryPowerResponse" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_StartBackup_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackup" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_StartBackup_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackupResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerRegister_StartBackup_PCBackupClientFaultFault_FaultMessage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q2:PCBackupClientFault" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_CancelBackup_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CancelBackup" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_CancelBackup_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:CancelBackupResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerRegister_CancelBackup_PCBackupClientFaultFault_FaultMessage">
  <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q3:PCBackupClientFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerRegister_UpdateBackupConfiguration_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:UpdateBackupConfiguration" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_SendBackupProgress_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:SendBackupProgress" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_GetFolderChildren_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildren" />
</wsdl:message>
<wsdl:message name="IPCBackupServerRegister_GetFolderChildren_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:GetFolderChildrenResponse" />
</wsdl:message>

```



```

    <wsdl:message
name="IPCBackupServerRegister_GetFolderChildren_PCBackupClientFaultFault_FaultMessage">
    <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q4:PCBackupClientFault" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:CalculateVolumeAsync" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage">
    <wsdl:part name="parameters" element="tns:CalculateVolumeAsyncResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerRegister_CalculateVolumeAsync_PCBackupClientFaultFault_FaultMessage">
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q5:PCBackupClientFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerRegister_CleanFolderSizeCalculation_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:CleanFolderSizeCalculation" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerRegister_GetConnectedVolumes_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:GetConnectedVolumes" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerRegister_GetConnectedVolumes_InputCallbackMessage">
    <wsdl:part name="parameters" element="tns:GetConnectedVolumesResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerRegister_GetConnectedVolumes_PCBackupClientFaultFault_FaultMessage">
    <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q6:PCBackupClientFault" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerRegister_RescanVolumesAsync_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RescanVolumesAsync" />
    </wsdl:message>
    <wsdl:portType name="IPCBackupServerRegister">
    <wsdl:operation name="RegisterBackupClient">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClient"
message="tns:IPCBackupServerRegister_RegisterBackupClient_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClientResponse"
message="tns:IPCBackupServerRegister_RegisterBackupClient_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClientInvalidOperationExceptionFault" name="InvalidOperationExceptionFault"
message="tns:IPCBackupServerRegister_RegisterBackupClient_InvalidOperationExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="KeepAlive">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerRegister/KeepAlive"
message="tns:IPCBackupServerRegister_KeepAlive_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/KeepAliveResponse"
message="tns:IPCBackupServerRegister_KeepAlive_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="VolumeCalculatorProgress">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/VolumeCalculatorProgress"
message="tns:IPCBackupServerRegister_VolumeCalculatorProgress_InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetClientPriority">
    <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetClientPriority"
message="tns:IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage" />
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetClientPriorityResponse"
message="tns:IPCBackupServerRegister_GetClientPriority_InputCallbackMessage" />
    </wsdl:operation>

```

```

    <wsdl:operation name="OnBatteryPower">
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/OnBatteryPower"
message="tns:IPCBackupServerRegister_OnBatteryPower_OutputCallbackMessage" />
      <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/OnBatteryPowerResponse"
message="tns:IPCBackupServerRegister_OnBatteryPower_InputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="StartBackup">
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/StartBackup"
message="tns:IPCBackupServerRegister_StartBackup_OutputCallbackMessage" />
      <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/StartBackupResponse"
message="tns:IPCBackupServerRegister_StartBackup_InputCallbackMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/StartBackupPCBackupClientFaultFault"
name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_StartBackup_PCBackupClientFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CancelBackup">
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackup"
message="tns:IPCBackupServerRegister_CancelBackup_OutputCallbackMessage" />
      <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackupResponse"
message="tns:IPCBackupServerRegister_CancelBackup_InputCallbackMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CancelBackupPCBackupClientFaultFault"
name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_CancelBackup_PCBackupClientFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="UpdateBackupConfiguration">
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/UpdateBackupConfiguration"
message="tns:IPCBackupServerRegister_UpdateBackupConfiguration_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="SendBackupProgress">
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/SendBackupProgress"
message="tns:IPCBackupServerRegister_SendBackupProgress_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetFolderChildren">
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildren"
message="tns:IPCBackupServerRegister_GetFolderChildren_OutputCallbackMessage" />
      <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildrenResponse"
message="tns:IPCBackupServerRegister_GetFolderChildren_InputCallbackMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetFolderChildrenPCBackupClientFaultF
ault" name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_GetFolderChildren_PCBackupClientFaultFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="CalculateVolumeAsync">
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsync"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage" />
      <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsyncResponse"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CalculateVolumeAsyncPCBackupClientFau
ltFault" name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_CalculateVolumeAsync_PCBackupClientFaultFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="CleanFolderSizeCalculation">
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/CleanFolderSizeCalculation"
message="tns:IPCBackupServerRegister_CleanFolderSizeCalculation_OutputCallbackMessage" />
    </wsdl:operation>

```

```

        <wsdl:operation name="GetConnectedVolumes">
            <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumes"
message="tns:IPCBackupServerRegister_GetConnectedVolumes_OutputCallbackMessage" />
            <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumesResponse"
message="tns:IPCBackupServerRegister_GetConnectedVolumes_InputCallbackMessage" />
            <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumesPCBackupClientFaultFault" name="PCBackupClientFaultFault"
message="tns:IPCBackupServerRegister_GetConnectedVolumes_PCBackupClientFaultFault_FaultMessage" />
            </wsdl:operation>
            <wsdl:operation name="RescanVolumesAsync">
                <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerRegister/RescanVolumesAsync"
message="tns:IPCBackupServerRegister_RescanVolumesAsync_OutputCallbackMessage" />
                </wsdl:operation>
            </wsdl:portType>
            <wsdl:binding name="CustomBinding_IPCBackupServerRegister"
type="tns:IPCBackupServerRegister">
                <wsp:PolicyReference URI="#CustomBinding_IPCBackupServerRegister_policy" />
                <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
                <wsdl:operation name="RegisterBackupClient">
                    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/RegisterBackupClient" style="document"
/>
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                    <wsdl:output>
                        <soap12:body use="literal" />
                    </wsdl:output>
                    <wsdl:fault name="InvalidOperationExceptionFault">
                        <soap12:fault use="literal" name="InvalidOperationExceptionFault" namespace="" />
                    </wsdl:fault>
                </wsdl:operation>
                <wsdl:operation name="KeepAlive">
                    <soap12:operation soapAction="http://tempuri.org/IPCBackupServerRegister/KeepAlive"
style="document" />
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                    <wsdl:output>
                        <soap12:body use="literal" />
                    </wsdl:output>
                </wsdl:operation>
                <wsdl:operation name="VolumeCalculatorProgress">
                    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/VolumeCalculatorProgress"
style="document" />
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                </wsdl:operation>
                <wsdl:operation name="GetClientPriority">
                    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/GetClientPriority" style="document" />
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                    <wsdl:output>
                        <soap12:body use="literal" />
                    </wsdl:output>
                </wsdl:operation>
                <wsdl:operation name="OnBatteryPower">
                    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/OnBatteryPower" style="document" />
                    <wsdl:input>

```

```

        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="StartBackup">
    <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerRegister/StartBackup"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupClientFaultFault">
        <soap12:fault use="literal" name="PCBackupClientFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CancelBackup">
    <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerRegister/CancelBackup"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupClientFaultFault">
        <soap12:fault use="literal" name="PCBackupClientFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="UpdateBackupConfiguration">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerRegister/UpdateBackupConfiguration"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SendBackupProgress">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerRegister/SendBackupProgress" style="document"
/>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetFolderChildren">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerRegister/GetFolderChildren" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupClientFaultFault">
        <soap12:fault use="literal" name="PCBackupClientFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CalculateVolumeAsync">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerRegister/CalculateVolumeAsync" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>

```

```

        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupClientFaultFault">
        <soap12:fault use="literal" name="PCBackupClientFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CleanFolderSizeCalculation">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/CleanFolderSizeCalculation"
style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetConnectedVolumes">
        <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/GetConnectedVolumes" style="document"
/>
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="PCBackupClientFaultFault">
                <soap12:fault use="literal" name="PCBackupClientFaultFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
    <wsdl:operation name="RescanVolumesAsync">
        <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/RescanVolumesAsync" style="document"
/>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
</wsdl:binding>
<wsdl:service name="PCBackupServerRegisterImpl">
    <wsdl:port name="CustomBinding_IPCBackupServerRegister"
binding="tns:CustomBinding_IPCBackupServerRegister">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_register/
Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBackupSer
verRegister" />
            <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_regi
ster/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBack
upServerRegister</wsa10:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                <Dns>SERVERNAME</Dns>
            </Identity>
        </wsa10:EndpointReference>
    </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 6.2.1.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" />
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />

```

```

<xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
<xs:element name="RegisterBackupClient">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="RegisterBackupClientResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="RegisterBackupClientResult"
nillable="true" type="q1:ClientConfig" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="KeepAlive">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="KeepAliveResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="VolumeCalculatorProgress">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="guid" type="q2:guid" />
      <xs:element minOccurs="0" name="percentDone" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="folders" nillable="true"
type="q3:ArrayOfFolderInfo" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetClientPriority">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetClientPriorityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetClientPriorityResult" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="OnBatteryPower">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="OnBatteryPowerResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="OnBatteryPowerResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="StartBackup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="automatic" type="xs:boolean" />
      <xs:element minOccurs="0" name="description" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:element minOccurs="0" name="allowPostpone" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="StartBackupResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="CancelBackup">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="CancelBackupResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="UpdateBackupConfiguration">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="backupConfig" nillable="true"
type="q4:ClientConfig" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SendBackupProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="progress" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFolderChildren">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="folderRequest" nillable="true"
type="q5:FolderRequest" />
            <xs:element minOccurs="0" name="index" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetFolderChildrenResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetFolderChildrenResult"
nillable="true" type="q6:FolderInfoGroup" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CalculateVolumeAsync">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="volumeGuid" type="q7:guid" />
            <xs:element xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="excludedFolders" nillable="true" type="q8:ArrayOfstring" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CalculateVolumeAsyncResponse">
    <xs:complexType>

```

```

        <xs:sequence>
          <xs:element minOccurs="0" name="CalculateVolumeAsyncResult" type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CleanFolderSizeCalculation">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConnectedVolumes">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConnectedVolumesResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetConnectedVolumesResult"
nillable="true" type="q9:ArrayOfClientVolumeInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RescanVolumesAsync">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
  </xs:schema>

```

### 6.2.1.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolution.S.DataProtection.PCBackup.BackupUtil.WcfContracts>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="ClientConfig">
    <xs:sequence>
      <xs:element minOccurs="0" name="AnyVolumesIncluded" type="xs:boolean" />
      <xs:element minOccurs="0" name="IsConfigured" type="xs:boolean" />
      <xs:element minOccurs="0" name="WindowEnd" type="xs:int" />
      <xs:element minOccurs="0" name="WindowStart" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ClientConfig" nillable="true" type="tns:ClientConfig" />
  <xs:complexType name="ArrayOfFolderInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="FolderInfo" nillable="true"
type="tns:FolderInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfFolderInfo" nillable="true" type="tns:ArrayOfFolderInfo" />
  <xs:complexType name="FolderInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="ExclusionReason" type="tns:ExclusionReason" />
      <xs:element minOccurs="0" name="FileRecordIndex" type="xs:long" />
      <xs:element minOccurs="0" name="HasChildren" type="xs:boolean" />
      <xs:element minOccurs="0" name="IsFolder" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>

```



```

        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="UsedBytes" type="xs:long" />
    </xs:sequence>
</xs:complexType>
<xs:element name="FolderInfo" nillable="true" type="tns:FolderInfo" />
<xs:simpleType name="ExclusionReason">
    <xs:restriction base="xs:string">
        <xs:enumeration value="NotExcluded" />
        <xs:enumeration value="ClientSideCache" />
        <xs:enumeration value="TemporaryFiles" />
        <xs:enumeration value="DigitalVideoRecorder" />
        <xs:enumeration value="PageFile" />
        <xs:enumeration value="RecycleBin" />
        <xs:enumeration value="HibernationFile" />
        <xs:enumeration value="MemoryDump" />
        <xs:enumeration value="ShadowVolumes" />
        <xs:enumeration value="Other" />
        <xs:enumeration value="Count" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="ExclusionReason" nillable="true" type="tns:ExclusionReason" />
<xs:complexType name="PCBackupClientFault">
    <xs:sequence>
        <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Other" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Reason" type="tns:PCBackupClientFaultReason" />
    </xs:sequence>
</xs:complexType>
<xs:element name="PCBackupClientFault" nillable="true" type="tns:PCBackupClientFault" />
<xs:simpleType name="PCBackupClientFaultReason">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ServerNotReachable" />
        <xs:enumeration value="ClientNotConfigured" />
        <xs:enumeration value="Unknown" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="PCBackupClientFaultReason" nillable="true"
type="tns:PCBackupClientFaultReason" />
<xs:complexType name="FolderRequest">
    <xs:sequence>
        <xs:element minOccurs="0" name="fileRecordIndex" type="xs:long" />
        <xs:element minOccurs="0" name="volumeGuid" type="ser:guid" />
    </xs:sequence>
</xs:complexType>
<xs:element name="FolderRequest" nillable="true" type="tns:FolderRequest" />
<xs:complexType name="FolderInfoGroup">
    <xs:sequence>
        <xs:element minOccurs="0" name="FolderInfoList" nillable="true"
type="tns:ArrayOfFolderInfo" />
        <xs:element minOccurs="0" name="TotalNumChildren" type="xs:int" />
    </xs:sequence>
</xs:complexType>
<xs:element name="FolderInfoGroup" nillable="true" type="tns:FolderInfoGroup" />
<xs:complexType name="ArrayOfClientVolumeInfo">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ClientVolumeInfo" nillable="true"
type="tns:ClientVolumeInfo" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfClientVolumeInfo" nillable="true"
type="tns:ArrayOfClientVolumeInfo" />
<xs:complexType name="ClientVolumeInfo">
    <xs:sequence>
        <xs:element minOccurs="0" name="BackupBytes" type="xs:long" />
        <xs:element minOccurs="0" name="BytesPerCluster" type="xs:int" />
        <xs:element minOccurs="0" name="BytesPerSector" type="xs:int" />
        <xs:element minOccurs="0" name="BytesUsed" type="xs:long" />
        <xs:element minOccurs="0" name="Capacity" type="xs:long" />
    </xs:sequence>
</xs:complexType>

```

```

    <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ExcludedFolders" nillable="true" type="q1:ArrayOfstring" />
    <xs:element minOccurs="0" name="FileSystem" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IsEligibleForBackup" type="xs:boolean" />
    <xs:element minOccurs="0" name="JobsExist" type="xs:boolean" />
    <xs:element minOccurs="0" name="Location" type="tns:VolumeLocation" />
    <xs:element minOccurs="0" name="MountPoint" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Status" type="tns:VolumeStatus" />
    <xs:element minOccurs="0" name="VolumeName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="guid" type="ser:guid" />
    <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="uniqueIdBytes" nillable="true" type="q2:ArrayOfunsignedByte" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ClientVolumeInfo" nillable="true" type="tns:ClientVolumeInfo" />
<xs:simpleType name="VolumeLocation">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Missing" />
    <xs:enumeration value="Internal" />
    <xs:enumeration value="External" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="VolumeLocation" nillable="true" type="tns:VolumeLocation" />
<xs:simpleType name="VolumeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotConfigured" />
    <xs:enumeration value="Exclude" />
    <xs:enumeration value="Include" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="VolumeStatus" nillable="true" type="tns:VolumeStatus" />
</xs:schema>

```

#### 6.2.1.4 http://schemas.microsoft.com/2003/10/Serialization/Arrays

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
  <xs:complexType name="ArrayOfunsignedByte">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedByte"
type="xs:unsignedByte" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedByte" nillable="true" type="tns:ArrayOfunsignedByte" />
</xs:schema>

```

#### 6.2.1.5 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />

```

```

<xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
<xs:element name="boolean" nillable="true" type="xs:boolean" />
<xs:element name="byte" nillable="true" type="xs:byte" />
<xs:element name="dateTime" nillable="true" type="xs:dateTime" />
<xs:element name="decimal" nillable="true" type="xs:decimal" />
<xs:element name="double" nillable="true" type="xs:double" />
<xs:element name="float" nillable="true" type="xs:float" />
<xs:element name="int" nillable="true" type="xs:int" />
<xs:element name="long" nillable="true" type="xs:long" />
<xs:element name="QName" nillable="true" type="xs:QName" />
<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.2.1.6 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="InvalidOperationException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:SystemException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="InvalidOperationException" nillable="true"
    type="tns:InvalidOperationException" />
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"
        />
    </xs:sequence>
  </xs:complexType>
</xs:schema>

```

```

    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
<xs:element name="Exception" nillable="true" type="tns:Exception" />
</xs:schema>

```

## 6.2.2 IPCBackupServerProvider

### 6.2.2.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="PCBackupServerProviderImpl"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IPCBackupServerProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
<wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  </xsd:schema>

```

```

    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
</xsd:schema>
</wsdl:types>
<wsdl:message name="IPCBackupServerProvider_Register_InputMessage">
  <wsdl:part name="parameters" element="tns:Register" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_Register_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_Register_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q1:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_GetClients_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClients" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_GetClients_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientsResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_GetClients_PCBackupServerFaultFault_FaultMessage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q2:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_GetClients_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q3:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_GetClient_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClient" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_GetClient_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_GetClient_PCBackupServerFaultFault_FaultMessage">
  <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q4:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_GetClient_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q5:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_OnBattery_InputMessage">
  <wsdl:part name="parameters" element="tns:OnBattery" />
</wsdl:message>
<wsdl:message name="IPCBackupServerProvider_OnBattery_OutputMessage">
  <wsdl:part name="parameters" element="tns:OnBatteryResponse" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_OnBattery_PCBackupServerFaultFault_FaultMessage">
  <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q6:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_OnBattery_SecurityAccessDeniedExceptionFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q7="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q7:SecurityAccessDeniedException" />
  </wsdl:message>
  <wsdl:message name="IPCBackupServerProvider_GetClientJobs_InputMessage">
    <wsdl:part name="parameters" element="tns:GetClientJobs" />
  </wsdl:message>
  <wsdl:message name="IPCBackupServerProvider_GetClientJobs_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetClientJobsResponse" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider_GetClientJobs_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtec
tion.PCBackup.BackupUtil.WcfContracts" name="detail" element="q8:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetClientJobs_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q9="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q9:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetVolumeJobs_InputMessage">
      <wsdl:part name="parameters" element="tns:GetVolumeJobs" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetVolumeJobs_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetVolumeJobsResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetVolumeJobs_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q10:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetVolumeJobs_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q11="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q11:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetClientVolumes_InputMessage">
      <wsdl:part name="parameters" element="tns:GetClientVolumes" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetClientVolumes_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetClientVolumesResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetClientVolumes_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q12:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetClientVolumes_SecurityAccessDeniedExceptionFault_FaultMessag
e">
    <wsdl:part
xmlns:q13="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q13:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientJobDescription_InputMessage">
      <wsdl:part name="parameters" element="tns:SetClientJobDescription" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientJobDescription_OutputMessage">
      <wsdl:part name="parameters" element="tns:SetClientJobDescriptionResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetClientJobDescription_PCBackupServerFaultFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q14:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider SetClientJobDescription SecurityAccessDeniedExceptionFault FaultMessage">
    <wsdl:part
xmlns:q15="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q15:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientJobRetentionState_InputMessage">
    <wsdl:part name="parameters" element="tns:SetClientJobRetentionState" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientJobRetentionState_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetClientJobRetentionStateResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider SetClientJobRetentionState PCBackupServerFaultFault FaultMessage">
    <wsdl:part
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q16:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetClientJobRetentionState_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q17="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q17:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientVolumeStatus_InputMessage">
    <wsdl:part name="parameters" element="tns:SetClientVolumeStatus" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetClientVolumeStatusResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetClientVolumeStatus_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q18:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetClientVolumeStatus_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q19="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q19:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetExcludedFolders_InputMessage">
    <wsdl:part name="parameters" element="tns:SetExcludedFolders" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider SetExcludedFolders OutputMessage">
    <wsdl:part name="parameters" element="tns:SetExcludedFoldersResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetExcludedFolders_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q20="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q20:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider SetExcludedFolders PCBackupServerFaultFault FaultMessage">
    <wsdl:part
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q21:PCBackupServerFault" />
    </wsdl:message>

```

```

    <wsdl:message name="IPCBackupServerProvider_EnableBackups_InputMessage">
      <wsdl:part name="parameters" element="tns:EnableBackups" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_EnableBackups_OutputMessage">
      <wsdl:part name="parameters" element="tns:EnableBackupsResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_EnableBackups_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q22:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_EnableBackups_SecurityAccessDeniedExceptionFault_FaultMessage">
      <wsdl:part
xmlns:q23="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q23:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_DisableBackups_InputMessage">
      <wsdl:part name="parameters" element="tns:DisableBackups" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_DisableBackups_OutputMessage">
      <wsdl:part name="parameters" element="tns:DisableBackupsResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_DisableBackups_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q24:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_DisableBackups_SecurityAccessDeniedExceptionFault_FaultMessage"
>
      <wsdl:part
xmlns:q25="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q25:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetBackupConfiguration_InputMessage">
      <wsdl:part name="parameters" element="tns:GetBackupConfiguration" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetBackupConfiguration_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetBackupConfigurationResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetBackupConfiguration_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q26:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetBackupConfiguration_SecurityAccessDeniedExceptionFault_Fault
Message">
      <wsdl:part
xmlns:q27="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q27:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetDefaultBackupConfiguration_InputMessage">
      <wsdl:part name="parameters" element="tns:GetDefaultBackupConfiguration" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetDefaultBackupConfiguration_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetDefaultBackupConfigurationResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetDefaultBackupConfiguration_PCBackupServerFaultFault_FaultMes
sage">
      <wsdl:part
xmlns:q28="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q28:PCBackupServerFault" />
    </wsdl:message>

```



```

    <wsdl:message
name="IPCBackupServerProvider_GetDefaultBackupConfiguration_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q29="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q29:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetBackupOperationStatus_InputMessage">
    <wsdl:part name="parameters" element="tns:GetBackupOperationStatus" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetBackupOperationStatus_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetBackupOperationStatusResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetBackupOperationStatus_PCBackupServerFaultFault_FaultMessage"
>
    <wsdl:part
xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q30:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetBackupOperationStatus_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q31="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q31:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetServiceStatus_InputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceStatus" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetServiceStatus_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetServiceStatusResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetServiceStatus_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q32="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q32:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetServiceStatus_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q33="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q33:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetWaitingOperations_InputMessage">
    <wsdl:part name="parameters" element="tns:GetWaitingOperations" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetWaitingOperations_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetWaitingOperationsResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetWaitingOperations_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q34="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q34:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetWaitingOperations_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q35="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q35:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetBackupConfiguration_InputMessage">
    <wsdl:part name="parameters" element="tns:SetBackupConfiguration" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_SetBackupConfiguration_OutputMessage">

```

```

    <wsdl:part name="parameters" element="tns:SetBackupConfigurationResponse" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider_SetBackupConfiguration_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q36="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q36:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_SetBackupConfiguration_SecurityAccessDeniedExceptionFault_Fault
Message">
        <wsdl:part
xmlns:q37="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q37:SecurityAccessDeniedException" />
        </wsdl:message>
        <wsdl:message name="IPCBackupServerProvider_GetUsedBytes_InputMessage">
            <wsdl:part name="parameters" element="tns:GetUsedBytes" />
        </wsdl:message>
        <wsdl:message name="IPCBackupServerProvider_GetUsedBytes_OutputMessage">
            <wsdl:part name="parameters" element="tns:GetUsedBytesResponse" />
        </wsdl:message>
        <wsdl:message
name="IPCBackupServerProvider_GetUsedBytes_PCBackupServerFaultFault_FaultMessage">
            <wsdl:part
xmlns:q38="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q38:PCBackupServerFault" />
            </wsdl:message>
            <wsdl:message
name="IPCBackupServerProvider_GetUsedBytes_SecurityAccessDeniedExceptionFault_FaultMessage">
                <wsdl:part
xmlns:q39="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q39:SecurityAccessDeniedException" />
                </wsdl:message>
                <wsdl:message name="IPCBackupServerProvider_StartCleanup_InputMessage">
                    <wsdl:part name="parameters" element="tns:StartCleanup" />
                </wsdl:message>
                <wsdl:message name="IPCBackupServerProvider_StartCleanup_OutputMessage">
                    <wsdl:part name="parameters" element="tns:StartCleanupResponse" />
                </wsdl:message>
                <wsdl:message
name="IPCBackupServerProvider_StartCleanup_PCBackupServerFaultFault_FaultMessage">
                    <wsdl:part
xmlns:q40="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q40:PCBackupServerFault" />
                    </wsdl:message>
                    <wsdl:message
name="IPCBackupServerProvider_StartCleanup_SecurityAccessDeniedExceptionFault_FaultMessage">
                        <wsdl:part
xmlns:q41="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q41:SecurityAccessDeniedException" />
                        </wsdl:message>
                        <wsdl:message name="IPCBackupServerProvider_CancelCleanup_InputMessage">
                            <wsdl:part name="parameters" element="tns:CancelCleanup" />
                        </wsdl:message>
                        <wsdl:message name="IPCBackupServerProvider_CancelCleanup_OutputMessage">
                            <wsdl:part name="parameters" element="tns:CancelCleanupResponse" />
                        </wsdl:message>
                        <wsdl:message
name="IPCBackupServerProvider_CancelCleanup_PCBackupServerFaultFault_FaultMessage">
                            <wsdl:part
xmlns:q42="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q42:PCBackupServerFault" />
                            </wsdl:message>
                            <wsdl:message
name="IPCBackupServerProvider_CancelCleanup_SecurityAccessDeniedExceptionFault_FaultMessage">
                                <wsdl:part
xmlns:q43="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q43:SecurityAccessDeniedException" />
                                </wsdl:message>

```

```

    <wsdl:message name="IPCBackupServerProvider_StartRepair_InputMessage">
      <wsdl:part name="parameters" element="tns:StartRepair" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_StartRepair_OutputMessage">
      <wsdl:part name="parameters" element="tns:StartRepairResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartRepair_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q44:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartRepair_SecurityAccessDeniedExceptionFault_FaultMessage">
      <wsdl:part
xmlns:q45="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q45:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelRepair_InputMessage">
      <wsdl:part name="parameters" element="tns:CancelRepair" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelRepair_OutputMessage">
      <wsdl:part name="parameters" element="tns:CancelRepairResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelRepair_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q46="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q46:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelRepair_SecurityAccessDeniedExceptionFault_FaultMessage">
      <wsdl:part
xmlns:q47="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q47:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetLastRepairResult_InputMessage">
      <wsdl:part name="parameters" element="tns:GetLastRepairResult" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetLastRepairResult_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetLastRepairResultResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetLastRepairResult_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q48="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q48:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetLastRepairResult_SecurityAccessDeniedExceptionFault_FaultMes
sage">
      <wsdl:part
xmlns:q49="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q49:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_StartConsistencyChecker_InputMessage">
      <wsdl:part name="parameters" element="tns:StartConsistencyChecker" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_StartConsistencyChecker_OutputMessage">
      <wsdl:part name="parameters" element="tns:StartConsistencyCheckerResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartConsistencyChecker_PCBackupServerFaultFault_FaultMessage">
      <wsdl:part
xmlns:q50="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q50:PCBackupServerFault" />
    </wsdl:message>

```

```

    <wsdl:message
name="IPCBackupServerProvider_StartConsistencyChecker_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q51="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q51:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelConsistencyChecker_InputMessage">
    <wsdl:part name="parameters" element="tns:CancelConsistencyChecker" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelConsistencyChecker_OutputMessage">
    <wsdl:part name="parameters" element="tns:CancelConsistencyCheckerResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelConsistencyChecker_PCBackupServerFaultFault_FaultMessage">
    >
    <wsdl:part
xmlns:q52="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q52:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelConsistencyChecker_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q53="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q53:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_Remove_InputMessage">
    <wsdl:part name="parameters" element="tns:Remove" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_Remove_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveResponse" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_Remove_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q54="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q54:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_Remove_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q55="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q55:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CalculateVolumeAsync_InputMessage">
    <wsdl:part name="parameters" element="tns:CalculateVolumeAsync" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CalculateVolumeAsync_OutputMessage">
    <wsdl:part name="parameters" element="tns:CalculateVolumeAsyncResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CalculateVolumeAsync_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q56="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q56:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CalculateVolumeAsync_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q57="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q57:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetFolderChildren_InputMessage">
    <wsdl:part name="parameters" element="tns:GetFolderChildren" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetFolderChildren_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetFolderChildrenResponse" />
    </wsdl:message>

```

```

    <wsdl:message
name="IPCBackupServerProvider_GetFolderChildren_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q58="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q58:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetFolderChildren_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q59="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q59:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetConnectedVolumes_InputMessage">
    <wsdl:part name="parameters" element="tns:GetConnectedVolumes" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_GetConnectedVolumes_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetConnectedVolumesResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetConnectedVolumes_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q60="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q60:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_GetConnectedVolumes_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q61="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q61:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CleanFolderSizeCalculation_InputMessage">
    <wsdl:part name="parameters" element="tns:CleanFolderSizeCalculation" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_StartBackup_InputMessage">
    <wsdl:part name="parameters" element="tns:StartBackup" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_StartBackup_OutputMessage">
    <wsdl:part name="parameters" element="tns:StartBackupResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartBackup_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q62="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q62:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartBackup_SecurityAccessDeniedExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q63="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q63:SecurityAccessDeniedException" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelBackup_InputMessage">
    <wsdl:part name="parameters" element="tns:CancelBackup" />
    </wsdl:message>
    <wsdl:message name="IPCBackupServerProvider_CancelBackup_OutputMessage">
    <wsdl:part name="parameters" element="tns:CancelBackupResponse" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelBackup_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q64="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q64:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_CancelBackup_SecurityAccessDeniedExceptionFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q65="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q65:SecurityAccessDeniedException" />
  </wsdl:message>
  <wsdl:message name="IPCBackupServerProvider_StartBackupService_InputMessage">
    <wsdl:part name="parameters" element="tns:StartBackupService" />
  </wsdl:message>
  <wsdl:message name="IPCBackupServerProvider_StartBackupService_OutputMessage">
    <wsdl:part name="parameters" element="tns:StartBackupServiceResponse" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider_StartBackupService_PCBackupServerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q66="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q66:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider_StartBackupService_SecurityAccessDeniedExceptionFault_FaultMess
age">
      <wsdl:part
xmlns:q67="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q67:SecurityAccessDeniedException" />
      </wsdl:message>
      <wsdl:message name="IPCBackupServerProvider_StopBackupService_InputMessage">
        <wsdl:part name="parameters" element="tns:StopBackupService" />
      </wsdl:message>
      <wsdl:message name="IPCBackupServerProvider_StopBackupService_OutputMessage">
        <wsdl:part name="parameters" element="tns:StopBackupServiceResponse" />
      </wsdl:message>
      <wsdl:message
name="IPCBackupServerProvider_StopBackupService_PCBackupServerFaultFault_FaultMessage">
        <wsdl:part
xmlns:q68="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q68:PCBackupServerFault" />
        </wsdl:message>
        <wsdl:message
name="IPCBackupServerProvider_StopBackupService_SecurityAccessDeniedExceptionFault_FaultMessa
ge">
          <wsdl:part
xmlns:q69="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q69:SecurityAccessDeniedException" />
          </wsdl:message>
          <wsdl:message
name="IPCBackupServerProvider_NotifyBackupOperationStatusChange_OutputCallbackMessage">
            <wsdl:part name="parameters" element="tns:NotifyBackupOperationStatusChange" />
          </wsdl:message>
          <wsdl:message
name="IPCBackupServerProvider_VolumeCalculatorProgress_OutputCallbackMessage">
            <wsdl:part name="parameters" element="tns:VolumeCalculatorProgress" />
          </wsdl:message>
          <wsdl:message
name="IPCBackupServerProvider_NotifyServiceStatusChange_OutputCallbackMessage">
            <wsdl:part name="parameters" element="tns:NotifyServiceStatusChange" />
          </wsdl:message>
          <wsdl:message
name="IPCBackupServerProvider_NotifyBackupClientProviderStatus_OutputCallbackMessage">
            <wsdl:part name="parameters" element="tns:NotifyBackupClientProviderStatus" />
          </wsdl:message>
          <wsdl:portType name="IPCBackupServerProvider">
            <wsdl:operation name="Register">
              <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/Register"
message="tns:IPCBackupServerProvider_Register_InputMessage" />
              <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerProvider/RegisterResponse"
message="tns:IPCBackupServerProvider_Register_OutputMessage" />
              <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/RegisterSecurityAccessDeniedException
Fault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_Register_SecurityAccessDeniedExceptionFault_FaultMessage
" />

```

```

    </wsdl:operation>
    <wsdl:operation name="GetClients">
      <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClients"
message="tns:IPCBackupServerProvider_GetClients_InputMessage" />
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsResponse"
message="tns:IPCBackupServerProvider_GetClients_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClients_PCBackupServerFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientsSecurityAccessDeniedExceptio
onFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClients_SecurityAccessDeniedExceptionFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="GetClient">
      <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClient"
message="tns:IPCBackupServerProvider_GetClient_InputMessage" />
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientResponse"
message="tns:IPCBackupServerProvider_GetClient_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClient_PCBackupServerFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientSecurityAccessDeniedExceptio
nFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClient_SecurityAccessDeniedExceptionFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="OnBattery">
      <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/OnBattery"
message="tns:IPCBackupServerProvider_OnBattery_InputMessage" />
      <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerProvider/OnBatteryResponse"
message="tns:IPCBackupServerProvider_OnBattery_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/OnBatteryPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_OnBattery_PCBackupServerFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/OnBatterySecurityAccessDeniedExceptio
nFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_OnBattery_SecurityAccessDeniedExceptionFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="GetClientJobs">
      <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobs"
message="tns:IPCBackupServerProvider_GetClientJobs_InputMessage" />
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsResponse"
message="tns:IPCBackupServerProvider_GetClientJobs_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClientJobs_PCBackupServerFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientJobsSecurityAccessDeniedExce
ptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClientJobs_SecurityAccessDeniedExceptionFault_FaultMe
ssage" />
    </wsdl:operation>
    <wsdl:operation name="GetVolumeJobs">
      <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobs"
message="tns:IPCBackupServerProvider_GetVolumeJobs_InputMessage" />
      <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsResponse"
message="tns:IPCBackupServerProvider_GetVolumeJobs_OutputMessage" />

```

```

    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsPCBackupServerFaultFault
" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetVolumeJobs_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetVolumeJobsSecurityAccessDeniedExce
ptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetVolumeJobs_SecurityAccessDeniedExceptionFault_FaultMe
ssage" />
    </wsdl:operation>
    <wsdl:operation name="GetClientVolumes">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumes"
message="tns:IPCBackupServerProvider_GetClientVolumes_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesResponse"
message="tns:IPCBackupServerProvider_GetClientVolumes_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesPCBackupServerFaultFa
ult" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClientVolumes_PCBackupServerFaultFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesSecurityAccessDeniedE
xceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClientVolumes_SecurityAccessDeniedExceptionFault_Faul
tMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetClientJobDescription">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescription"
message="tns:IPCBackupServerProvider_SetClientJobDescription_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionResponse"
message="tns:IPCBackupServerProvider_SetClientJobDescription_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionPCBackupServer
FaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetClientJobDescription_PCBackupServerFaultFault_FaultMe
ssage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobDescriptionSecurityAccess
DeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetClientJobDescription_SecurityAccessDeniedExceptionFau
lt_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetClientJobRetentionState">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionState"
message="tns:IPCBackupServerProvider_SetClientJobRetentionState_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStateResponse"
message="tns:IPCBackupServerProvider_SetClientJobRetentionState_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStatePCBackupSer
verFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetClientJobRetentionState_PCBackupServerFaultFault_Faul
tMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientJobRetentionStateSecurityAcc
essDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetClientJobRetentionState_SecurityAccessDeniedException
Fault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetClientVolumeStatus">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatus"
message="tns:IPCBackupServerProvider_SetClientVolumeStatus_InputMessage" />

```



```

    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusResponse"
message="tns:IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetClientVolumeStatus_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetClientVolumeStatus_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetExcludedFolders">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFolders"
message="tns:IPCBackupServerProvider_SetExcludedFolders_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersResponse"
message="tns:IPCBackupServerProvider_SetExcludedFolders_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetExcludedFolders_SecurityAccessDeniedExceptionFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetExcludedFolders_PCBackupServerFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="EnableBackups">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackups"
message="tns:IPCBackupServerProvider_EnableBackups_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsResponse"
message="tns:IPCBackupServerProvider_EnableBackups_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_EnableBackups_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/EnableBackupsSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_EnableBackups_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DisableBackups">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackups"
message="tns:IPCBackupServerProvider_DisableBackups_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsResponse"
message="tns:IPCBackupServerProvider_DisableBackups_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_DisableBackups_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_DisableBackups_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBackupConfiguration">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfiguration"
message="tns:IPCBackupServerProvider_GetBackupConfiguration_InputMessage" />

```

```

    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationResponse"
message="tns:IPCBackupServerProvider_GetBackupConfiguration_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationPCBackupServerF
aultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetBackupConfiguration_PCBackupServerFaultFault_FaultMes
sage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupConfigurationSecurityAccessD
eniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetBackupConfiguration_SecurityAccessDeniedExceptionFaul
t_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetDefaultBackupConfiguration">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfiguration"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationResponse"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationPCBackup
ServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_PCBackupServerFaultFault_F
aultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationSecurity
AccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_SecurityAccessDeniedExcept
ionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBackupOperationStatus">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatus"
message="tns:IPCBackupServerProvider_GetBackupOperationStatus_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusResponse"
message="tns:IPCBackupServerProvider_GetBackupOperationStatus_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusPCBackupServe
rFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetBackupOperationStatus_PCBackupServerFaultFault_FaultM
essage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetBackupOperationStatusSecurityAcces
sDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetBackupOperationStatus_SecurityAccessDeniedExceptionFa
ult_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetServiceStatus">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatus"
message="tns:IPCBackupServerProvider_GetServiceStatus_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusResponse"
message="tns:IPCBackupServerProvider_GetServiceStatus_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusPCBackupServerFaultF
ault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetServiceStatus_PCBackupServerFaultFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetServiceStatus_SecurityAccessDeniedExceptionFault_Faul
tMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetWaitingOperations">

```

```

    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperations"
message="tns:IPCBackupServerProvider_GetWaitingOperations_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsResponse"
message="tns:IPCBackupServerProvider_GetWaitingOperations_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetWaitingOperations_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetWaitingOperations_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetBackupConfiguration">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfiguration"
message="tns:IPCBackupServerProvider_SetBackupConfiguration_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationResponse"
message="tns:IPCBackupServerProvider_SetBackupConfiguration_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_SetBackupConfiguration_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_SetBackupConfiguration_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetUsedBytes">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytes"
message="tns:IPCBackupServerProvider_GetUsedBytes_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesResponse"
message="tns:IPCBackupServerProvider_GetUsedBytes_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetUsedBytes_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetUsedBytesSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetUsedBytes_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="StartCleanup">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanup"
message="tns:IPCBackupServerProvider_StartCleanup_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupResponse"
message="tns:IPCBackupServerProvider_StartCleanup_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_StartCleanup_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_StartCleanup_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CancelCleanup">

```

```

        <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanup"
message="tns:IPCBackupServerProvider_CancelCleanup_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupResponse"
message="tns:IPCBackupServerProvider_CancelCleanup_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CancelCleanup_PCBackupServerFaultFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelCleanupSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelCleanup_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="StartRepair">
        <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartRepair"
message="tns:IPCBackupServerProvider_StartRepair_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairResponse"
message="tns:IPCBackupServerProvider_StartRepair_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_StartRepair_PCBackupServerFaultFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartRepairSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_StartRepair_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CancelRepair">
        <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepair"
message="tns:IPCBackupServerProvider_CancelRepair_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairResponse"
message="tns:IPCBackupServerProvider_CancelRepair_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CancelRepair_PCBackupServerFaultFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelRepairSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelRepair_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetLastRepairResult">
        <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResult"
message="tns:IPCBackupServerProvider_GetLastRepairResult_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultResponse"
message="tns:IPCBackupServerProvider_GetLastRepairResult_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetLastRepairResult_PCBackupServerFaultFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetLastRepairResult_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="StartConsistencyChecker">
        <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyChecker"
message="tns:IPCBackupServerProvider_StartConsistencyChecker_InputMessage" />

```

```

    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerResponse"
message="tns:IPCBackupServerProvider_StartConsistencyChecker_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerPCBackupServer
FaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_StartConsistencyChecker_PCBackupServerFaultFault_FaultMe
ssage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartConsistencyCheckerSecurityAccess
DeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_StartConsistencyChecker_SecurityAccessDeniedExceptionFau
lt_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CancelConsistencyChecker">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyChecker"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerResponse"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerPCBackupServe
rFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_PCBackupServerFaultFault_FaultM
essage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelConsistencyCheckerSecurityAcces
sDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelConsistencyChecker_SecurityAccessDeniedExceptionFau
lt_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="Remove">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/Remove"
message="tns:IPCBackupServerProvider_Remove_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IPCBackupServerProvider/RemoveResponse"
message="tns:IPCBackupServerProvider_Remove_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/RemovePCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_Remove_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/RemoveSecurityAccessDeniedExceptionFa
ult" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_Remove_SecurityAccessDeniedExceptionFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="CalculateVolumeAsync">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsync"
message="tns:IPCBackupServerProvider_CalculateVolumeAsync_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncResponse"
message="tns:IPCBackupServerProvider CalculateVolumeAsync OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncPCBackupServerFau
ltFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_CalculateVolumeAsync_PCBackupServerFaultFault_FaultMessa
ge" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncSecurityAccessDen
iedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider CalculateVolumeAsync SecurityAccessDeniedExceptionFault
FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetFolderChildren">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildren"
message="tns:IPCBackupServerProvider_GetFolderChildren_InputMessage" />

```

```

    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenResponse"
message="tns:IPCBackupServerProvider_GetFolderChildren_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenPCBackupServerFaultF
ault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetFolderChildren_PCBackupServerFaultFault_FaultMessage"
/>
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenSecurityAccessDenied
ExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetFolderChildren_SecurityAccessDeniedExceptionFault_Fau
ltMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetConnectedVolumes">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumes"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesResponse"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesPCBackupServerFaul
tFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_PCBackupServerFaultFault_FaultMessag
e" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesSecurityAccessDeni
edExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetConnectedVolumes_SecurityAccessDeniedExceptionFault_F
aultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CleanFolderSizeCalculation">
    <wsdl:input
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CleanFolderSizeCalculation"
message="tns:IPCBackupServerProvider CleanFolderSizeCalculation InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="StartBackup">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackup"
message="tns:IPCBackupServerProvider StartBackup InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupResponse"
message="tns:IPCBackupServerProvider_StartBackup_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_StartBackup_PCBackupServerFaultFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupSecurityAccessDeniedExcept
ionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_StartBackup_SecurityAccessDeniedExceptionFault_FaultMess
age" />
    </wsdl:operation>
    <wsdl:operation name="CancelBackup">
    <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackup"
message="tns:IPCBackupServerProvider_CancelBackup_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackupResponse"
message="tns:IPCBackupServerProvider CancelBackup OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackupPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider CancelBackup PCBackupServerFaultFault FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackupSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelBackup_SecurityAccessDeniedExceptionFault_FaultMes
sage" />
    </wsdl:operation>

```

```

        <wsdl:operation name="StartBackupService">
            <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupService"
                message="tns:IPCBackupServerProvider_StartBackupService_InputMessage" />
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServiceResponse"
                message="tns:IPCBackupServerProvider_StartBackupService_OutputMessage" />
            <wsdl:fault
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServicePCBackupServerFault
                    Fault" name="PCBackupServerFaultFault"
                message="tns:IPCBackupServerProvider_StartBackupService_PCBackupServerFaultFault_FaultMessage
                    " />
            <wsdl:fault
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StartBackupServiceSecurityAccessDenie
                    dExceptionFault" name="SecurityAccessDeniedExceptionFault"
                message="tns:IPCBackupServerProvider_StartBackupService_SecurityAccessDeniedExceptionFault_Fa
                    ultMessage" />
        </wsdl:operation>
        <wsdl:operation name="StopBackupService">
            <wsdl:input wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupService"
                message="tns:IPCBackupServerProvider_StopBackupService_InputMessage" />
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServiceResponse"
                message="tns:IPCBackupServerProvider_StopBackupService_OutputMessage" />
            <wsdl:fault
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServicePCBackupServerFaultF
                    ault" name="PCBackupServerFaultFault"
                message="tns:IPCBackupServerProvider_StopBackupService_PCBackupServerFaultFault_FaultMessage"
                    />
            <wsdl:fault
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/StopBackupServiceSecurityAccessDenied
                    ExceptionFault" name="SecurityAccessDeniedExceptionFault"
                message="tns:IPCBackupServerProvider_StopBackupService_SecurityAccessDeniedExceptionFault_Fau
                    ltMessage" />
        </wsdl:operation>
        <wsdl:operation name="NotifyBackupOperationStatusChange">
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/NotifyBackupOperationStatusChange"
                message="tns:IPCBackupServerProvider_NotifyBackupOperationStatusChange_OutputCallbackMessage"
                    />
        </wsdl:operation>
        <wsdl:operation name="VolumeCalculatorProgress">
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/VolumeCalculatorProgress"
                message="tns:IPCBackupServerProvider_VolumeCalculatorProgress_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="NotifyServiceStatusChange">
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/NotifyServiceStatusChange"
                message="tns:IPCBackupServerProvider_NotifyServiceStatusChange_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="NotifyBackupClientProviderStatus">
            <wsdl:output
                wsaw:Action="http://tempuri.org/IPCBackupServerProvider/NotifyBackupClientProviderStatus"
                message="tns:IPCBackupServerProvider_NotifyBackupClientProviderStatus_OutputCallbackMessage"
                    />
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_IPCBackupServerProvider"
        type="tns:IPCBackupServerProvider">
        <wsp:PolicyReference URI="#CustomBinding_IPCBackupServerProvider_policy" />
        <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
        <wsdl:operation name="Register">
            <soap12:operation soapAction="http://tempuri.org/IPCBackupServerProvider/Register"
                style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>

```

```

        </wsdl:output>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
          <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetClients">
        <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/GetClients"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
          <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
          <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetClient">
        <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/GetClient"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
          <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
          <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="OnBattery">
        <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/OnBattery"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
          <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
          <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetClientJobs">
        <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/GetClientJobs"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
          <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
          <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>

```



```

    <wsdl:operation name="GetVolumeJobs">
      <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/GetVolumeJobs"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetClientVolumes">
      <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerProvider/GetClientVolumes" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetClientJobDescription">
      <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerProvider/SetClientJobDescription"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetClientJobRetentionState">
      <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerProvider/SetClientJobRetentionState"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetClientVolumeStatus">

```

```

    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/SetClientVolumeStatus"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetExcludedFolders">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/SetExcludedFolders" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="EnableBackups">
    <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/EnableBackups"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="DisableBackups">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/DisableBackups" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
<wsdl:operation name="GetBackupConfiguration">
    <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/GetBackupConfiguration"
style="document" />

```

```

    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PCBackupServerFaultFault">
    <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDefaultBackupConfiguration">
  <soap12:operation
soapAction="http://tempuri.org/IPBackupServerProvider/GetDefaultBackupConfiguration"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PCBackupServerFaultFault">
    <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetBackupOperationStatus">
  <soap12:operation
soapAction="http://tempuri.org/IPBackupServerProvider/GetBackupOperationStatus"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PCBackupServerFaultFault">
    <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetServiceStatus">
  <soap12:operation
soapAction="http://tempuri.org/IPBackupServerProvider/GetServiceStatus" style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="PCBackupServerFaultFault">
    <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
  </wsdl:fault>
  <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetWaitingOperations">
  <soap12:operation
soapAction="http://tempuri.org/IPBackupServerProvider/GetWaitingOperations" style="document"
/>
  <wsdl:input>
    <soap12:body use="literal" />

```

```

    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
      <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
      <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="SetBackupConfiguration">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/SetBackupConfiguration"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
      <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
      <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetUsedBytes">
    <soap12:operation soapAction="http://tempuri.org/IPCBackupServerProvider/GetUsedBytes"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
      <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
      <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="StartCleanup">
    <soap12:operation soapAction="http://tempuri.org/IPCBackupServerProvider/StartCleanup"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
      <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
      <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="CancelCleanup">
    <soap12:operation soapAction="http://tempuri.org/IPCBackupServerProvider/CancelCleanup"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="StartRepair">
        <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/StartRepair"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CancelRepair">
        <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/CancelRepair"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetLastRepairResult">
        <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/GetLastRepairResult" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="StartConsistencyChecker">
        <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/StartConsistencyChecker"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

```

```

        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CancelConsistencyChecker">
        <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/CancelConsistencyChecker"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="Remove">
        <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/Remove"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CalculateVolumeAsync">
        <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/CalculateVolumeAsync" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetFolderChildren">
        <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/GetFolderChildren" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PCBackupServerFaultFault">
            <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>

```

```

    </wsdl:operation>
    <wsdl:operation name="GetConnectedVolumes">
      <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/GetConnectedVolumes" style="document"
/>
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CleanFolderSizeCalculation">
      <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/CleanFolderSizeCalculation"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="StartBackup">
      <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/StartBackup"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CancelBackup">
      <soap12:operation soapAction="http://tempuri.org/IPCBBackupServerProvider/CancelBackup"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="StartBackupService">
      <soap12:operation
soapAction="http://tempuri.org/IPCBBackupServerProvider/StartBackupService" style="document"
/>
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="PCBackupServerFaultFault">

```

```

        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="StopBackupService">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/StopBackupService" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PCBackupServerFaultFault">
        <soap12:fault use="literal" name="PCBackupServerFaultFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="NotifyBackupOperationStatusChange">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/NotifyBackupOperationStatusChange"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="VolumeCalculatorProgress">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/VolumeCalculatorProgress"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="NotifyServiceStatusChange">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/NotifyServiceStatusChange"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="NotifyBackupClientProviderStatus">
    <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/NotifyBackupClientProviderStatus"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="PCBackupServerProviderImpl">
    <wsdl:port name="CustomBinding IPCBackupServerProvider"
binding="tns:CustomBinding_IPCBackupServerProvider">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_server/Mi
crosoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBackupServe
rProvider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_serv
er/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBackup
ServerProvider</wsa10:Address>
        <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
            <Spn>host/serverName.domain</Spn>

```



```

        </Identity>
    </wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 6.2.2.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="Register">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="RegisterResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetClients">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetClientsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetClientsResult" nillable="true"
type="q1:ArrayOfClientConfigurationInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetClient">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetClientResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetClientResult" nillable="true"
type="q2:ClientConfigurationInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="OnBattery">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

<xs:element name="OnBatteryResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="OnBatteryResult"
type="q3:GetOnBatteryResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetClientJobs">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="index" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetClientJobsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetClientJobsResult"
nillable="true" type="q4:ArrayOfClientJobInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetVolumeJobs">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="jobIndex" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetVolumeJobsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetVolumeJobsResult"
nillable="true" type="q5:ArrayOfVolumeJobInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetClientVolumes">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetClientVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetClientVolumesResult"
nillable="true" type="q6:ArrayOfClientVolumeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetClientJobDescription">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="clientJobIndex" type="xs:int" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetClientJobDescriptionResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="SetClientJobRetentionState">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="clientJobIndex" type="xs:int" />
          <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="retentionState"
type="q7:RetentionState" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetClientJobRetentionStateResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="SetClientVolumeStatus">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
          <xs:element xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="volumeGuid" type="q8:guid" />
          <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="Status" type="q9:VolumeStatus" />
          <xs:element minOccurs="0" name="DeleteJobs" type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetClientVolumeStatusResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="SetExcludedFolders">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
          <xs:element xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="volumeGuid" type="q10:guid" />
          <xs:element xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="excludedFolders" nillable="true" type="q11:ArrayOfstring" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetExcludedFoldersResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="EnableBackups">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="EnableBackupsResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="DisableBackups">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="deleteAllJobs" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DisableBackupsResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetBackupConfiguration">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetBackupConfigurationResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetBackupConfigurationResult"
nillable="true" type="q12:PCBackupConfiguration" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultBackupConfiguration">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetDefaultBackupConfigurationResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0"
name="GetDefaultBackupConfigurationResult" nillable="true" type="q13:PCBackupConfiguration"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetBackupOperationStatus">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetBackupOperationStatusResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetBackupOperationStatusResult"
nillable="true" type="q14:OperationStatusResponse" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceStatus">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServiceStatusResponse">
    <xs:complexType>
      <xs:sequence>

```

```

    <xs:element
xmlns:q15="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetServiceStatusResult"
nillable="true" type="q15:ServiceStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetWaitingOperations">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetWaitingOperationsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetWaitingOperationsResult"
nillable="true" type="q16:ArrayOfWaitingOperation" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
<xs:element name="SetBackupConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q17="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="backupConfig" nillable="true"
type="q17:PCBackupConfiguration" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
<xs:element name="SetBackupConfigurationResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetUsedBytes">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetUsedBytesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetUsedBytesResult" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="StartCleanup">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="StartCleanupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelCleanup">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelCleanupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

```

<xs:element name="StartRepair">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="StartRepairResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelRepair">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelRepairResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetLastRepairResult">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetLastRepairResultResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetLastRepairResultResult"
nillable="true" type="q18:RepairResult" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
<xs:element name="StartConsistencyChecker">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="fPreempt" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="StartConsistencyCheckerResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelConsistencyChecker">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CancelConsistencyCheckerResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="Remove">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>

```

```

<xs:element name="CalculateVolumeAsync">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element xmlns:q19="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="volumeGuid" type="q19:guid" />
      <xs:element xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="excludedFolders" nillable="true" type="q20:ArrayOfstring" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CalculateVolumeAsyncResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CalculateVolumeAsyncResult" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFolderChildren">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="folderRequest" nillable="true"
type="q21:FolderRequest" />
      <xs:element minOccurs="0" name="index" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetFolderChildrenResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q22="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetFolderChildrenResult"
nillable="true" type="q22:FolderInfoGroup" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetConnectedVolumes">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetConnectedVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="GetConnectedVolumesResult"
nillable="true" type="q23:ArrayOfClientVolumeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CleanFolderSizeCalculation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="StartBackup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="description" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="StartBackupResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="CancelBackup">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CancelBackupResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="StartBackupService">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="StartBackupServiceResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="StopBackupService">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="reason" type="q24:StopReason" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="StopBackupServiceResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="NotifyBackupOperationStatusChange">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q25="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="backupOperationStatus"
nillable="true" type="q25:OperationStatusResponse" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="VolumeCalculatorProgress">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q26="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="guid" type="q26:guid" />
            <xs:element minOccurs="0" name="percentDone" type="xs:int" />
            <xs:element
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="folders" nillable="true"
type="q27:ArrayOfFolderInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="NotifyServiceStatusChange">
    <xs:complexType>

```



```

        <xs:sequence>
          <xs:element
            xmlns:q28="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" minOccurs="0" name="serviceStatus" nillable="true"
            type="q28:ServiceStatusResponse" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="NotifyBackupClientProviderStatus">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="clientSid" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:schema>

```

### 6.2.2.3 http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolution.s.DataProtection.PCBackup.BackupUtil.WcfContracts

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="ArrayOfClientConfigurationInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ClientConfigurationInfo"
        nillable="true" type="tns:ClientConfigurationInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfClientConfigurationInfo" nillable="true"
    type="tns:ArrayOfClientConfigurationInfo" />
  <xs:complexType name="ClientConfigurationInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="AllVolumesConfigured" type="xs:boolean" />
      <xs:element minOccurs="0" name="AnyVolumesIncluded" type="xs:boolean" />
      <xs:element minOccurs="0" name="IsConfigured" type="xs:boolean" />
      <xs:element minOccurs="0" name="IsOnline" type="xs:boolean" />
      <xs:element minOccurs="0" name="JobsExist" type="xs:boolean" />
      <xs:element minOccurs="0" name="LastBackupEnabledTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="LastGoodBackupTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="LastStatus" type="tns:ClientJobStatus" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Sid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ClientConfigurationInfo" nillable="true"
    type="tns:ClientConfigurationInfo" />
  <xs:simpleType name="ClientJobStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Complete" />
      <xs:enumeration value="Incomplete" />
      <xs:enumeration value="Failed" />
      <xs:enumeration value="InProgress" />
      <xs:enumeration value="InQueue" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ClientJobStatus" nillable="true" type="tns:ClientJobStatus" />
  <xs:complexType name="PCBackupServerFault">
    <xs:sequence>
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />

```

```

        <xs:element minOccurs="0" name="Other" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Reason" type="tns:PCBackupServerFaultReason" />
    </xs:sequence>
</xs:complexType>
<xs:element name="PCBackupServerFault" nillable="true" type="tns:PCBackupServerFault" />
<xs:simpleType name="PCBackupServerFaultReason">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ClientNotReachable" />
        <xs:enumeration value="ClientNotConfigured" />
        <xs:enumeration value="ServiceBusy" />
        <xs:enumeration value="ServiceNotReachable" />
        <xs:enumeration value="ClientNotFound" />
        <xs:enumeration value="ClientJobNotFound" />
        <xs:enumeration value="ClientVolumeNotFound" />
        <xs:enumeration value="RepairRunning" />
        <xs:enumeration value="DBHasErrors" />
        <xs:enumeration value="DBIsOffline" />
        <xs:enumeration value="ArgumentOutOfRange" />
        <xs:enumeration value="UnexpectedError" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="PCBackupServerFaultReason" nillable="true"
type="tns:PCBackupServerFaultReason" />
<xs:simpleType name="GetOnBatteryResult">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Failed" />
        <xs:enumeration value="OnBattery" />
        <xs:enumeration value="NotOnBattery" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="GetOnBatteryResult" nillable="true" type="tns:GetOnBatteryResult" />
<xs:complexType name="ArrayOfClientJobInfo">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ClientJobInfo" nillable="true"
type="tns:ClientJobInfo" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfClientJobInfo" nillable="true" type="tns:ArrayOfClientJobInfo" />
<xs:complexType name="ClientJobInfo">
    <xs:sequence>
        <xs:element minOccurs="0" name="BytesUsed" type="xs:long" />
        <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Duration" type="ser:duration" />
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="FailureDetails" nillable="true" type="q1:ArrayOfstring" />
        <xs:element minOccurs="0" name="Index" type="xs:int" />
        <xs:element minOccurs="0" name="IsAutomatic" type="xs:boolean" />
        <xs:element minOccurs="0" name="StartTime" type="xs:dateTime" />
        <xs:element minOccurs="0" name="Status" type="tns:ClientJobStatus" />
        <xs:element minOccurs="0" name="failureReason" type="tns:AbortReason" />
        <xs:element minOccurs="0" name="retentionState" type="tns:RetentionState" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ClientJobInfo" nillable="true" type="tns:ClientJobInfo" />
<xs:simpleType name="AbortReason">
    <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Authentication" />
        <xs:enumeration value="VersionMismatch" />
        <xs:enumeration value="Cancel" />
        <xs:enumeration value="ServerUnreachable" />
        <xs:enumeration value="ClientVssProblem" />
        <xs:enumeration value="ClientVssInsufficientSpace" />
        <xs:enumeration value="ClientIoError" />
        <xs:enumeration value="ClientException" />
        <xs:enumeration value="DBErrors" />
        <xs:enumeration value="ConnectionLost" />
        <xs:enumeration value="NotConfigured" />
        <xs:enumeration value="ServerFailure" />
    </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="Unknown" />
    <xs:enumeration value="VolumeMissing">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">21</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="CantOpenVolume">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="BadFileSystem">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="DBIsOffline">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    <xs:enumeration value="EspCaptureFailed">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">25</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:element name="AbortReason" nillable="true" type="tns:AbortReason" />
<xs:simpleType name="RetentionState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Delete" />
    <xs:enumeration value="Normal" />
    <xs:enumeration value="Locked" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="RetentionState" nillable="true" type="tns:RetentionState" />
<xs:complexType name="ArrayOfVolumeJobInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="VolumeJobInfo" nillable="true"
type="tns:VolumeJobInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfVolumeJobInfo" nillable="true" type="tns:ArrayOfVolumeJobInfo" />
<xs:complexType name="VolumeJobInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="BadFiles" nillable="true" type="tns:ArrayOfBadFileInfo"
/>
    <xs:element minOccurs="0" name="BytesPerCluster" type="xs:int" />
    <xs:element minOccurs="0" name="BytesPerSector" type="xs:int" />
    <xs:element minOccurs="0" name="BytesUsed" type="xs:long" />
    <xs:element minOccurs="0" name="Duration" type="ser:duration" />
    <xs:element minOccurs="0" name="ExcludedFolders" nillable="true"
type="tns:ArrayOfExcludedFolderInfo" />
  </xs:sequence>
</xs:complexType>

```

```

    <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="FailureDetails" nillable="true" type="q2:ArrayOfstring" />
    <xs:element minOccurs="0" name="FileSystem" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="InitialCapacity" type="xs:long" />
    <xs:element minOccurs="0" name="MinimumCapacity" type="xs:long" />
    <xs:element minOccurs="0" name="MountPoint" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="StartTimeUtc" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Status" type="tns:VolumeJobStatus" />
    <xs:element minOccurs="0" name="VolumeName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="autoExclusionSizes" nillable="true"
type="tns:AutoExclusionSizesInfo" />
    <xs:element minOccurs="0" name="failureReason" type="tns:AbortReason" />
    <xs:element minOccurs="0" name="uniqueIdBytes" nillable="true" type="xs:base64Binary"
/>
    <xs:element minOccurs="0" name="volumeInfo" nillable="true" type="tns:ClientVolumeInfo"
/>
  </xs:sequence>
</xs:complexType>
<xs:element name="VolumeJobInfo" nillable="true" type="tns:VolumeJobInfo" />
<xs:complexType name="ArrayOfBadFileInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="BadFileInfo" nillable="true"
type="tns:BadFileInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfBadFileInfo" nillable="true" type="tns:ArrayOfBadFileInfo" />
<xs:complexType name="BadFileInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Size" type="xs:long" />
  </xs:sequence>
</xs:complexType>
<xs:element name="BadFileInfo" nillable="true" type="tns:BadFileInfo" />
<xs:complexType name="ArrayOfExcludedFolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ExcludedFolderInfo"
nillable="true" type="tns:ExcludedFolderInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfExcludedFolderInfo" nillable="true"
type="tns:ArrayOfExcludedFolderInfo" />
<xs:complexType name="ExcludedFolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="IsAutomatic" type="xs:boolean" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Size" type="xs:long" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ExcludedFolderInfo" nillable="true" type="tns:ExcludedFolderInfo" />
<xs:simpleType name="VolumeJobStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Complete" />
    <xs:enumeration value="Broken" />
    <xs:enumeration value="Failed" />
    <xs:enumeration value="Cancelled" />
    <xs:enumeration value="Skipped" />
    <xs:enumeration value="CheckPoint" />
    <xs:enumeration value="NotStarted" />
    <xs:enumeration value="InProgress" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="VolumeJobStatus" nillable="true" type="tns:VolumeJobStatus" />
<xs:complexType name="AutoExclusionSizesInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ClientSideCache" type="xs:long" />
    <xs:element minOccurs="0" name="DigitalVideoRecorder" type="xs:long" />
    <xs:element minOccurs="0" name="HibernationFile" type="xs:long" />
    <xs:element minOccurs="0" name="MemoryDump" type="xs:long" />
    <xs:element minOccurs="0" name="Other" type="xs:long" />
  </xs:sequence>
</xs:complexType>

```

```

    <xs:element minOccurs="0" name="PageFile" type="xs:long" />
    <xs:element minOccurs="0" name="RecycleBin" type="xs:long" />
    <xs:element minOccurs="0" name="ShadowVolumes" type="xs:long" />
    <xs:element minOccurs="0" name="TemporaryFiles" type="xs:long" />
  </xs:sequence>
</xs:complexType>
<xs:element name="AutoExclusionSizesInfo" nillable="true" type="tns:AutoExclusionSizesInfo" />
/>
<xs:complexType name="ClientVolumeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="BackupBytes" type="xs:long" />
    <xs:element minOccurs="0" name="BytesPerCluster" type="xs:int" />
    <xs:element minOccurs="0" name="BytesPerSector" type="xs:int" />
    <xs:element minOccurs="0" name="BytesUsed" type="xs:long" />
    <xs:element minOccurs="0" name="Capacity" type="xs:long" />
    <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ExcludedFolders" nillable="true" type="q3:ArrayOfstring" />
    <xs:element minOccurs="0" name="FileSystem" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="IsEligibleForBackup" type="xs:boolean" />
    <xs:element minOccurs="0" name="JobsExist" type="xs:boolean" />
    <xs:element minOccurs="0" name="Location" type="tns:VolumeLocation" />
    <xs:element minOccurs="0" name="MountPoint" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Status" type="tns:VolumeStatus" />
    <xs:element minOccurs="0" name="VolumeName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="guid" type="ser:guid" />
    <xs:element xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="uniqueIdBytes" nillable="true" type="q4:ArrayOfunsignedByte" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ClientVolumeInfo" nillable="true" type="tns:ClientVolumeInfo" />
<xs:simpleType name="VolumeLocation">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Missing" />
    <xs:enumeration value="Internal" />
    <xs:enumeration value="External" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="VolumeLocation" nillable="true" type="tns:VolumeLocation" />
<xs:simpleType name="VolumeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotConfigured" />
    <xs:enumeration value="Exclude" />
    <xs:enumeration value="Include" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="VolumeStatus" nillable="true" type="tns:VolumeStatus" />
<xs:complexType name="ArrayOfClientVolumeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ClientVolumeInfo" nillable="true"
type="tns:ClientVolumeInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfClientVolumeInfo" nillable="true"
type="tns:ArrayOfClientVolumeInfo" />
<xs:complexType name="PCBackupConfiguration">
  <xs:sequence>
    <xs:element minOccurs="0" name="alertDiskBytes" type="xs:long" />
    <xs:element minOccurs="0" name="dailyRetainCount" type="xs:unsignedInt" />
    <xs:element minOccurs="0" name="monthlyRetainCount" type="xs:unsignedInt" />
    <xs:element minOccurs="0" name="weeklyRetainCount" type="xs:unsignedInt" />
    <xs:element minOccurs="0" name="windowEndTime" type="ser:duration" />
    <xs:element minOccurs="0" name="windowStartTime" type="ser:duration" />
    <xs:element minOccurs="0" name="yearlyRetainCount" type="xs:unsignedInt" />
  </xs:sequence>
</xs:complexType>
<xs:element name="PCBackupConfiguration" nillable="true" type="tns:PCBackupConfiguration" />
/>
<xs:complexType name="OperationStatusResponse">
  <xs:sequence>

```

```

    <xs:element minOccurs="0" name="ClientSid" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Machine" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Operation" type="tns:PCBackupStatusOperation" />
    <xs:element minOccurs="0" name="PercentDone" type="xs:int" />
    <xs:element minOccurs="0" name="Phase" type="tns:PCBackupVolumePhase" />
    <xs:element minOccurs="0" name="RepairState" type="tns:PCBackupRepairState" />
  </xs:sequence>
</xs:complexType>
<xs:element name="OperationStatusResponse" nillable="true"
type="tns:OperationStatusResponse" />
<xs:simpleType name="PCBackupStatusOperation">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="DeleteBackup" />
    <xs:enumeration value="Cleanup" />
    <xs:enumeration value="Backup" />
    <xs:enumeration value="PrepareRestore" />
    <xs:enumeration value="BasicChecker" />
    <xs:enumeration value="ComprehensiveChecker" />
    <xs:enumeration value="Suspend" />
    <xs:enumeration value="Repair">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">20</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Unknown">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">100</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
<xs:element name="PCBackupStatusOperation" nillable="true"
type="tns:PCBackupStatusOperation" />
<xs:simpleType name="PCBackupVolumePhase">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Idle" />
    <xs:enumeration value="ScanFileRecords" />
    <xs:enumeration value="ScanClusters" />
    <xs:enumeration value="Reorganize1" />
    <xs:enumeration value="SendClusters" />
    <xs:enumeration value="Reorganize2" />
    <xs:enumeration value="Complete" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="PCBackupVolumePhase" nillable="true" type="tns:PCBackupVolumePhase" />
<xs:simpleType name="PCBackupRepairState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotStarted" />
    <xs:enumeration value="RepairNoErrors" />
    <xs:enumeration value="RepairDBIsNew" />
    <xs:enumeration value="RepairDBIsOld" />
    <xs:enumeration value="RepairInProgress" />
    <xs:enumeration value="RepairSucceeded" />
    <xs:enumeration value="RepairFailed" />
    <xs:enumeration value="RepairCanceled" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="PCBackupRepairState" nillable="true" type="tns:PCBackupRepairState" />
<xs:complexType name="ServiceStatusResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="Ready" type="xs:boolean" />

```

```

    </xs:sequence>
  </xs:complexType>
  <xs:element name="ServiceStatusResponse" nillable="true" type="tns:ServiceStatusResponse"
/>
  <xs:complexType name="ArrayOfWaitingOperation">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="WaitingOperation" nillable="true"
type="tns:WaitingOperation" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfWaitingOperation" nillable="true"
type="tns:ArrayOfWaitingOperation" />
  <xs:complexType name="WaitingOperation">
    <xs:sequence>
      <xs:element minOccurs="0" name="MachineName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="MachineSID" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Operation" type="tns:PCBackupStatusOperation" />
      <xs:element minOccurs="0" name="PercentComplete" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="WaitingOperation" nillable="true" type="tns:WaitingOperation" />
  <xs:complexType name="RepairResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="ClientStatus" nillable="true"
type="tns:ArrayOfClientRepairStatus" />
      <xs:element minOccurs="0" name="RepairStartTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="RepairState" type="tns:PCBackupRepairState" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="RepairResult" nillable="true" type="tns:RepairResult" />
  <xs:complexType name="ArrayOfClientRepairStatus">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ClientRepairStatus"
nillable="true" type="tns:ClientRepairStatus" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfClientRepairStatus" nillable="true"
type="tns:ArrayOfClientRepairStatus" />
  <xs:complexType name="ClientRepairStatus">
    <xs:sequence>
      <xs:element minOccurs="0" name="DataStatus" type="tns:PCClientDataStatus" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Sid" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ClientRepairStatus" nillable="true" type="tns:ClientRepairStatus" />
  <xs:simpleType name="PCClientDataStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NoLoss" />
      <xs:enumeration value="PartialLoss" />
      <xs:enumeration value="FullLoss" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="PCClientDataStatus" nillable="true" type="tns:PCClientDataStatus" />
  <xs:complexType name="FolderRequest">
    <xs:sequence>
      <xs:element minOccurs="0" name="fileRecordIndex" type="xs:long" />
      <xs:element minOccurs="0" name="volumeGuid" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="FolderRequest" nillable="true" type="tns:FolderRequest" />
  <xs:complexType name="FolderInfoGroup">
    <xs:sequence>
      <xs:element minOccurs="0" name="FolderInfoList" nillable="true"
type="tns:ArrayOfFolderInfo" />
      <xs:element minOccurs="0" name="TotalNumChildren" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="FolderInfoGroup" nillable="true" type="tns:FolderInfoGroup" />

```

```

<xs:complexType name="ArrayOfFolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FolderInfo" nillable="true"
type="tns:FolderInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfFolderInfo" nillable="true" type="tns:ArrayOfFolderInfo" />
<xs:complexType name="FolderInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ExclusionReason" type="tns:ExclusionReason" />
    <xs:element minOccurs="0" name="FileRecordIndex" type="xs:long" />
    <xs:element minOccurs="0" name="HasChildren" type="xs:boolean" />
    <xs:element minOccurs="0" name="IsFolder" type="xs:boolean" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UsedBytes" type="xs:long" />
  </xs:sequence>
</xs:complexType>
<xs:element name="FolderInfo" nillable="true" type="tns:FolderInfo" />
<xs:simpleType name="ExclusionReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotExcluded" />
    <xs:enumeration value="ClientSideCache" />
    <xs:enumeration value="TemporaryFiles" />
    <xs:enumeration value="DigitalVideoRecorder" />
    <xs:enumeration value="PageFile" />
    <xs:enumeration value="RecycleBin" />
    <xs:enumeration value="HibernationFile" />
    <xs:enumeration value="MemoryDump" />
    <xs:enumeration value="ShadowVolumes" />
    <xs:enumeration value="Other" />
    <xs:enumeration value="Count" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="ExclusionReason" nillable="true" type="tns:ExclusionReason" />
<xs:simpleType name="StopReason">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None" />
    <xs:enumeration value="DatabaseRestore" />
    <xs:enumeration value="DatabaseRepair" />
    <xs:enumeration value="DatabaseLocationChanged" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="StopReason" nillable="true" type="tns:StopReason" />
</xs:schema>

```

#### 6.2.2.4 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
  <xs:complexType name="ArrayOfunsignedByte">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedByte"
type="xs:unsignedByte" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedByte" nillable="true" type="tns:ArrayOfunsignedByte" />

```



```
</xs:schema>
```

### 6.2.2.5 <http://schemas.microsoft.com/2003/10/Serialization>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>
```

### 6.2.2.6 <http://schemas.datacontract.org/2004/07/System.ServiceModel.Security>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
  <xs:complexType name="SecurityAccessDeniedException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:ql="http://schemas.datacontract.org/2004/07/System.ServiceModel"
base="ql:CommunicationException" />
    </xs:complexContent>
  </xs:complexType>
```

```

    </xs:complexType>
    <xs:element name="SecurityAccessDeniedException" nillable="true"
type="tns:SecurityAccessDeniedException" />
</xs:schema>

```

### 6.2.2.7 <http://schemas.datacontract.org/2004/07/System.ServiceModel>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="CommunicationException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:SystemException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CommunicationException" nillable="true" type="tns:CommunicationException"
/>
</xs:schema>

```

### 6.2.2.8 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"
/>
    </xs:sequence>
  </xs:complexType>
  <xs:attribute ref="ser:FactoryType" />
</xs:schema>

```

## 6.3 Health Provider Service WSDL

### 6.3.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wswa="http://www.w3.org/2006/05/addressing/wsdl"

```

```

xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="AlertMgmtandSynchProviderService"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  <wsp:Policy wsu:Id="CustomBinding_IAlertManagementProviderService_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
          <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
            <wsp:Policy>
              <sp:TransportToken>
                <wsp:Policy>
                  <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                    <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                  </msf:WindowsTransportSecurity>
                </wsp:Policy>
              </sp:TransportToken>
              <sp:AlgorithmSuite>
                <wsp:Policy>
                  <sp:Basic256 />
                </wsp:Policy>
              </sp:AlgorithmSuite>
              <sp:Layout>
                <wsp:Policy>
                  <sp:Strict />
                </wsp:Policy>
              </sp:Layout>
            </wsp:Policy>
          </sp:TransportBinding>
          <wsaw:UsingAddressing />
        </wsp>All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  <wsp:Policy wsu:Id="CustomBinding_IAlertSynchProviderService_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
          <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
            <wsp:Policy>
              <sp:TransportToken>
                <wsp:Policy>
                  <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                    <msf:RequireClientCertificate />
                  </msf:SslTransportSecurity>
                </wsp:Policy>
              </sp:TransportToken>
              <sp:AlgorithmSuite>
                <wsp:Policy>
                  <sp:Basic256 />
                </wsp:Policy>
              </sp:AlgorithmSuite>
              <sp:Layout>
                <wsp:Policy>
                  <sp:Strict />
                </wsp:Policy>
              </sp:Layout>
            </wsp:Policy>
          </sp:TransportBinding>
          <wsaw:UsingAddressing />
        </wsp>All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  <wsdl:types>
    <xsd:schema targetNamespace="http://tempuri.org/Imports">
      <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    </xsd:schema>
  </wsdl:types>

```

```

        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework.Service" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.Engine" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
        <xsd:import schemaLocation="" namespace="http://schemas.microsoft.com/Message" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework.Commands" />
    </xsd:schema>
</wsdl:types>
<wsdl:message name="IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllNetworkAlerts" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllNetworkAlertsResponse" />
</wsdl:message>
<wsdl:message
name="IAlertManagementProviderService_GetAllNetworkAlerts_SecurityAccessDeniedExceptionFault_
FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q1:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message
name="IAlertManagementProviderService_GetAllNetworkAlerts_StringFault_FaultMessage">
    <wsdl:part xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/" name="detail"
element="q2:string" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_ClearAlertOneWay_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearAlertOneWay" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_ClearAlert_InputMessage">
    <wsdl:part name="parameters" element="tns:ClearAlert" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_ClearAlert_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearAlertResponse" />
</wsdl:message>
<wsdl:message
name="IAlertManagementProviderService_ClearAlert_SecurityAccessDeniedExceptionFault_FaultMess
age">
    <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q3:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_ClearAlert_StringFault_FaultMessage">
    <wsdl:part xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/" name="detail"
element="q4:string" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_SuppressAlertOneWay_InputMessage">
    <wsdl:part name="parameters" element="tns:SuppressAlertOneWay" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService_SuppressAlert_InputMessage">
    <wsdl:part name="parameters" element="tns:SuppressAlert" />
</wsdl:message>

```

```

    <wsdl:message name="IAlertManagementProviderService SuppressAlert OutputMessage">
      <wsdl:part name="parameters" element="tns:SuppressAlertResponse" />
    </wsdl:message>
  </wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_SuppressAlert_SecurityAccessDeniedExceptionFault_FaultM
essage">
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q5:SecurityAccessDeniedException" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_SuppressAlert_StringFault_FaultMessage">
    <wsdl:part xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/" name="detail"
element="q6:string" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService RaiseAlertOneWay_InputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertOneWay" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService RaiseAlert InputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlert" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService RaiseAlert_OutputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertResponse" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_RaiseAlert_SecurityAccessDeniedExceptionFault_FaultMess
age">
    <wsdl:part
xmlns:q7="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" name="detail"
element="q7:SecurityAccessDeniedException" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_RaiseAlert_StringFault_FaultMessage">
    <wsdl:part xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/" name="detail"
element="q8:string" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService IsAuthorized InputMessage">
    <wsdl:part name="parameters" element="tns:IsAuthorized" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_IsAuthorized_OutputMessage">
    <wsdl:part name="parameters" element="tns:IsAuthorizedResponse" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_RaiseAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertCompleted" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_ClearAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ClearAlertCompleted" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_SuppressAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:SuppressAlertCompleted" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_RepairAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RepairAlertCompleted" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService EvaluateAlertsCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:EvaluateAlertsCompleted" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_RaisedAlerts_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RaisedAlerts" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertManagementProviderService ClearedAlerts_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ClearedAlerts" />
  </wsdl:part>
</wsdl:message>
  <wsdl:message name="IAlertSynchProviderService_RegisterClientAgent_InputMessage">
    <wsdl:part name="parameters" element="tns:RegisterClientAgent" />
  </wsdl:part>
</wsdl:message>

```

```

</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_RegisterClientAgent_OutputMessage">
  <wsdl:part name="parameters" element="tns:RegisterClientAgentResponse" />
</wsdl:message>
<wsdl:message
name="IAlertSynchProviderService_RegisterClientAgent_ArgumentNullExceptionFault_FaultMessage"
>
  <wsdl:part xmlns:q9="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q9:ArgumentNullException" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_SynchronizeAlerts_InputMessage">
  <wsdl:part name="parameters" element="tns:SynchronizeAlerts" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueue" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueueResponse" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_GetPlugInInformation_InputMessage">
  <wsdl:part name="parameters" element="tns:GetPlugInInformation" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_GetPlugInInformation_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPlugInInformationResponse" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_DownloadDefinition_InputMessage">
  <wsdl:part name="parameters" element="tns:DownloadDefinition" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_DownloadDefinition_OutputMessage">
  <wsdl:part name="parameters" element="tns:DownloadDefinitionResponse" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_DownloadConfiguration_InputMessage">
  <wsdl:part name="parameters" element="tns:DownloadConfiguration" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_DownloadConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:DownloadConfigurationResponse" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService_AlertChanged_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:AlertChanged" />
</wsdl:message>
<wsdl:portType name="IAlertManagementProviderService">
  <wsdl:operation name="GetAllNetworkAlerts">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlerts"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsResponse"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsSecurityAc
cessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_SecurityAccessDeniedExceptio
nFault_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsStringFaul
t" name="StringFault"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_StringFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearAlertOneWay">
      <wsdl:input
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertOneWay"
message="tns:IAlertManagementProviderService_ClearAlertOneWay_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="ClearAlert">
        <wsdl:input wsaw:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlert"
message="tns:IAlertManagementProviderService_ClearAlert_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertResponse"
message="tns:IAlertManagementProviderService_ClearAlert_OutputMessage" />

```

```

    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAAlertManagementProviderService_ClearAlert_SecurityAccessDeniedExceptionFault_Fa
ultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertStringFault"
name="StringFault"
message="tns:IAAlertManagementProviderService_ClearAlert_StringFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="SuppressAlertOneWay">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertOneWay"
message="tns:IAAlertManagementProviderService_SuppressAlertOneWay_InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SuppressAlert">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlert"
message="tns:IAAlertManagementProviderService SuppressAlert InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertResponse"
message="tns:IAAlertManagementProviderService_SuppressAlert_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertSecurityAccessDe
niedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAAlertManagementProviderService_SuppressAlert_SecurityAccessDeniedExceptionFault
_FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertStringFault"
name="StringFault"
message="tns:IAAlertManagementProviderService SuppressAlert StringFault FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RaiseAlertOneWay">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertOneWay"
message="tns:IAAlertManagementProviderService RaiseAlertOneWay InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="RaiseAlert">
    <wsdl:input wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlert"
message="tns:IAAlertManagementProviderService RaiseAlert InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertResponse"
message="tns:IAAlertManagementProviderService_RaiseAlert_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAAlertManagementProviderService_RaiseAlert_SecurityAccessDeniedExceptionFault_Fa
ultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertStringFault"
name="StringFault"
message="tns:IAAlertManagementProviderService RaiseAlert StringFault FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="IsAuthorized">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/IsAuthorized"
message="tns:IAAlertManagementProviderService IsAuthorized InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/IsAuthorizedResponse"
message="tns:IAAlertManagementProviderService_IsAuthorized_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="RaiseAlertCompleted">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertCompleted"
message="tns:IAAlertManagementProviderService RaiseAlertCompleted OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearAlertCompleted">

```

```

    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertCompleted"
message="tns:IAAlertManagementProviderService_ClearAlertCompleted_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="SuppressAlertCompleted">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertCompleted"
message="tns:IAAlertManagementProviderService_SuppressAlertCompleted_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="RepairAlertCompleted">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RepairAlertCompleted"
message="tns:IAAlertManagementProviderService_RepairAlertCompleted_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="EvaluateAlertsCompleted">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/EvaluateAlertsCompleted"
message="tns:IAAlertManagementProviderService_EvaluateAlertsCompleted_OutputCallbackMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RaisedAlerts">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/RaisedAlerts"
message="tns:IAAlertManagementProviderService_RaisedAlerts_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearedAlerts">
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearedAlerts"
message="tns:IAAlertManagementProviderService_ClearedAlerts_OutputCallbackMessage" />
    </wsdl:operation>
    </wsdl:portType>
    <wsdl:portType name="IAAlertSynchProviderService">
    <wsdl:operation name="RegisterClientAgent">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgent"
message="tns:IAAlertSynchProviderService_RegisterClientAgent_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgentResponse"
message="tns:IAAlertSynchProviderService_RegisterClientAgent_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgentArgumentNullExc
eptionFault" name="ArgumentNullExceptionFault"
message="tns:IAAlertSynchProviderService_RegisterClientAgent_ArgumentNullExceptionFault_FaultM
essage" />
    </wsdl:operation>
    <wsdl:operation name="SynchronizeAlerts">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/SynchronizeAlerts"
message="tns:IAAlertSynchProviderService_SynchronizeAlerts_InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearCallbackCommandQueue">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueue"
message="tns:IAAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueueResponse"
message="tns:IAAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPlugInInformation">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformation"
message="tns:IAAlertSynchProviderService_GetPlugInInformation_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformationResponse"
message="tns:IAAlertSynchProviderService_GetPlugInInformation_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="DownloadDefinition">

```



```

    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/DownloadDefinition"
message="tns:IAAlertSynchProviderService_DownloadDefinition_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/DownloadDefinitionResponse"
message="tns:IAAlertSynchProviderService_DownloadDefinition_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="DownloadConfiguration">
    <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/DownloadConfiguration"
message="tns:IAAlertSynchProviderService_DownloadConfiguration_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/DownloadConfigurationResponse"
message="tns:IAAlertSynchProviderService_DownloadConfiguration_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="AlertChanged">
    <wsdl:output wsaw:Action="http://tempuri.org/IAAlertSynchProviderService/AlertChanged"
message="tns:IAAlertSynchProviderService_AlertChanged_OutputCallbackMessage" />
    </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_IAAlertManagementProviderService"
type="tns:IAAlertManagementProviderService">
    <wsp:PolicyReference URI="#CustomBinding_IAAlertManagementProviderService_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="GetAllNetworkAlerts">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/GetAllNetworkAlerts"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="StringFault">
    <soap12:fault use="literal" name="StringFault" namespace="" />
    </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ClearAlertOneWay">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/ClearAlertOneWay"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="ClearAlert">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/ClearAlert" style="document"
/>
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
    <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="StringFault">
    <soap12:fault use="literal" name="StringFault" namespace="" />
    </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SuppressAlertOneWay">

```

```

    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertOneWay"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="SuppressAlert">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/SuppressAlert"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="StringFault">
        <soap12:fault use="literal" name="StringFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RaiseAlertOneWay">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertOneWay"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="RaiseAlert">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/RaiseAlert" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
    <wsdl:fault name="StringFault">
        <soap12:fault use="literal" name="StringFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="IsAuthorized">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/IsAuthorized" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RaiseAlertCompleted">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/RaiseAlertCompleted"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ClearAlertCompleted">

```

```

    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/ClearAlertCompleted"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SuppressAlertCompleted">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertCompleted"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RepairAlertCompleted">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/RepairAlertCompleted"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="EvaluateAlertsCompleted">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/EvaluateAlertsCompleted"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RaisedAlerts">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/RaisedAlerts" style="document"
/>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ClearedAlerts">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertManagementProviderService/ClearedAlerts"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CustomBinding_IAAlertSynchProviderService"
type="tns:IAAlertSynchProviderService">
    <wsp:PolicyReference URI="#CustomBinding_IAAlertSynchProviderService_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="RegisterClientAgent">
        <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/RegisterClientAgent"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentNullExceptionFault">
            <soap12:fault use="literal" name="ArgumentNullExceptionFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
</wsdl:operation name="SynchronizeAlerts">

```

```

    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/SynchronizeAlerts" style="document"
/>
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
  </wsdl:operation>
  <wsdl:operation name="ClearCallbackCommandQueue">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueue"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetPlugInInformation">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformation"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="DownloadDefinition">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/DownloadDefinition"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="DownloadConfiguration">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/DownloadConfiguration"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="AlertChanged">
    <soap12:operation
soapAction="http://tempuri.org/IAAlertSynchProviderService/AlertChanged" style="document" />
    <wsdl:output>
    <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:service name="AlertMgmtandSynchProviderService">
  <wsdl:port name="CustomBinding_IAAlertManagementProviderService"
binding="tns:CustomBinding_IAAlertManagementProviderService">
    <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_alert_mgmt_and_sync
/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service.IAAlertManagementProvid
erService" />
    <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_alert_mgmt_and

```

```

_sync/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service.IAlertManagementP
roviderService</wsa10:Address>
  <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
    <Spn>host/serverName.domain</Spn>
  </Identity>
</wsa10:EndpointReference>
</wsdl:port>
<wsdl:port name="CustomBinding_IAlertSynchProviderService"
binding="tns:CustomBinding_IAlertSynchProviderService">
  <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_alert_mgmt_and_sync
/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service.IAlertSynchProviderSer
vice" />
  <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg alert mgmt and
_sync/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service.IAlertSynchProvid
erService</wsa10:Address>
  <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
    <Dns>SERVERNAME</Dns>
  </Identity>
  </wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 6.3.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework.Service" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.Engine" />
  <xs:import schemaLocation="" namespace="http://schemas.microsoft.com/Message" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="GetAllNetworkAlerts">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetAllNetworkAlertsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework.Service" minOccurs="0" name="GetAllNetworkAlertsResult" nillable="true"
type="q1:AlertListChunk" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ClearAlertOneWay">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ClearAlert">
    <xs:complexType>
      <xs:sequence>

```

```

        <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ClearAlertResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="SuppressAlertOneWay">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="value" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SuppressAlert">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="value" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SuppressAlertResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="RaiseAlertOneWay">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" minOccurs="0" name="alertInfo" nillable="true" type="q2:AlertInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RaiseAlert">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" minOccurs="0" name="alertInfo" nillable="true" type="q3:AlertInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RaiseAlertResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" minOccurs="0" name="RaiseAlertResult" nillable="true" type="q4:AlertInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsAuthorized">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="IsAuthorizedResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsAuthorizedResult" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>

```

```

</xs:element>
<xs:element name="RaiseAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" minOccurs="0" name="alertInfo" nillable="true" type="q5:AlertInfo" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SuppressAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RepairAlertCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="alertKey" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="EvaluateAlertsCompleted">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ignoreSchedule" type="xs:boolean" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RaisedAlerts">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" minOccurs="0" name="alertInfoList" nillable="true"
type="q6:ArrayOfAlertInfo" />
      <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" minOccurs="0" name="task" type="q7:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearedAlerts">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" minOccurs="0" name="alertInfoList" nillable="true"
type="q8:ArrayOfAlertInfo" />
      <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" minOccurs="0" name="task" type="q9:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RegisterClientAgent">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RegisterClientAgentResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="SynchronizeAlerts">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework" minOccurs="0" name="alerts" nillable="true" type="q10:ArrayOfAlertInfo"
/>
          <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="Task">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="ClearCallbackCommandQueue">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="networkMachineId" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ClearCallbackCommandQueueResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetPlugInInformation">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetPlugInInformationResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.Engine" minOccurs="0" name="GetPlugInInformationResult" nillable="true"
type="q12:ArrayOfPlugInInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DownloadDefinition">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="featureName" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="DownloadDefinitionResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q13="http://schemas.microsoft.com/Message"
name="DownloadDefinitionResult" type="q13:StreamBody" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>

```



```

    </xs:complexType>
  </xs:element>
  <xs:element name="DownloadConfiguration">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="featureName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DownloadConfigurationResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q14="http://schemas.microsoft.com/Message"
name="DownloadConfigurationResult" type="q14:StreamBody" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AlertChanged">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="commands" nillable="true" type="q15:ArrayOfanyType" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

### 6.3.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Commands>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Commands" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Commands" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" />
  <xs:complexType name="ClearCommand">
    <xs:sequence>
      <xs:element minOccurs="0" name="AlertDateAndTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="AlertInstanceId" type="ser:guid" />
      <xs:element minOccurs="0" name="MachineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ClearCommand" nillable="true" type="tns:ClearCommand" />
  <xs:complexType name="SuppressCommand">
    <xs:sequence>
      <xs:element minOccurs="0" name="AlertDateAndTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="AlertInstanceId" type="ser:guid" />
      <xs:element minOccurs="0" name="MachineId" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Suppress" type="xs:boolean" />
      <xs:element minOccurs="0" name="SuppressTime" type="xs:dateTime" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SuppressCommand" nillable="true" type="tns:SuppressCommand" />
  <xs:complexType name="RaiseCommand">
    <xs:sequence>
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" minOccurs="0" name="RaisedAlert" nillable="true" type="q1:AlertInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="RaiseCommand" nillable="true" type="tns:RaiseCommand" />

```

```
</xs:schema>
```

### 6.3.4 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework.Service" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" />
  <xs:complexType name="AlertListChunk">
    <xs:sequence>
      <xs:element
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" minOccurs="0" name="Alerts" nillable="true" type="q1:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="HasMore" type="xs:boolean" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="AlertListChunk" nillable="true" type="tns:AlertListChunk" />
</xs:schema>
```

### 6.3.5 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine" />
  <xs:complexType name="ArrayOfAlertInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AlertInfo" nillable="true" type="tns:AlertInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAlertInfo" nillable="true" type="tns:ArrayOfAlertInfo" />
  <xs:complexType name="AlertInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="ActionPerformed" nillable="true" type="xs:string" />
      <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="AdditionalInfo" nillable="true" type="q1:ArrayOfstring" />
      <xs:element minOccurs="0" name="DateAndTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Escalate" type="xs:boolean" />
      <xs:element minOccurs="0" name="FeatureName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="FeatureTitle" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="HealthDefinitionName" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element minOccurs="0" name="HealthDefinitionTitle" nillable="true" type="xs:string" />
  <xs:element minOccurs="0" name="InstanceId" type="ser:guid" />
  <xs:element minOccurs="0" name="IsNew" type="xs:boolean" />
</xs:schema>
```

```

    <xs:element minOccurs="0" name="IsRepairDefined" type="xs:boolean" />
    <xs:element minOccurs="0" name="IsSuppressed" type="xs:boolean" />
    <xs:element minOccurs="0" name="IsSystem" type="xs:boolean" />
    <xs:element minOccurs="0" name="LastSuppressedDateTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="MachineId" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="MachineName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="RepairActionPerformed" nillable="true" type="xs:string"
  />
  <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine" minOccurs="0" name="Severity" type="q2:HealthStatus" />
    <xs:element minOccurs="0" name="SupportLink" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="TroubleshootSteps" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Troubleshooter" nillable="true"
type="tns:UserContextTask" />
  </xs:sequence>
</xs:complexType>
<xs:element name="AlertInfo" nillable="true" type="tns:AlertInfo" />
<xs:complexType name="UserContextTask">
  <xs:sequence>
    <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Program" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="UserContextTask" nillable="true" type="tns:UserContextTask" />
<xs:simpleType name="TaskType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Raise" />
    <xs:enumeration value="Evaluate" />
    <xs:enumeration value="Clear" />
    <xs:enumeration value="Update" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="TaskType" nillable="true" type="tns:TaskType" />
</xs:schema>

```

### 6.3.6 http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.Engine" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="HealthStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="OK" />
      <xs:enumeration value="Information" />
      <xs:enumeration value="Warning" />
      <xs:enumeration value="Critical" />
      <xs:enumeration value="Report" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="HealthStatus" nillable="true" type="tns:HealthStatus" />
  <xs:complexType name="ArrayOfPlugInInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="PlugInInfo" nillable="true"
type="tns:PlugInInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfPlugInInfo" nillable="true" type="tns:ArrayOfPlugInInfo" />
  <xs:complexType name="PlugInInfo">
    <xs:sequence>
      <xs:element name="_x003C_ConfigHashCode_x003E_k__BackingField" nillable="true"
type="xs:base64Binary" />

```

```

        <xs:element name=" x003C DefinitionHashCode x003E k BackingField" nillable="true"
type="xs:base64Binary" />
        <xs:element name="_x003C_FeatureName_x003E_k__BackingField" nillable="true"
type="xs:string" />
        <xs:element name="_x003C_RelativePath_x003E_k__BackingField" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="PlugInInfo" nillable="true" type="tns:PlugInInfo" />
</xs:schema>

```

### 6.3.7 http://schemas.microsoft.com/2003/10/Serialization/Arrays

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="ArrayOfstring">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
    <xs:complexType name="ArrayOfanyType">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"
type="xs:anyType" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfanyType" nillable="true" type="tns:ArrayOfanyType" />
</xs:schema>

```

### 6.3.8 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />
    <xs:element name="int" nillable="true" type="xs:int" />
    <xs:element name="long" nillable="true" type="xs:long" />
    <xs:element name="QName" nillable="true" type="xs:QName" />
    <xs:element name="short" nillable="true" type="xs:short" />
    <xs:element name="string" nillable="true" type="xs:string" />
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
    <xs:element name="char" nillable="true" type="tns:char" />
    <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns:duration" />
    <xs:simpleType name="duration">

```

```

    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.3.9 http://schemas.microsoft.com/Message

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/Message" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/Message"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="StreamBody">
    <xs:restriction base="xs:base64Binary" />
  </xs:simpleType>
</xs:schema>

```

### 6.3.10 http://schemas.datacontract.org/2004/07/System.ServiceModel.Security

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
  <xs:complexType name="SecurityAccessDeniedException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:ql="http://schemas.datacontract.org/2004/07/System.ServiceModel"
base="ql:CommunicationException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SecurityAccessDeniedException" nillable="true"
type="tns:SecurityAccessDeniedException" />
</xs:schema>

```

### 6.3.11 http://schemas.datacontract.org/2004/07/System.ServiceModel

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="CommunicationException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:ql="http://schemas.datacontract.org/2004/07/System"
base="ql:SystemException" />
    </xs:complexContent>
  </xs:complexType>

```

```

    <xs:element name="CommunicationException" nillable="true" type="tns:CommunicationException"
  />

</xs:schema>

```

### 6.3.12 http://schemas.datacontract.org/2004/07/System

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"
    />
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="tns:Exception" />
  <xs:complexType name="ArgumentNullException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:ArgumentException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArgumentNullException" nillable="true" type="tns:ArgumentNullException"
  />
  <xs:complexType name="ArgumentException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:SystemException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArgumentException" nillable="true" type="tns:ArgumentException" />
</xs:schema>

```

## 6.4 Machine Identity Provider Service WSDL

### 6.4.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
  xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
  xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
  open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="MachineIdentityProvider"
  targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IMachineIdentityProvider_policy">
    <wsp:ExactlyOne>

```

```

    <wsp:All>
      <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
      <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                <msf:RequireClientCertificate />
              </msf:SslTransportSecurity>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256 />
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict />
            </wsp:Policy>
          </sp:Layout>
        </wsp:Policy>
      </sp:TransportBinding>
      <wsaw:UsingAddressing />
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.I
dentity" />
  </xsd:schema>
</wsdl:types>
<wsdl:message name="IMachineIdentityProvider RenewCert InputMessage">
  <wsdl:part name="parameters" element="tns:RenewCert" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider RevokeCert InputMessage">
  <wsdl:part name="parameters" element="tns:RevokeCert" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider GenerateCertResponse InputMessage">
  <wsdl:part name="parameters" element="tns:GenerateCertResponse" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider GenerateSid InputMessage">
  <wsdl:part name="parameters" element="tns:GenerateSid" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider GetMachineStatus InputMessage">
  <wsdl:part name="parameters" element="tns:GetMachineStatus" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider MakeUserRemoteDesktopMapping_InputMessage">
  <wsdl:part name="parameters" element="tns:MakeUserRemoteDesktopMapping" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider ReturnNewCertResponse_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnNewCertResponse" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider ReturnRenewCert_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnRenewCert" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider ReturnSid_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnSid" />
</wsdl:message>
<wsdl:message name="IMachineIdentityProvider ReturnRevokeCert_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ReturnRevokeCert" />
</wsdl:message>

```

```

    <wsdl:message name="IMachineIdentityProvider_ReturnGetMachineStatus_OutputCallbackMessage">
      <wsdl:part name="parameters" element="tns:ReturnGetMachineStatus" />
    </wsdl:message>
    <wsdl:message
name="IMachineIdentityProvider_ReturnMakeUserRemoteDesktopMapping_OutputCallbackMessage">
      <wsdl:part name="parameters" element="tns:ReturnMakeUserRemoteDesktopMapping" />
    </wsdl:message>
    <wsdl:portType name="IMachineIdentityProvider">
      <wsdl:operation name="RenewCert">
        <wsdl:input wsaw:Action="http://tempuri.org/IMachineIdentityProvider/RenewCert"
message="tns:IMachineIdentityProvider_RenewCert_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="RevokeCert">
        <wsdl:input wsaw:Action="http://tempuri.org/IMachineIdentityProvider/RevokeCert"
message="tns:IMachineIdentityProvider_RevokeCert_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GenerateCertResponse">
        <wsdl:input
wsaw:Action="http://tempuri.org/IMachineIdentityProvider/GenerateCertResponse"
message="tns:IMachineIdentityProvider_GenerateCertResponse_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GenerateSid">
        <wsdl:input wsaw:Action="http://tempuri.org/IMachineIdentityProvider/GenerateSid"
message="tns:IMachineIdentityProvider_GenerateSid_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetMachineStatus">
        <wsdl:input wsaw:Action="http://tempuri.org/IMachineIdentityProvider/GetMachineStatus"
message="tns:IMachineIdentityProvider_GetMachineStatus_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="MakeUserRemoteDesktopMapping">
        <wsdl:input
wsaw:Action="http://tempuri.org/IMachineIdentityProvider/MakeUserRemoteDesktopMapping"
message="tns:IMachineIdentityProvider_MakeUserRemoteDesktopMapping_InputMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnNewCertResponse">
        <wsdl:output
wsaw:Action="http://tempuri.org/IMachineIdentityProvider/ReturnNewCertResponse"
message="tns:IMachineIdentityProvider_ReturnNewCertResponse_OutputCallbackMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnRenewCert">
        <wsdl:output wsaw:Action="http://tempuri.org/IMachineIdentityProvider/ReturnRenewCert"
message="tns:IMachineIdentityProvider_ReturnRenewCert_OutputCallbackMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnSid">
        <wsdl:output wsaw:Action="http://tempuri.org/IMachineIdentityProvider/Returnsid"
message="tns:IMachineIdentityProvider_ReturnSid_OutputCallbackMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnRevokeCert">
        <wsdl:output wsaw:Action="http://tempuri.org/IMachineIdentityProvider/ReturnRevokeCert"
message="tns:IMachineIdentityProvider_ReturnRevokeCert_OutputCallbackMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnGetMachineStatus">
        <wsdl:output
wsaw:Action="http://tempuri.org/IMachineIdentityProvider/ReturnGetMachineStatus"
message="tns:IMachineIdentityProvider_ReturnGetMachineStatus_OutputCallbackMessage" />
      </wsdl:operation>
      <wsdl:operation name="ReturnMakeUserRemoteDesktopMapping">
        <wsdl:output
wsaw:Action="http://tempuri.org/IMachineIdentityProvider/ReturnMakeUserRemoteDesktopMapping"
message="tns:IMachineIdentityProvider_ReturnMakeUserRemoteDesktopMapping_OutputCallbackMessag
e" />
      </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_IMachineIdentityProvider"
type="tns:IMachineIdentityProvider">
      <wsp:PolicyReference URI="#CustomBinding_IMachineIdentityProvider_policy" />
      <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
      <wsdl:operation name="RenewCert">

```



```

        <soap12:operation soapAction="http://tempuri.org/IMachineIdentityProvider/RenewCert"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="RevokeCert">
        <soap12:operation soapAction="http://tempuri.org/IMachineIdentityProvider/RevokeCert"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="GenerateCertResponse">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/GenerateCertResponse"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="GenerateSid">
        <soap12:operation soapAction="http://tempuri.org/IMachineIdentityProvider/GenerateSid"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="GetMachineStatus">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/GetMachineStatus" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="MakeUserRemoteDesktopMapping">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/MakeUserRemoteDesktopMapping"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="ReturnNewCertResponse">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnNewCertResponse"
style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ReturnRenewCert">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnRenewCert" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ReturnSid">
        <soap12:operation soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnSid"
style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ReturnRevokeCert">
        <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnRevokeCert" style="document" />
        <wsdl:output>

```

```

        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ReturnGetMachineStatus">
    <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnGetMachineStatus"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ReturnMakeUserRemoteDesktopMapping">
    <soap12:operation
soapAction="http://tempuri.org/IMachineIdentityProvider/ReturnMakeUserRemoteDesktopMapping"
style="document" />
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="MachineIdentityProvider">
    <wsdl:port name="CustomBinding_IMachineIdentityProvider"
binding="tns:CustomBinding_IMachineIdentityProvider">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.MachineIdentityProvider/
Microsoft.WindowsServerSolutions.Devices.Identity.IMachineIdentityProvider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.MachineIdentityProv
ider/Microsoft.WindowsServerSolutions.Devices.Identity.IMachineIdentityProvider</wsa10:Adres
s>
        <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
            <Dns>SERVERNAME</Dns>
        </Identity>
    </wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

## 6.4.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.I
dentity" />
    <xs:element name="RenewCert">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="strCSR" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="RevokeCert">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GenerateCertResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="strCSR" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="machineName" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="GenerateSid">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="machineName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="bForce" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetMachineStatus">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="machineName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MakeUserRemoteDesktopMapping">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="username" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnNewCertResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="newCert" nillable="true" type="xs:string" />
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" minOccurs="0" name="returnCode" nillable="true" type="q1:ReturnClass" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnRenewCert">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="newCert" nillable="true" type="xs:string" />
        <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" minOccurs="0" name="returnCode" nillable="true" type="q2:ReturnClass" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnSid">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="sid" nillable="true" type="xs:string" />
        <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" minOccurs="0" name="returnCode" nillable="true" type="q3:ReturnClass" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnRevokeCert">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" minOccurs="0" name="returnCode" nillable="true" type="q4:ReturnClass" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnGetMachineStatus">
    <xs:complexType>

```

```

    <xs:sequence>
      <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" minOccurs="0" name="status" nillable="true" type="q5:GetMachineStatusType" />
      <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" minOccurs="0" name="returnCode" nillable="true" type="q6:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ReturnMakeUserRemoteDesktopMapping">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" minOccurs="0" name="returnCode" nillable="true" type="q7:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>

```

### 6.4.3 http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Identity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ReturnClass">
    <xs:sequence>
      <xs:element minOccurs="0" name="ErrorCatalog" type="tns:ErrorCatalogType" />
      <xs:element minOccurs="0" name="NativeError" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReturnClass" nillable="true" type="tns:ReturnClass" />
  <xs:simpleType name="ErrorCatalogType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Succeeded" />
      <xs:enumeration value="MachineExists" />
      <xs:enumeration value="NetworkError" />
      <xs:enumeration value="CAError" />
      <xs:enumeration value="InvalidUser" />
      <xs:enumeration value="InvalidOwnerOfMachine" />
      <xs:enumeration value="InvaildCert" />
      <xs:enumeration value="ProviderNotAvailable" />
      <xs:enumeration value="AccessDenied" />
      <xs:enumeration value="TooManyComputers" />
      <xs:enumeration value="OtherError" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ErrorCatalogType" nillable="true" type="tns:ErrorCatalogType" />
  <xs:complexType name="GetMachineStatusType">
    <xs:sequence>
      <xs:element minOccurs="0" name="CurrentClientComputer" type="xs:int" />
      <xs:element minOccurs="0" name="MachineStatus" type="tns:MachineStatus" />
      <xs:element minOccurs="0" name="MaxClientComputer" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="GetMachineStatusType" nillable="true" type="tns:GetMachineStatusType" />
  <xs:simpleType name="MachineStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Active" />
      <xs:enumeration value="Deactive" />
      <xs:enumeration value="ActiveWithCert" />
      <xs:enumeration value="DeactiveWithCert" />
    </xs:restriction>
  </xs:simpleType>

```

```

    <xs:enumeration value="NotExists" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="MachineStatus" nillable="true" type="tns:MachineStatus" />
</xs:schema>

```

## 6.4.4 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
  attributeFormDefault="qualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

## 6.5 User Identity Provider Service WSDL

### 6.5.1 IUserLogonProvider

#### 6.5.1.1 wsdl1

```

<?xml version="1.0" encoding="utf-8"?>

```

```

<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:i0="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2
010" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="UserLogonProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IUserLogonProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy" />
                </wsp:Policy>
              </sp:TransportToken>
              <sp:AlgorithmSuite>
                <wsp:Policy>
                  <sp:Basic256 />
                </wsp:Policy>
              </sp:AlgorithmSuite>
              <sp:Layout>
                <wsp:Policy>
                  <sp:Strict />
                </wsp:Policy>
              </sp:Layout>
            </wsp:Policy>
          </sp:TransportBinding>
          <wsaw:UsingAddressing />
        </wsp>All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  <wsdl:import
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" location="" />
  <wsdl:types />
  <wsdl:binding name="CustomBinding_IUserLogonProvider" type="i0:IUserLogonProvider">
    <wsp:PolicyReference URI="#CustomBinding_IUserLogonProvider_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="LogonUser">
      <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserLogonProvider/LogonUser" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="UserFaultFault">
        <soap12:fault use="literal" name="UserFaultFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="UserExceptionFault">
        <soap12:fault use="literal" name="UserExceptionFault" namespace="" />
      </wsdl:fault>
      <wsdl:fault name="UserExceptionFaultFault">
        <soap12:fault use="literal" name="UserExceptionFaultFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>

```

```

    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="UserLogonProvider">
    <wsdl:port name="CustomBinding_IUserLogonProvider"
binding="tns:CustomBinding_IUserLogonProvider">
      <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_user_logon/Microsof
t.WindowsServerSolutions.Users.IUserLogonProvider" />
      <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg user_logon/Mic
rosoft.WindowsServerSolutions.Users.IUserLogonProvider</wsa10:Address>
      <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
        <Dns>SERVERNAME</Dns>
      </Identity>
    </wsa10:EndpointReference>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 6.5.1.2 wsdl2

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing"
xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xsd:schema
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010/Imports">
      <xsd:import schemaLocation=""
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="IUserLogonProvider_LogonUser_InputMessage">
    <wsdl:part name="parameters" element="tns:LogonUser" />
  </wsdl:message>
  <wsdl:message name="IUserLogonProvider_LogonUser_OutputMessage">
    <wsdl:part name="parameters" element="tns:LogonUserResponse" />
  </wsdl:message>
  <wsdl:message name="IUserLogonProvider_LogonUser_UserFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q1:UserFault" />
  </wsdl:part>
  </wsdl:message>
  <wsdl:message name="IUserLogonProvider_LogonUser_UserExceptionFault_FaultMessage">

```

```

    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q2:UserException" />
  </wsdl:message>
  <wsdl:message name="IUserLogonProvider_LogonUser_UserExceptionFaultFault_FaultMessage">
    <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q3:UserExceptionFault" />
    </wsdl:message>
    <wsdl:portType name="IUserLogonProvider">
      <wsdl:operation name="LogonUser">
        <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUser" message="tns:IUserLogonProvider_LogonUser_InputMessage"
/>
          <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserResponse"
message="tns:IUserLogonProvider_LogonUser_OutputMessage" />
            <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserFaultFault" name="UserFaultFault"
message="tns:IUserLogonProvider_LogonUser_UserFaultFault_FaultMessage" />
              <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserExceptionFault" name="UserExceptionFault"
message="tns:IUserLogonProvider_LogonUser_UserExceptionFault_FaultMessage" />
                <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserExceptionFaultFault" name="UserExceptionFaultFault"
message="tns:IUserLogonProvider_LogonUser_UserExceptionFaultFault_FaultMessage" />
            </wsdl:operation>
          </wsdl:portType>
        </wsdl:definitions>

```

### 6.5.1.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation="" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="UserInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="FullName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="PersonalInfo" nillable="true" type="tns:PersonalInfo"
/>
      <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="UserStatus" type="tns:UserStatus" />
      <xs:element minOccurs="0" name="Warning" type="tns:UserCustomExceptionCode" />
      <xs:element minOccurs="0" name="WindowsAccount" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="WindowsSID" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="UserInfo" nillable="true" type="tns:UserInfo" />
  <xs:complexType name="PersonalInfo">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:UserGroupCommonInfoContract">
        <xs:sequence>

```



```

        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ContainerGroups" nillable="true" type="q1:ArrayOfguid" />
        <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="FirstName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Guid" type="ser:guid" />
        <xs:element minOccurs="0" name="IsBuiltIn" type="xs:boolean" />
        <xs:element minOccurs="0" name="IsLocalUser" type="xs:boolean" />
        <xs:element minOccurs="0" name="IsShowInUI" type="xs:boolean" />
        <xs:element minOccurs="0" name="LastName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="NetworkAlertAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="UserFolder" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="PersonalInfo" nillable="true" type="tns:PersonalInfo" />
<xs:complexType name="UserGroupCommonInfoContract">
    <xs:sequence>
        <xs:element minOccurs="0" name="AccessLevel" type="tns:AccessLevelType" />
        <xs:element minOccurs="0" name="ComputerAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="ComputerAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="DashboardAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="DashboardAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="HomePageLinksAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="HomePageLinksAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="MediaAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="MediaAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="RemoteAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="RemoteAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="ShareAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="ShareAccessInherited" type="xs:boolean" />
        <xs:element minOccurs="0" name="VpnAccess" type="tns:RemoteAccessType" />
        <xs:element minOccurs="0" name="VpnAccessInherited" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
<xs:element name="UserGroupCommonInfoContract" nillable="true"
type="tns:UserGroupCommonInfoContract" />
<xs:simpleType name="AccessLevelType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Unknown" />
        <xs:enumeration value="Guest" />
        <xs:enumeration value="User" />
        <xs:enumeration value="Administrator" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="AccessLevelType" nillable="true" type="tns:AccessLevelType" />
<xs:simpleType name="RemoteAccessType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Unknown" />
        <xs:enumeration value="Allowed" />
        <xs:enumeration value="NotAllowed" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="RemoteAccessType" nillable="true" type="tns:RemoteAccessType" />
<xs:simpleType name="UserStatus">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Disabled" />
        <xs:enumeration value="Enabled" />
        <xs:enumeration value="Error" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="UserStatus" nillable="true" type="tns:UserStatus" />
<xs:simpleType name="UserCustomExceptionCode">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Succeeded" />
        <xs:enumeration value="WinLogonFailed" />
        <xs:enumeration value="UserExists" />
        <xs:enumeration value="UserNotExist" />
        <xs:enumeration value="ProviderNotAvailable" />
    </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="AccessDenied" />
    <xs:enumeration value="TooManyUsers" />
    <xs:enumeration value="CreateUserSharedFolderFailed" />
    <xs:enumeration value="Failed" />
    <xs:enumeration value="ActiveDirectoryNotAvailable" />
    <xs:enumeration value="ModifySecurityGroupMembershipFailed" />
    <xs:enumeration value="CannotRevokeInheritedPermission" />
    <xs:enumeration value="GroupNotExist" />
    <xs:enumeration value="WeakPassword" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="UserCustomExceptionCode" nillable="true"
type="tns:UserCustomExceptionCode" />
<xs:complexType name="UserFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="ExceptionCode" type="xs:int" />
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UserCode" type="tns:UserCustomExceptionCode" />
  </xs:sequence>
</xs:complexType>
<xs:element name="UserFault" nillable="true" type="tns:UserFault" />
<xs:complexType name="UserException">
  <xs:complexContent mixed="false">
    <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System"
base="q2:Exception" />
  </xs:complexContent>
</xs:complexType>
<xs:element name="UserException" nillable="true" type="tns:UserException" />
<xs:complexType name="UserExceptionFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="ErrorCode" type="xs:int" />
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="UserErrorCode" type="tns:UserCustomExceptionCode" />
  </xs:sequence>
</xs:complexType>
<xs:element name="UserExceptionFault" nillable="true" type="tns:UserExceptionFault" />
</xs:schema>

```

#### 6.5.1.4 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
</xs:schema>

```

#### 6.5.1.5 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />

```

```

<xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
<xs:element name="boolean" nillable="true" type="xs:boolean" />
<xs:element name="byte" nillable="true" type="xs:byte" />
<xs:element name="dateTime" nillable="true" type="xs:dateTime" />
<xs:element name="decimal" nillable="true" type="xs:decimal" />
<xs:element name="double" nillable="true" type="xs:double" />
<xs:element name="float" nillable="true" type="xs:float" />
<xs:element name="int" nillable="true" type="xs:int" />
<xs:element name="long" nillable="true" type="xs:long" />
<xs:element name="QName" nillable="true" type="xs:QName" />
<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.5.1.6 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip"
    />
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="tns:Exception" />
</xs:schema>

```

### 6.5.1.7 <http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/

```

```

2010" elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users" />
  <xs:element name="LogonUser">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="bCleanSession" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="LogonUserResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
minOccurs="0" name="LogonUserResult" nillable="true" type="q1:UserInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

## 6.5.2 IUserChangePasswordProvider

### 6.5.2.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:i0="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2
010" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="UserChangePasswordProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IUserChangePasswordProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </wsp:Policy>

```

```

        </wsp:Policy>
    </sp:Layout>
</wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<wsdl:import
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" location="" />
<wsdl:types />
<wsdl:binding name="CustomBinding_IUserChangePasswordProvider"
type="i0:IUserChangePasswordProvider">
<wsp:PolicyReference URI="#CustomBinding_IUserChangePasswordProvider_policy" />
<soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
<wsdl:operation name="ChangePassword">
<soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010/IUserChangePasswordProvider/ChangePassword" style="document" />
<wsdl:input>
<soap12:body use="literal" />
</wsdl:input>
<wsdl:output>
<soap12:body use="literal" />
</wsdl:output>
<wsdl:fault name="UserFaultFault">
<soap12:fault use="literal" name="UserFaultFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="UserExceptionFault">
<soap12:fault use="literal" name="UserExceptionFault" namespace="" />
</wsdl:fault>
<wsdl:fault name="UserExceptionFaultFault">
<soap12:fault use="literal" name="UserExceptionFaultFault" namespace="" />
</wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="UserChangePasswordProvider">
<wsdl:port name="CustomBinding_IUserChangePasswordProvider"
binding="tns:CustomBinding_IUserChangePasswordProvider">
<soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg user changepassword/
Microsoft.WindowsServerSolutions.Users.IUserChangePasswordProvider" />
<wsa10:EndpointReference>
<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg user changepas
sword/Microsoft.WindowsServerSolutions.Users.IUserChangePasswordProvider</wsa10:Address>
<Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
<Spn>host/serverName.domain</Spn>
</Identity>
</wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

## 6.5.2.2 wsdl2

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing"
xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"

```

```

xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xsd:schema
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010/Imports">
      <xsd:import schemaLocation=""
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="IUserChangePasswordProvider ChangePassword InputMessage">
    <wsdl:part name="parameters" element="tns:ChangePassword" />
  </wsdl:message>
  <wsdl:message name="IUserChangePasswordProvider ChangePassword OutputMessage">
    <wsdl:part name="parameters" element="tns:ChangePasswordResponse" />
  </wsdl:message>
  <wsdl:message
name="IUserChangePasswordProvider_ChangePassword_UserFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q1:UserFault" />
  </wsdl:message>
  <wsdl:message
name="IUserChangePasswordProvider_ChangePassword_UserExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q2:UserException" />
  </wsdl:message>
  <wsdl:message
name="IUserChangePasswordProvider_ChangePassword_UserExceptionFaultFault_FaultMessage">
    <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
name="detail" element="q3:UserExceptionFault" />
  </wsdl:message>
  <wsdl:portType name="IUserChangePasswordProvider">
    <wsdl:operation name="ChangePassword">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserChangePasswordProvider/ChangePassword"
message="tns:IUserChangePasswordProvider_ChangePassword_InputMessage" />
      <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserChangePasswordProvider/ChangePasswordResponse"
message="tns:IUserChangePasswordProvider_ChangePassword_OutputMessage" />
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserChangePasswordProvider/ChangePasswordUserFaultFault" name="UserFaultFault"
message="tns:IUserChangePasswordProvider_ChangePassword_UserFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserChangePasswordProvider/ChangePasswordUserExceptionFault"
name="UserExceptionFault"
message="tns:IUserChangePasswordProvider ChangePassword UserExceptionFault FaultMessage" />
      <wsdl:fault
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserChangePasswordProvider/ChangePasswordUserExceptionFaultFault"
name="UserExceptionFaultFault"
message="tns:IUserChangePasswordProvider ChangePassword UserExceptionFaultFault FaultMessage"
/>
    </wsdl:operation>
  </wsdl:portType>

```

```

    </wsdl:operation>
  </wsdl:portType>
</wsdl:definitions>

```

### 6.5.2.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="" namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="UserFault">
    <xs:sequence>
      <xs:element minOccurs="0" name="ExceptionCode" type="xs:int" />
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="UserCode" type="tns:UserCustomExceptionCode" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="UserFault" nillable="true" type="tns:UserFault" />
  <xs:simpleType name="UserCustomExceptionCode">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Succeeded" />
      <xs:enumeration value="WinLogonFailed" />
      <xs:enumeration value="UserExists" />
      <xs:enumeration value="UserNotExist" />
      <xs:enumeration value="ProviderNotAvailable" />
      <xs:enumeration value="AccessDenied" />
      <xs:enumeration value="TooManyUsers" />
      <xs:enumeration value="CreateUserSharedFolderFailed" />
      <xs:enumeration value="Failed" />
      <xs:enumeration value="ActiveDirectoryNotAvailable" />
      <xs:enumeration value="ModifySecurityGroupMembershipFailed" />
      <xs:enumeration value="CannotRevokeInheritedPermission" />
      <xs:enumeration value="GroupNotExist" />
      <xs:enumeration value="WeakPassword" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="UserCustomExceptionCode" nillable="true"
  type="tns:UserCustomExceptionCode" />
  <xs:complexType name="UserException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:ql="http://schemas.datacontract.org/2004/07/System"
      base="ql:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="UserException" nillable="true" type="tns:UserException" />
  <xs:complexType name="UserExceptionFault">
    <xs:sequence>
      <xs:element minOccurs="0" name="ErrorCode" type="xs:int" />
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="UserErrorCode" type="tns:UserCustomExceptionCode" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="UserExceptionFault" nillable="true" type="tns:UserExceptionFault" />
</xs:schema>

```

### 6.5.2.4 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
  attributeFormDefault="qualified" elementFormDefault="qualified"

```

```

targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.5.2.5 http://schemas.datacontract.org/2004/07/System

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local" processContents="skip" />
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="tns:Exception" />
</xs:schema>

```



## 6.5.2.6 <http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010>

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010" elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="ChangePassword">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="oldPassword" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="newPassword" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ChangePasswordResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
</xs:schema>
```

## 6.5.3 IUserInfoProvider

### 6.5.3.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:i0="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:soapenc1="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="UserInfoProvider"
targetNamespace="http://tempuri.org/" xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IUserInfoProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
```

```

        <sp:Strict />
    </wsp:Policy>
</sp:Layout>
</wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<wsdl:import
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" location="" />
<wsdl:types />
<wsdl:binding name="CustomBinding_IUserInfoProvider" type="i0:IUserInfoProvider">
    <wsp:PolicyReference URI="#CustomBinding_IUserInfoProvider_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="GetGroups">
        <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/GetGroups" style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="GetWSSServerGroups">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/GetWSSServerGroups" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
            <wsdl:operation name="IsPartOfServerUsers">
                <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/IsPartOfServerUsers" style="document" />
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                </wsdl:operation>
                <wsdl:operation name="ReturnGroups">
                    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/ReturnGroups" style="document" />
                        <wsdl:output>
                            <soap12:body use="literal" />
                        </wsdl:output>
                    </wsdl:operation>
                    <wsdl:operation name="ReturnWSSServerGroups">
                        <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/ReturnWSSServerGroups" style="document" />
                            <wsdl:output>
                                <soap12:body use="literal" />
                            </wsdl:output>
                        </wsdl:operation>
                        <wsdl:operation name="ReturnIsPartOfServerUsers">
                            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010/IUserInfoProvider/ReturnIsPartOfServerUsers" style="document" />
                                <wsdl:output>
                                    <soap12:body use="literal" />
                                </wsdl:output>
                            </wsdl:operation>
                        </wsdl:binding>
                    <wsdl:service name="UserInfoProvider">
                        <wsdl:port name="CustomBinding_IUserInfoProvider"
binding="tns:CustomBinding_IUserInfoProvider">

```

```

    <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_user_info/Microsoft
.WindowsServerSolutions.Users.IUserInfoProvider" />
    <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg user info/Micr
osoft.WindowsServerSolutions.Users.IUserInfoProvider</wsa10:Address>
    <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
    <Spn>host/serverName.domain</Spn>
    </Identity>
    </wsa10:EndpointReference>
</wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

### 6.5.3.2 wsdl2

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing"
xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:types>
    <xsd:schema
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notificati
ons/3/2010/Imports">
    <xsd:import schemaLocation=""
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/
2010" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users" />
    </xsd:schema>
</wsdl:types>
<wsdl:message name="IUserInfoProvider_GetGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:GetGroups" />
</wsdl:message>
<wsdl:message name="IUserInfoProvider_GetWSSServerGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:GetWSSServerGroups" />
</wsdl:message>
<wsdl:message name="IUserInfoProvider_IsPartOfServerUsers_InputMessage">
    <wsdl:part name="parameters" element="tns:IsPartOfServerUsers" />
</wsdl:message>
<wsdl:message name="IUserInfoProvider_ReturnGroups_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ReturnGroups" />
</wsdl:message>
<wsdl:message name="IUserInfoProvider_ReturnWSSServerGroups_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ReturnWSSServerGroups" />
</wsdl:message>
<wsdl:message name="IUserInfoProvider_ReturnIsPartOfServerUsers_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ReturnIsPartOfServerUsers" />
</wsdl:message>
<wsdl:portType name="IUserInfoProvider">

```

```

    <wsdl:operation name="GetGroups">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/GetGroups" message="tns:IUserInfoProvider_GetGroups_InputMessage" />
      </wsdl:operation>
    <wsdl:operation name="GetWSSServerGroups">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/GetWSSServerGroups"
message="tns:IUserInfoProvider_GetWSSServerGroups_InputMessage" />
      </wsdl:operation>
    <wsdl:operation name="IsPartOfServerUsers">
      <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/IsPartOfServerUsers"
message="tns:IUserInfoProvider_IsPartOfServerUsers_InputMessage" />
      </wsdl:operation>
    <wsdl:operation name="ReturnGroups">
      <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/ReturnGroups"
message="tns:IUserInfoProvider_ReturnGroups_OutputCallbackMessage" />
      </wsdl:operation>
    <wsdl:operation name="ReturnWSSServerGroups">
      <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/ReturnWSSServerGroups"
message="tns:IUserInfoProvider_ReturnWSSServerGroups_OutputCallbackMessage" />
      </wsdl:operation>
    <wsdl:operation name="ReturnIsPartOfServerUsers">
      <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserInfoProvider/ReturnIsPartOfServerUsers"
message="tns:IUserInfoProvider_ReturnIsPartOfServerUsers_OutputCallbackMessage" />
      </wsdl:operation>
  </wsdl:portType>
</wsdl:definitions>

```

### 6.5.3.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolution.SUsers>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ReturnClass">
    <xs:sequence>
      <xs:element minOccurs="0" name="NativeError" type="xs:int" />
      <xs:element minOccurs="0" name="UserCode" type="tns:UserCustomExceptionCode" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReturnClass" nillable="true" type="tns:ReturnClass" />
  <xs:simpleType name="UserCustomExceptionCode">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Succeeded" />
      <xs:enumeration value="WinLogonFailed" />
      <xs:enumeration value="UserExists" />
      <xs:enumeration value="UserNotExist" />
      <xs:enumeration value="ProviderNotAvailable" />
      <xs:enumeration value="AccessDenied" />
      <xs:enumeration value="TooManyUsers" />
      <xs:enumeration value="CreateUserSharedFolderFailed" />
      <xs:enumeration value="Failed" />
      <xs:enumeration value="ActiveDirectoryNotAvailable" />
      <xs:enumeration value="ModifySecurityGroupMembershipFailed" />
    </xs:restriction>
  </xs:simpleType>

```

```

        <xs:enumeration value="CannotRevokeInheritedPermission" />
        <xs:enumeration value="GroupNotExist" />
        <xs:enumeration value="WeakPassword" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="UserCustomExceptionCode" nillable="true"
type="tns:UserCustomExceptionCode" />
<xs:complexType name="ArrayOfWSSServerGroupType">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="WSSServerGroupType"
type="tns:WSSServerGroupType" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfWSSServerGroupType" nillable="true"
type="tns:ArrayOfWSSServerGroupType" />
<xs:simpleType name="WSSServerGroupType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="InvalidAccess" />
        <xs:enumeration value="RemoteAccess" />
        <xs:enumeration value="ShareAccess" />
        <xs:enumeration value="ComputerAccess" />
        <xs:enumeration value="MediaAccess" />
        <xs:enumeration value="AddInAccess" />
        <xs:enumeration value="DashboardAccess" />
        <xs:enumeration value="HomePageLinks" />
        <xs:enumeration value="NetworkAlertAccess" />
        <xs:enumeration value="VpnAccess" />
        <xs:enumeration value="InvisibleToDashboard" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="WSSServerGroupType" nillable="true" type="tns:WSSServerGroupType" />
</xs:schema>

```

### 6.5.3.4 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="ArrayOfstring">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
</xs:schema>

```

### 6.5.3.5 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />

```

```

<xs:element name="int" nillable="true" type="xs:int" />
<xs:element name="long" nillable="true" type="xs:long" />
<xs:element name="QName" nillable="true" type="xs:QName" />
<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.5.3.6 <http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
  elementFormDefault="qualified"
  targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import schemaLocation=""
    namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users" />
  <xs:element name="GetGroups">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetWSSServerGroups">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="IsPartOfServerUsers">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnGroups">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0" name="groups" nillable="true" type="q1:ArrayOfstring" />

```

```

        <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
minOccurs="0" name="ret" nillable="true" type="q2:ReturnClass" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReturnWSSServerGroups">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
minOccurs="0" name="groups" nillable="true" type="q3:ArrayOfWSSServerGroupType" />
          <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
minOccurs="0" name="ret" nillable="true" type="q4:ReturnClass" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="ReturnIsPartOfServerUsers">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="bIsPartOfServerUsers" type="xs:boolean" />
              <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
minOccurs="0" name="ret" nillable="true" type="q5:ReturnClass" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:schema>

```

## 6.6 Provider Registry Service WSDL

### 6.6.1 IProviderRegistry

#### 6.6.1.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="ProviderRegistryService"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding IProviderRegistry policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
          <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
            <wsp:Policy>
              <sp:TransportToken>
                <wsp:Policy>
                  <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy" />
                    </wsp:Policy>
                </sp:TransportToken>
              <sp:AlgorithmSuite>
                <wsp:Policy>

```

```

        <sp:Basic256 />
      </wsp:Policy>
    </sp:AlgorithmSuite>
    <sp:Layout>
      <wsp:Policy>
        <sp:Strict />
      </wsp:Policy>
    </sp:Layout>
  </wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy wsu:Id="CustomBinding_IProviderRegistration_policy">
  <wsp:ExactlyOne>
    <wsp:All>
      <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
      <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
              </msf:WindowsTransportSecurity>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256 />
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict />
            </wsp:Policy>
          </sp:Layout>
        </wsp:Policy>
      </sp:TransportBinding>
      <wsaw:UsingAddressing />
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import namespace="http://tempuri.org/" />
    <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.Pr
oviderFramework" />
    <xsd:import
namespace="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderF
ramework" />
    <xsd:import namespace="http://schemas.datacontract.org/2004/07/System" />
  </xsd:schema>
</wsdl:types>
<wsdl:message name="IProviderRegistry Disconnect InputMessage">
  <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_Query_InputMessage">
  <wsdl:part name="parameters" element="tns:Query" />
</wsdl:message>
<wsdl:message name="IProviderRegistry Query OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryResponse" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_QueryAll_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAll" />

```



```

</wsdl:message>
<wsdl:message name="IProviderRegistry_QueryAll_OutputMessage">
  <wsdl:part name="parameters" element="tns:QueryAllResponse" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_RequestProviderInfoUpdate_InputMessage">
  <wsdl:part name="parameters" element="tns:RequestProviderInfoUpdate" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_RequestProviderInfoUpdate_OutputMessage">
  <wsdl:part name="parameters" element="tns:RequestProviderInfoUpdateResponse" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_GetVersion_InputMessage">
  <wsdl:part name="parameters" element="tns:GetVersion" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_GetVersion_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetVersionResponse" />
</wsdl:message>
<wsdl:message name="IProviderRegistry_InformOfProviderUpdate_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:InformOfProviderUpdate" />
</wsdl:message>
<wsdl:message name="IProviderRegistration_Register_InputMessage">
  <wsdl:part name="parameters" element="tns:Register" />
</wsdl:message>
<wsdl:message name="IProviderRegistration_InformOfProviderUpdate_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:InformOfProviderUpdate" />
</wsdl:message>
<wsdl:portType msc:usingSession="true" name="IProviderRegistry">
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="true" name="Disconnect">
    <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistryConnection/Disconnect"
message="tns:IProviderRegistry_Disconnect_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Query">
    <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistry/Query"
message="tns:IProviderRegistry_Query_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IProviderRegistry/QueryResponse"
message="tns:IProviderRegistry_Query_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="QueryAll">
    <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistry/QueryAll"
message="tns:IProviderRegistry_QueryAll_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IProviderRegistry/QueryAllResponse"
message="tns:IProviderRegistry_QueryAll_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RequestProviderInfoUpdate">
    <wsdl:input
wsaw:Action="http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdate"
message="tns:IProviderRegistry_RequestProviderInfoUpdate_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdateResponse"
message="tns:IProviderRegistry_RequestProviderInfoUpdate_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="GetVersion">
    <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistry/GetVersion"
message="tns:IProviderRegistry_GetVersion_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IProviderRegistry/GetVersionResponse"
message="tns:IProviderRegistry_GetVersion_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="InformOfProviderUpdate">
    <wsdl:output wsaw:Action="http://tempuri.org/IProviderRegistry/InformOfProviderUpdate"
message="tns:IProviderRegistry_InformOfProviderUpdate_OutputCallbackMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:portType msc:usingSession="true" name="IProviderRegistration">
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="true" name="Disconnect">
      <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistryConnection/Disconnect"
message="tns:IProviderRegistry_Disconnect_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Register">

```

```

        <wsdl:input wsaw:Action="http://tempuri.org/IProviderRegistration/Register"
message="tns:IProviderRegistration_Register_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="InformOfProviderUpdate">
        <wsdl:output
wsaw:Action="http://tempuri.org/IProviderRegistration/InformOfProviderUpdate"
message="tns:IProviderRegistration_InformOfProviderUpdate_OutputCallbackMessage" />
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding IProviderRegistry" type="tns:IProviderRegistry">
    <wsp:PolicyReference URI="#CustomBinding_IProviderRegistry_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="Disconnect">
        <soap12:operation
soapAction="http://tempuri.org/IProviderRegistryConnection/Disconnect" style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="Query">
            <soap12:operation soapAction="http://tempuri.org/IProviderRegistry/Query"
style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
                <wsdl:output>
                    <soap12:body use="literal" />
                </wsdl:output>
            </wsdl:operation>
            <wsdl:operation name="QueryAll">
                <soap12:operation soapAction="http://tempuri.org/IProviderRegistry/QueryAll"
style="document" />
                    <wsdl:input>
                        <soap12:body use="literal" />
                    </wsdl:input>
                    <wsdl:output>
                        <soap12:body use="literal" />
                    </wsdl:output>
                </wsdl:operation>
                <wsdl:operation name="RequestProviderInfoUpdate">
                    <soap12:operation
soapAction="http://tempuri.org/IProviderRegistry/RequestProviderInfoUpdate" style="document"
/>
                        <wsdl:input>
                            <soap12:body use="literal" />
                        </wsdl:input>
                        <wsdl:output>
                            <soap12:body use="literal" />
                        </wsdl:output>
                    </wsdl:operation>
                    <wsdl:operation name="GetVersion">
                        <soap12:operation soapAction="http://tempuri.org/IProviderRegistry/GetVersion"
style="document" />
                            <wsdl:input>
                                <soap12:body use="literal" />
                            </wsdl:input>
                            <wsdl:output>
                                <soap12:body use="literal" />
                            </wsdl:output>
                        </wsdl:operation>
                        <wsdl:operation name="InformOfProviderUpdate">
                            <soap12:operation
soapAction="http://tempuri.org/IProviderRegistry/InformOfProviderUpdate" style="document" />
                                <wsdl:output>
                                    <soap12:body use="literal" />
                                </wsdl:output>
                            </wsdl:operation>
                        </wsdl:binding>

```

```

    <wsdl:binding name="CustomBinding IProviderRegistration" type="tns:IProviderRegistration">
      <wsp:PolicyReference URI="#CustomBinding_IProviderRegistration_policy" />
      <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
      <wsdl:operation name="Disconnect">
        <soap12:operation
soapAction="http://tempuri.org/IProviderRegistryConnection/Disconnect" style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="Register">
          <soap12:operation soapAction="http://tempuri.org/IProviderRegistration/Register"
style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
          </wsdl:operation>
          <wsdl:operation name="InformOfProviderUpdate">
            <soap12:operation
soapAction="http://tempuri.org/IProviderRegistration/InformOfProviderUpdate" style="document"
/>
              <wsdl:output>
                <soap12:body use="literal" />
              </wsdl:output>
            </wsdl:operation>
          </wsdl:binding>
          <wsdl:service name="ProviderRegistryService">
            <wsdl:port name="CustomBinding_IProviderRegistry"
binding="tns:CustomBinding_IProviderRegistry">
              <soap12:address
location="net.tcp://serverName:6602//Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProviderRegistry" />
                <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602//Microsoft.WindowsServerSolutions.Common.ProviderFra
mework.IProviderRegistry</wsa10:Address>
                  <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                    <Dns>SERVERNAME</Dns>
                  </Identity>
                </wsa10:EndpointReference>
              </wsdl:port>
            <wsdl:port name="CustomBinding_IProviderRegistration"
binding="tns:CustomBinding_IProviderRegistration">
              <soap12:address
location="net.tcp://localhost:65532//Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProviderRegistration" />
                <wsa10:EndpointReference>

<wsa10:Address>net.tcp://localhost:65532//Microsoft.WindowsServerSolutions.Common.ProviderFra
mework.IProviderRegistration</wsa10:Address>
                  <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                    <Spn>host/serverName.domain</Spn>
                  </Identity>
                </wsa10:EndpointReference>
              </wsdl:port>
            </wsdl:service>
          </wsdl:definitions>

```

### 6.6.1.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.Pr
oviderFramework" />

```

```

    <xs:import
namespace="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" />
    <xs:element name="Disconnect">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="Query">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.ProviderFramework" minOccurs="0" name="specification" nillable="true"
type="q1:QuerySpecification" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="QueryResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element
xmlns:q2="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" minOccurs="0" name="QueryResult" nillable="true" type="q2:ArrayOfProviderInfo" />
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="QueryAll">
                <xs:complexType>
                    <xs:sequence />
                </xs:complexType>
            </xs:element>
            <xs:element name="QueryAllResponse">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element
xmlns:q3="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" minOccurs="0" name="QueryAllResult" nillable="true" type="q3:ArrayOfProviderInfo" />
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element name="RequestProviderInfoUpdate">
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element
xmlns:q4="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" minOccurs="0" name="providersToUpdate" nillable="true" type="q4:ArrayOfProviderInfo"
/>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                    <xs:element name="RequestProviderInfoUpdateResponse">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element
xmlns:q5="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework" minOccurs="0" name="RequestProviderInfoUpdateResult" nillable="true"
type="q5:ArrayOfProviderInfo" />
                                </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                        <xs:element name="GetVersion">
                            <xs:complexType>
                                <xs:sequence />
                            </xs:complexType>
                        </xs:element>
                        <xs:element name="GetVersionResponse">
                            <xs:complexType>
                                <xs:sequence>

```

```

        <xs:element minOccurs="0" name="GetVersionResult" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="InformOfProviderUpdate">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q6="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFr
amework" minOccurs="0" name="info" nillable="true" type="q6:ProviderInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Register">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q7="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFr
amework" minOccurs="0" name="info" nillable="true" type="q7:ProviderInfo" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>

```

### 6.6.1.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolution.S.Common.ProviderFramework>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.
ProviderFramework" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.C
ommon.ProviderFramework" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:complexType name="QuerySpecification">
        <xs:sequence>
            <xs:element minOccurs="0" name="Contract" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="ProviderId" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Server" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="QuerySpecification" nillable="true" type="tns:QuerySpecification"
/>
    <xs:complexType name="ProviderEndpointBehaviorAttribute">
        <xs:complexContent mixed="false">
            <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:Attribute">
                <xs:sequence>
                    <xs:element minOccurs="0" name="AllowedConnectionType"
type="tns:ConnectionSetting" />
                    <xs:element minOccurs="0" name="EndpointCredentialType"
type="tns:CredentialType" />
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ProviderEndpointBehaviorAttribute" nillable="true"
type="tns:ProviderEndpointBehaviorAttribute" />
    <xs:simpleType name="ConnectionSetting">
        <xs:restriction base="xs:string">
            <xs:enumeration value="AllowLocalAccessOnly" />
            <xs:enumeration value="AllowRemoteAccess" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="ConnectionSetting" nillable="true" type="tns:ConnectionSetting" />
    <xs:simpleType name="CredentialType">
        <xs:restriction base="xs:string">

```

```

        <xs:enumeration value="User" />
        <xs:enumeration value="Machine" />
        <xs:enumeration value="None" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="CredentialType" nillable="true" type="tns:CredentialType" />
<xs:complexType name="RequiredImpersonationLevelAttribute">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q2="http://schemas.datacontract.org/2004/07/System"
base="q2:Attribute">
            <xs:sequence>
                <xs:element minOccurs="0" name="Level" type="tns:ImpersonationLevel" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="RequiredImpersonationLevelAttribute" nillable="true"
type="tns:RequiredImpersonationLevelAttribute" />
<xs:simpleType name="ImpersonationLevel">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Identification" />
        <xs:enumeration value="Impersonation" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="ImpersonationLevel" nillable="true" type="tns:ImpersonationLevel"
/>
</xs:schema>

```

#### 6.6.1.4 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />
    <xs:element name="int" nillable="true" type="xs:int" />
    <xs:element name="long" nillable="true" type="xs:long" />
    <xs:element name="QName" nillable="true" type="xs:QName" />
    <xs:element name="short" nillable="true" type="xs:short" />
    <xs:element name="string" nillable="true" type="xs:string" />
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
    <xs:element name="char" nillable="true" type="tns:char" />
    <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns:duration" />
    <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
            <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="guid" nillable="true" type="tns:guid" />
    <xs:simpleType name="guid">

```

```

    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.6.1.5 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System"
    elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="Attribute">
      <xs:sequence />
    </xs:complexType>
    <xs:element name="Attribute" nillable="true" type="tns:Attribute" />
  </xs:schema>

```

### 6.6.1.6 <http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema
    xmlns:tns="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework"
    elementFormDefault="qualified"
    targetNamespace="http://www.microsoft.com/2010/06/Microsoft.WindowsServerSolutions.Common.ProviderFramework"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
      namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.ProviderFramework" />
    <xs:complexType name="ArrayOfProviderInfo">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ProviderInfo"
          nillable="true" type="tns:ProviderInfo" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfProviderInfo" nillable="true"
      type="tns:ArrayOfProviderInfo" />
    <xs:complexType name="ProviderInfo">
      <xs:sequence>
        <xs:element minOccurs="0" name="Address" nillable="true" type="xs:anyURI" />
        <xs:element minOccurs="0" name="Binding" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Connected" type="xs:boolean" />
        <xs:element minOccurs="0" name="Contract" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Host" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Identifier" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="IsInProc" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ProviderEndpointBehavior" nillable="true"
      type="q1:ProviderEndpointBehaviorAttribute" />
    <xs:element
      xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.ProviderFramework"
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Common.ProviderFramework"
      minOccurs="0" name="RequiredImpersonationLevel" nillable="true"
      type="q2:RequiredImpersonationLevelAttribute" />
  </xs:schema>

```

## 6.6.2 INotificationProviderServiceAdminOnly

### 6.6.2.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
  <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:i0="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3
/2010" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="NotificationProviderServiceAdminOnly"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_INotificationProviderServiceAdminOnly_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsdl:import
namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010" location="" />
  <wsdl:types />
  <wsdl:binding name="CustomBinding_INotificationProviderServiceAdminOnly"
type="i0:INotificationProviderServiceAdminOnly">
    <wsp:PolicyReference
URI="#CustomBinding_INotificationProviderServiceAdminOnly_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="Connect">
      <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/Connect" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
    </wsdl:operation>
  </wsdl:binding>

```



```

        <wsdl:operation name="RaiseNotifications">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RaiseNotifications" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="ClearNotifications">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/ClearNotifications" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="RequestNotificationChange">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RequestNotificationChange" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="FireEvent">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/FireEvent" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="AddCategoryFilters">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/AddCategoryFilters" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="RemoveCategoryFilters">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RemoveCategoryFilters" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="Disconnect">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/Disconnect" style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
            </wsdl:operation>
        <wsdl:operation name="Connect">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/Connect" style="document" />
                <wsdl:output>
                    <soap12:body use="literal" />
                </wsdl:output>
            </wsdl:operation>
        <wsdl:operation name="RaiseNotifications">
            <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RaiseNotifications" style="document" />
                <wsdl:output>

```

```

        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ClearNotifications">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/ClearNotifications" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="RequestNotificationChange">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RequestNotificationChange" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="FireEvent">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/FireEvent" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="AddCategoryFilters">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/AddCategoryFilters" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="RemoveCategoryFilters">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/RemoveCategoryFilters" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="Disconnect">
    <soap12:operation
soapAction="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications
/3/2010/INotificationProviderService/Disconnect" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:service name="NotificationProviderServiceAdminOnly">
    <wsdl:port name="CustomBinding INotificationProviderServiceAdminOnly"
binding="tns:CustomBinding_INotificationProviderServiceAdminOnly">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.ProviderFramework.Serv
erNotificationProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.Internal.I
NotificationProviderServiceAdminOnly" />
            <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.ProviderFramework
.ServerNotificationProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.Inter
nal.INotificationProviderServiceAdminOnly</wsa10:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                <Spn>host/serverName.domain</Spn>
            </Identity>
            </wsa10:EndpointReference>
        </wsdl:port>

```

```
</wsdl:service>
</wsdl:definitions>
```

## 6.6.2.2 wsdl2

```
<?xml version="1.0" encoding="utf-8"?>
  <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
    xmlns:wsa10="http://www.w3.org/2005/08/addressing"
    xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
    xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
    xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
    xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
    xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
    xmlns:w3="http://www.w3.org/2006/05/addressing/wsdl"
    xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
    xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:types>
      <xsd:schema
        targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/Imports">
        <xsd:import schemaLocation=""
          namespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010" />
        <xsd:import schemaLocation=""
          namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import schemaLocation=""
          namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
        </xsd:schema>
      </wsdl:types>
      <wsdl:message name="INotificationProviderServiceAdminOnly_Connect_InputMessage">
        <wsdl:part name="parameters" element="tns:Connect" />
      </wsdl:message>
      <wsdl:message
        name="INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage">
        <wsdl:part name="parameters" element="tns:RaiseNotifications" />
      </wsdl:message>
      <wsdl:message
        name="INotificationProviderServiceAdminOnly_ClearNotifications_InputMessage">
        <wsdl:part name="parameters" element="tns:ClearNotifications" />
      </wsdl:message>
      <wsdl:message
        name="INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage">
        <wsdl:part name="parameters" element="tns:RequestNotificationChange" />
      </wsdl:message>
      <wsdl:message name="INotificationProviderServiceAdminOnly_FireEvent_InputMessage">
        <wsdl:part name="parameters" element="tns:FireEvent" />
      </wsdl:message>
      <wsdl:message
        name="INotificationProviderServiceAdminOnly_AddCategoryFilters_InputMessage">
        <wsdl:part name="parameters" element="tns:AddCategoryFilters" />
      </wsdl:message>
      <wsdl:message
        name="INotificationProviderServiceAdminOnly_RemoveCategoryFilters_InputMessage">
        <wsdl:part name="parameters" element="tns:RemoveCategoryFilters" />
      </wsdl:message>
      <wsdl:message name="INotificationProviderServiceAdminOnly_Disconnect_InputMessage">
        <wsdl:part name="parameters" element="tns:Disconnect" />
      </wsdl:message>
      <wsdl:portType msc:usingSession="true" name="INotificationProviderServiceAdminOnly">
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Connect">
          <wsdl:input
            wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
```

```

s/3/2010/INotificationProviderService/Connect"
message="tns:INotificationProviderServiceAdminOnly Connect InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RaiseNotifications">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RaiseNotifications"
message="tns:INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="ClearNotifications">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/ClearNotifications"
message="tns:INotificationProviderServiceAdminOnly ClearNotifications InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RequestNotificationChange">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RequestNotificationChange"
message="tns:INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage"
/>
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="FireEvent">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/FireEvent"
message="tns:INotificationProviderServiceAdminOnly_FireEvent_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="AddCategoryFilters">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/AddCategoryFilters"
message="tns:INotificationProviderServiceAdminOnly_AddCategoryFilters_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RemoveCategoryFilters">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RemoveCategoryFilters"
message="tns:INotificationProviderServiceAdminOnly RemoveCategoryFilters InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="true"
name="Disconnect">
  <wsdl:input
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/Disconnect"
message="tns:INotificationProviderServiceAdminOnly Disconnect InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Connect">
  <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/Connect"
message="tns:INotificationProviderServiceAdminOnly Connect InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RaiseNotifications">
  <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RaiseNotifications"
message="tns:INotificationProviderServiceAdminOnly_RaiseNotifications_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="ClearNotifications">
  <wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification

```

```

s/3/2010/INotificationProviderService/ClearNotifications"
message="tns:INotificationProviderServiceAdminOnly_ClearNotifications_InputMessage" />
</wsdl:operation>
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RequestNotificationChange">
<wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RequestNotificationChange"
message="tns:INotificationProviderServiceAdminOnly_RequestNotificationChange_InputMessage"
/>
</wsdl:operation>
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="FireEvent">
<wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/FireEvent"
message="tns:INotificationProviderServiceAdminOnly_FireEvent_InputMessage" />
</wsdl:operation>
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="AddCategoryFilters">
<wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/AddCategoryFilters"
message="tns:INotificationProviderServiceAdminOnly_AddCategoryFilters_InputMessage" />
</wsdl:operation>
<wsdl:operation msc:isInitiating="false" msc:isTerminating="false"
name="RemoveCategoryFilters">
<wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/RemoveCategoryFilters"
message="tns:INotificationProviderServiceAdminOnly_RemoveCategoryFilters_InputMessage" />
</wsdl:operation>
<wsdl:operation msc:isInitiating="false" msc:isTerminating="true"
name="Disconnect">
<wsdl:output
wsaw:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notification
s/3/2010/INotificationProviderService/Disconnect"
message="tns:INotificationProviderServiceAdminOnly_Disconnect_InputMessage" />
</wsdl:operation>
</wsdl:portType>
</wsdl:definitions>

```

### 6.6.2.3 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:complexType name="ArrayOfstring">
<xs:sequence>
<xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
</xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
</xs:schema>

```

### 6.6.2.4 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name="anyType" nillable="true" type="xs:anyType" />

```

```

<xs:element name="anyURI" nillable="true" type="xs:anyURI" />
<xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
<xs:element name="boolean" nillable="true" type="xs:boolean" />
<xs:element name="byte" nillable="true" type="xs:byte" />
<xs:element name="dateTime" nillable="true" type="xs:dateTime" />
<xs:element name="decimal" nillable="true" type="xs:decimal" />
<xs:element name="double" nillable="true" type="xs:double" />
<xs:element name="float" nillable="true" type="xs:float" />
<xs:element name="int" nillable="true" type="xs:int" />
<xs:element name="long" nillable="true" type="xs:long" />
<xs:element name="QName" nillable="true" type="xs:QName" />
<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[da-fA-F]{8}-[da-fA-F]{4}-[da-fA-F]{4}-[da-fA-F]{4}-[da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.6.2.5 <http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
  elementFormDefault="qualified"
  targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="Connect">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
        <xs:element
          xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0"
          name="categoryFilter" nillable="true" type="q1:ArrayOfstring" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RaiseNotifications">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="newNotificationListChunk" nillable="true"
            type="xs:base64Binary" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:schema>

```

```

        <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ClearNotifications">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="oldNotificationListChunk" nillable="true"
type="xs:base64Binary" />
        <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RequestNotificationChange">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="changeRequestChunk" nillable="true"
type="xs:base64Binary" />
        <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="FireEvent">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="oneShotChunk" nillable="true"
type="xs:base64Binary" />
        <xs:element minOccurs="0" name="moreData" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddCategoryFilters">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="addFilters" nillable="true" type="q2:ArrayOfstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveCategoryFilters">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="removeFilters" nillable="true" type="q3:ArrayOfstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Disconnect">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
</xs:schema>

```

## 6.7 Addin Management Service WSDL

### 6.7.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"

```

```

xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="AddInMetadataProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IAddInMetadata_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:RequireClientCertificate />
                </msf:SslTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsp:Policy wsu:Id="CustomBinding_IAddInMetadataInstall_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>

```



```

    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsdl:types>
    <xsd:schema targetNamespace="http://tempuri.org/Imports">
      <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="IAddInMetadata_GetPackagePath_InputMessage">
    <wsdl:part name="parameters" element="tns:GetPackagePath" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetPackagePath_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetPackagePathResponse" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetPackagePath_AddInErrorFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q1:AddInError" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetAddInIds_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAddInIds" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetAddInIds_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAddInIdsResponse" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetAddInIds_AddInErrorFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q2:AddInError" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetAddInInformation_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAddInInformation" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_GetAddInInformation_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAddInInformationResponse" />
  </wsdl:message>
  <wsdl:message
name="IAddInMetadata_GetAddInInformation_AddInErrorFault_FaultMessage">
    <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q3:AddInError" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_RegisterForChanges_InputMessage">
    <wsdl:part name="parameters" element="tns:RegisterForChanges" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_RegisterForChanges_OutputMessage">
    <wsdl:part name="parameters" element="tns:RegisterForChangesResponse" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_OperationInProgress_InputMessage">
    <wsdl:part name="parameters" element="tns:OperationInProgress" />
  </wsdl:message>
  <wsdl:message name="IAddInMetadata_OperationInProgress_OutputMessage">
    <wsdl:part name="parameters" element="tns:OperationInProgressResponse" />
  </wsdl:message>
  <wsdl:message
name="IAddInMetadata_OperationInProgress_AddInErrorFault_FaultMessage">

```

```

        <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q4:AddInError" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadata_ChangeOccured_OutputCallbackMessage">
        <wsdl:part name="parameters" element="tns:ChangeOccured" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_CheckCredentials_InputMessage">
        <wsdl:part name="parameters" element="tns:CheckCredentials" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_CheckCredentials_OutputMessage">
        <wsdl:part name="parameters" element="tns:CheckCredentialsResponse" />
        </wsdl:message>
        <wsdl:message
name="IAddInMetadataInstall_CheckCredentials_AddInErrorFault_FaultMessage">
        <wsdl:part
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q8:AddInError" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_InstallAddIn_InputMessage">
        <wsdl:part name="parameters" element="tns:InstallAddIn" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_DownloadInstallAddIn_InputMessage">
        <wsdl:part name="parameters" element="tns:DownloadInstallAddIn" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_UninstallAddIn_InputMessage">
        <wsdl:part name="parameters" element="tns:UninstallAddIn" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_CancelOperation_InputMessage">
        <wsdl:part name="parameters" element="tns:CancelOperation" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_StartUploadAddinFile_InputMessage">
        <wsdl:part name="parameters" element="tns:StartUploadAddinFile" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_StartUploadAddinFile_OutputMessage">
        <wsdl:part name="parameters" element="tns:StartUploadAddinFileResponse" />
        </wsdl:message>
        <wsdl:message
name="IAddInMetadataInstall_StartUploadAddinFile_AddInErrorFault_FaultMessage">
        <wsdl:part
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" name="detail" element="q9:AddInError" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_UploadAddinFile_InputMessage">
        <wsdl:part name="parameters" element="tns:UploadAddinFile" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_UploadAddinFile_OutputMessage">
        <wsdl:part name="parameters" element="tns:UploadAddinFileResponse" />
        </wsdl:message>
        <wsdl:message
name="IAddInMetadataInstall_UploadAddinFile_AddInErrorFault_FaultMessage">
        <wsdl:part
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
frastructure" name="detail" element="q10:AddInError" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_EndUploadAddinFile_InputMessage">
        <wsdl:part name="parameters" element="tns:EndUploadAddinFile" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_EndUploadAddinFile_OutputMessage">
        <wsdl:part name="parameters" element="tns:EndUploadAddinFileResponse" />
        </wsdl:message>
        <wsdl:message
name="IAddInMetadataInstall_EndUploadAddinFile_AddInErrorFault_FaultMessage">
        <wsdl:part
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
frastructure" name="detail" element="q11:AddInError" />
        </wsdl:message>
        <wsdl:message name="IAddInMetadataInstall_ProgressChanged_OutputCallbackMessage">
        <wsdl:part name="parameters" element="tns:ProgressChanged" />

```

```

</wsdl:message>
<wsdl:message name="IAddInMetadataInstall_ErrorOccured_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ErrorOccured" />
</wsdl:message>
<wsdl:message name="IAddInMetadataInstall_RebootRequired_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RebootRequired" />
</wsdl:message>
<wsdl:message
name="IAddInMetadataInstall_RestartDashboardRequired_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RestartDashboardRequired" />
</wsdl:message>
<wsdl:portType name="IAddInMetadata">
  <wsdl:operation name="GetPackagePath">
    <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadata/GetPackagePath"
message="tns:IAddInMetadata_GetPackagePath_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadata/GetPackagePathResponse"
message="tns:IAddInMetadata_GetPackagePath_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadata/GetPackagePathAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadata_GetPackagePath_AddInErrorFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAddInIds">
    <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInIds"
message="tns:IAddInMetadata_GetAddInIds_InputMessage" />
    <wsdl:output wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInIdsResponse"
message="tns:IAddInMetadata_GetAddInIds_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInIdsAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadata_GetAddInIds_AddInErrorFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAddInInformation">
    <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInInformation"
message="tns:IAddInMetadata_GetAddInInformation_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInInformationResponse"
message="tns:IAddInMetadata_GetAddInInformation_OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadata/GetAddInInformationAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadata_GetAddInInformation_AddInErrorFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="RegisterForChanges">
    <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadata/RegisterForChanges"
message="tns:IAddInMetadata_RegisterForChanges_InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadata/RegisterForChangesResponse"
message="tns:IAddInMetadata_RegisterForChanges_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="OperationInProgress">
    <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadata/OperationInProgress"
message="tns:IAddInMetadata OperationInProgress InputMessage" />
    <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadata/OperationInProgressResponse"
message="tns:IAddInMetadata OperationInProgress OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadata/OperationInProgressAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadata OperationInProgress_AddInErrorFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="ChangeOccured">
    <wsdl:output wsaw:Action="http://tempuri.org/IAddInMetadata/ChangeOccured"
message="tns:IAddInMetadata ChangeOccured OutputCallbackMessage" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType name="IAddInMetadataInstall">
  <wsdl:operation name="CheckCredentials">

```

```

        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentials"
message="tns:IAddInMetadataInstall_CheckCredentials_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentialsResponse"
message="tns:IAddInMetadataInstall_CheckCredentials_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/CheckCredentialsAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_CheckCredentials_AddInErrorFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="InstallAddIn">
        <wsdl:input wsaw:Action="http://tempuri.org/IAddInMetadataInstall/InstallAddIn"
message="tns:IAddInMetadataInstall_InstallAddIn_InputMessage" />
        </wsdl:operation>
        <wsdl:operation name="DownloadInstallAddIn">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/DownloadInstallAddIn"
message="tns:IAddInMetadataInstall_DownloadInstallAddIn_InputMessage" />
        </wsdl:operation>
        <wsdl:operation name="UninstallAddIn">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/UninstallAddIn"
message="tns:IAddInMetadataInstall_UninstallAddIn_InputMessage" />
        </wsdl:operation>
        <wsdl:operation name="CancelOperation">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/CancelOperation"
message="tns:IAddInMetadataInstall_CancelOperation_InputMessage" />
        </wsdl:operation>
        <wsdl:operation name="StartUploadAddinFile">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFile"
message="tns:IAddInMetadataInstall_StartUploadAddinFile_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFileResponse"
message="tns:IAddInMetadataInstall_StartUploadAddinFile_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFileAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_StartUploadAddinFile_AddInErrorFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="UploadAddinFile">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFile"
message="tns:IAddInMetadataInstall_UploadAddinFile_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFileResponse"
message="tns:IAddInMetadataInstall_UploadAddinFile_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/UploadAddinFileAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_UploadAddinFile_AddInErrorFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="EndUploadAddinFile">
        <wsdl:input
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFile"
message="tns:IAddInMetadataInstall_EndUploadAddinFile_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFileResponse"
message="tns:IAddInMetadataInstall_EndUploadAddinFile_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFileAddInErrorFault"
name="AddInErrorFault"
message="tns:IAddInMetadataInstall_EndUploadAddinFile_AddInErrorFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="ProgressChanged">

```

```

        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/ProgressChanged"
message="tns:IAddInMetadataInstall_ProgressChanged_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="ErrorOccured">
        <wsdl:output wsaw:Action="http://tempuri.org/IAddInMetadataInstall/ErrorOccured"
message="tns:IAddInMetadataInstall_ErrorOccured_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="RebootRequired">
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/RebootRequired"
message="tns:IAddInMetadataInstall_RebootRequired_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation name="RestartDashboardRequired">
        <wsdl:output
wsaw:Action="http://tempuri.org/IAddInMetadataInstall/RestartDashboardRequired"
message="tns:IAddInMetadataInstall_RestartDashboardRequired_OutputCallbackMessage" />
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_IAddInMetadata" type="tns:IAddInMetadata">
        <wsp:PolicyReference URI="#CustomBinding_IAddInMetadata_policy" />
        <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
        <wsdl:operation name="GetPackagePath">
            <soap12:operation soapAction="http://tempuri.org/IAddInMetadata/GetPackagePath"
style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AddInErrorFault">
                <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetAddInIds">
            <soap12:operation soapAction="http://tempuri.org/IAddInMetadata/GetAddInIds"
style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AddInErrorFault">
                <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetAddInInformation">
            <soap12:operation
soapAction="http://tempuri.org/IAddInMetadata/GetAddInInformation" style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AddInErrorFault">
                <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
            </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="RegisterForChanges">
            <soap12:operation
soapAction="http://tempuri.org/IAddInMetadata/RegisterForChanges" style="document" />
            <wsdl:input>
                <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap12:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>

```

```

        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="OperationInProgress">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadata/OperationInProgress" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AddInErrorFault">
            <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ChangeOccured">
        <soap12:operation soapAction="http://tempuri.org/IAddInMetadata/ChangeOccured"
style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CustomBinding_IAddInMetadataInstall"
type="tns:IAddInMetadataInstall">
    <wsp:PolicyReference URI="#CustomBinding_IAddInMetadataInstall_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="CheckCredentials">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/CheckCredentials" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AddInErrorFault">
            <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="InstallAddIn">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/InstallAddIn" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="DownloadInstallAddIn">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/DownloadInstallAddIn" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UninstallAddIn">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/UninstallAddIn" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="CancelOperation">
        <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/CancelOperation" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>

```

```

    <wsdl:operation name="StartUploadAddinFile">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/StartUploadAddinFile" style="document"
/>
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AddInErrorFault">
          <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
    <wsdl:operation name="UploadAddinFile">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/UploadAddinFile" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AddInErrorFault">
          <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
    <wsdl:operation name="EndUploadAddinFile">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/EndUploadAddinFile" style="document"
/>
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AddInErrorFault">
          <soap12:fault use="literal" name="AddInErrorFault" namespace="" />
        </wsdl:fault>
      </wsdl:operation>
    <wsdl:operation name="ProgressChanged">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/ProgressChanged" style="document" />
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
    <wsdl:operation name="ErrorOccured">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/ErrorOccured" style="document" />
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
    <wsdl:operation name="RebootRequired">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/RebootRequired" style="document" />
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
    <wsdl:operation name="RestartDashboardRequired">
      <soap12:operation
soapAction="http://tempuri.org/IAddInMetadataInstall/RestartDashboardRequired"
style="document" />
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>

```

```

        </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="AddInMetadataProvider">
        <wsdl:port name="CustomBinding_IAddInMetadata"
binding="tns:CustomBinding_IAddInMetadata">
            <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.AddinInfrastructure.Add
dInMetadataProvider/Microsoft.WindowsServerSolutions.AddinInfrastructure.IAddInMetadata" />
            <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.AddinInfrastructu
re.AddInMetadataProvider/Microsoft.WindowsServerSolutions.AddinInfrastructure.IAddInMetadat
a</wsa10:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                <Dns>SERVERNAME</Dns>
            </Identity>
            </wsa10:EndpointReference>
        </wsdl:port>
        <wsdl:port name="CustomBinding_IAddInMetadataInstall"
binding="tns:CustomBinding_IAddInMetadataInstall">
            <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.AddinInfrastructure.Add
dInMetadataProvider/Microsoft.WindowsServerSolutions.AddinInfrastructure.IAddInMetadataInst
all" />
            <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.AddinInfrastructu
re.AddInMetadataProvider/Microsoft.WindowsServerSolutions.AddinInfrastructure.IAddInMetadat
aInstall</wsa10:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                <Spn>host/serverName.domain</Spn>
            </Identity>
            </wsa10:EndpointReference>
        </wsdl:port>
    </wsdl:service>
</wsdl:definitions>

```

## 6.7.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
frastructure" />
    <xs:element name="GetPackagePath">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="packageId" type="q1:guid" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetPackagePathResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="GetPackagePathResult" nillable="true"
type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```



```

        </xs:complexType>
    </xs:element>
    <xs:element name="GetAddInIds">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetAddInIdsResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="GetAddInIdsResult" nillable="true" type="q2:ReadOnlyCollectionOfguid"
/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="GetAddInInformation">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="packageId" type="q3:guid" />
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>
                    <xs:element name="GetAddInInformationResponse">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element
xmlns:q4="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins" minOccurs="0"
name="GetAddInInformationResult" nillable="true" type="q4:PackageInfo" />
                                    </xs:sequence>
                                </xs:complexType>
                            </xs:element>
                            <xs:element name="RegisterForChanges">
                                <xs:complexType>
                                    <xs:sequence>
                                        <xs:element minOccurs="0" name="server" type="xs:boolean" />
                                            </xs:sequence>
                                        </xs:complexType>
                                    </xs:element>
                                    <xs:element name="RegisterForChangesResponse">
                                        <xs:complexType>
                                            <xs:sequence />
                                        </xs:complexType>
                                    </xs:element>
                                    <xs:element name="OperationInProgress">
                                        <xs:complexType>
                                            <xs:sequence />
                                        </xs:complexType>
                                    </xs:element>
                                    <xs:element name="OperationInProgressResponse">
                                        <xs:complexType>
                                            <xs:sequence>
                                                <xs:element minOccurs="0" name="OperationInProgressResult" type="xs:boolean"
/>
                                                    </xs:sequence>
                                                </xs:complexType>
                                            </xs:element>
                                            <xs:element name="ChangeOccured">
                                                <xs:complexType>
                                                    <xs:sequence />
                                                </xs:complexType>
                                            </xs:element>
                                            <xs:element name="RedeployAddInResponse">
                                                <xs:complexType>
                                                    <xs:sequence />
                                                </xs:complexType>
                                            </xs:element>
                                        </xs:element>
                                    </xs:sequence>
                                </xs:complexType>
                            </xs:element>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```

```

<xs:element name="NewAddInVersionResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="SetAddInExpirationDateResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CheckCredentials">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="CheckCredentialsResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="InstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q10="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
minOccurs="0" name="addin" nillable="true" type="q10:Package" />
      <xs:element
xmlns:q11="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
minOccurs="0" name="installOnClients" nillable="true" type="q11:ClientInstallFilter" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DownloadInstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="address" nillable="true" type="xs:anyURI" />
      <xs:element minOccurs="0" name="certThumbprint" nillable="true"
type="xs:string" />
      <xs:element xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="expectedPackageId" type="q12:guid" />
      <xs:element
xmlns:q13="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
minOccurs="0" name="installOnClients" nillable="true" type="q13:ClientInstallFilter" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UninstallAddIn">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q14="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="id" type="q14:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CancelOperation">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="StartUploadAddinFile">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="addinId" type="q15:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="StartUploadAddinFileResponse">
  <xs:complexType>

```

```

        <xs:sequence>
          <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="StartUploadAddinFileResult" type="q16:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UploadAddinFile">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="sessionId" type="q17:guid" />
          <xs:element minOccurs="0" name="data" nillable="true" type="xs:base64Binary"
/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UploadAddinFileResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="EndUploadAddinFile">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q18="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="sessionId" type="q18:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="EndUploadAddinFileResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="ProgressChanged">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="p" type="xs:int" />
          <xs:element minOccurs="0" name="completed" type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ErrorOccured">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
frastructure" minOccurs="0" name="messageId" type="q19:AddInError" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RebootRequired">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="RestartDashboardRequired">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
  </xs:schema>

```

### 6.7.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInfrastructure>

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddInIn
frastructure" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.A
ddinInfrastructure" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="AddInError">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None" />
      <xs:enumeration value="OperationCancelled" />
      <xs:enumeration value="UnknownException" />
      <xs:enumeration value="FileNotInPackage" />
      <xs:enumeration value="InvalidSignature" />
      <xs:enumeration value="DownloadError" />
      <xs:enumeration value="PackageExtraction" />
      <xs:enumeration value="InstallError" />
      <xs:enumeration value="UpgradeError" />
      <xs:enumeration value="UnableToQueryServer" />
      <xs:enumeration value="InvalidDownloadRequest" />
      <xs:enumeration value="UninstallError" />
      <xs:enumeration value="AuthorizationError" />
      <xs:enumeration value="ProviderConnectionError" />
      <xs:enumeration value="PackageFileCopyError" />
      <xs:enumeration value="SettingsProviderError" />
      <xs:enumeration value="InvalidData" />
      <xs:enumeration value="UnknownAddIn" />
      <xs:enumeration value="OperationInProgress" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="AddInError" nillable="true" type="tns:AddInError" />
  <xs:simpleType name="OSEditions">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="NotSet">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="Home">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="Pro">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="Starter">
            <xs:annotation>

```

```

        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="MediaCenter">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="OSEditions" nillable="true" type="tns:OSEditions" />
</xs:schema>

```

## 6.7.4 http://schemas.microsoft.com/2003/10/Serialization/Arrays

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
</xs:schema>

```

## 6.7.5 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />

```

```

<xs:element name="short" nillable="true" type="xs:short" />
<xs:element name="string" nillable="true" type="xs:string" />
<xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
<xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
<xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
<xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
<xs:element name="char" nillable="true" type="tns:char" />
<xs:simpleType name="char">
  <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

## 6.7.6 <http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:tns="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/WindowsServerSolutions/2010/03/Addins"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
    namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
  frastructure" />
  <xs:complexType name="PackageInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="Company" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="ExpirationDateUtc" type="xs:dateTime" />
      <xs:element minOccurs="0" name="Filter" nillable="true"
    type="tns:ClientInstallFilter" />
      <xs:element minOccurs="0" name="Install" type="xs:boolean" />
      <xs:element minOccurs="0" name="InstallDateUtc" type="xs:dateTime" />
      <xs:element minOccurs="0" name="LastRedeployDate" type="xs:dateTime" />
      <xs:element minOccurs="0" name="Package" nillable="true" type="tns:Package" />
      <xs:element minOccurs="0" name="RenewalUri" nillable="true" type="xs:anyURI" />
      <xs:element minOccurs="0" name="UpdateType" type="tns:UpdateClassification" />
      <xs:element minOccurs="0" name="UpdateUri" nillable="true" type="xs:anyURI" />
      <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System"
    minOccurs="0" name="UpdateVersion" nillable="true" type="q1:Version" />
      <xs:element xmlns:q2="http://schemas.datacontract.org/2004/07/System"
    minOccurs="0" name="VersionOnServer" nillable="true" type="q2:Version" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="PackageInfo" nillable="true" type="tns:PackageInfo" />

```

```

    <xs:complexType name="ClientInstallFilter">
      <xs:sequence>
        <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="clientSidList" nillable="true" type="q3:ArrayOfstring" />
        <xs:element minOccurs="0" name="listIsMachinesToInclude" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ClientInstallFilter" nillable="true"
type="tns:ClientInstallFilter" />
    <xs:complexType name="Package">
      <xs:sequence>
        <xs:element name="Id" type="ser:guid" />
        <xs:element name="Version" nillable="true" type="xs:string" />
        <xs:element name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Allow32BitOn64BitClients" type="xs:boolean" />
        <xs:element minOccurs="0" name="ServerBinary" nillable="true"
type="tns:BinaryCollection" />
        <xs:element minOccurs="0" name="ClientBinary32" nillable="true"
type="tns:BinaryCollection" />
        <xs:element minOccurs="0" name="ClientBinary64" nillable="true"
type="tns:BinaryCollection" />
        <xs:element minOccurs="0" name="SupportedSkus" nillable="true"
type="tns:SkuCollection" />
        <xs:element minOccurs="0" name="SupportUrl" nillable="true" type="xs:anyURI" />
        <xs:element minOccurs="0" name="Location" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="PrivacyStatement" nillable="true"
type="xs:anyURI" />
        <xs:element minOccurs="0" name="OtherBinaries" nillable="true"
type="tns:OtherBinariesMap" />
        <xs:element minOccurs="0" name="Preinstall" nillable="true"
type="tns:Preinstall" />
        <xs:element minOccurs="0" name="UninstallConfirm" nillable="true"
type="tns:UninstallConfirm" />
        <xs:element minOccurs="0" name="ShowSupplementalNotice" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="Package" nillable="true" type="tns:Package" />
    <xs:complexType name="BinaryCollection">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="File" nillable="true"
type="tns:BinaryReference" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="BinaryCollection" nillable="true" type="tns:BinaryCollection" />
    <xs:complexType name="BinaryReference">
      <xs:sequence>
        <xs:element name="ProductCode" type="ser:guid" />
        <xs:element name="Version" nillable="true" type="xs:string" />
        <xs:element name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Filter" nillable="true" type="tns:Filter" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="BinaryReference" nillable="true" type="tns:BinaryReference" />
    <xs:complexType name="Filter">
      <xs:sequence>
        <xs:element minOccurs="0" name="MinOSVersion" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="MaxOSVersion" nillable="true" type="xs:string"
/>
        <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinInf
rastructure" minOccurs="0" name="OSEdition" type="q4:OSEditions" />
        <xs:element minOccurs="0" name="Language" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="IsLanguageFallback" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="Filter" nillable="true" type="tns:Filter" />
    <xs:complexType name="SkuCollection">

```

```

        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="Sku" nillable="true"
type="xs:string" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="SkuCollection" nillable="true" type="tns:SkuCollection" />
      <xs:complexType name="OtherBinariesMap">
        <xs:annotation>
          <xs:appinfo>
            <IsDictionary
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsDictionary>
          </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="Item">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="Target" nillable="true" type="xs:string" />
                <xs:element name="FileName" nillable="true" type="xs:string" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="OtherBinariesMap" nillable="true" type="tns:OtherBinariesMap" />
      <xs:complexType name="Preinstall">
        <xs:sequence>
          <xs:element name="Executable" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="NormalArgs" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="SilentArgs" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="IgnoreExitCode" type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="Preinstall" nillable="true" type="tns:Preinstall" />
      <xs:complexType name="UninstallConfirm">
        <xs:sequence>
          <xs:element name="Executable" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="Arguments" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
      <xs:element name="UninstallConfirm" nillable="true" type="tns:UninstallConfirm" />
      <xs:simpleType name="UpdateClassification">
        <xs:restriction base="xs:string">
          <xs:enumeration value="Unknown" />
          <xs:enumeration value="CriticalUpate" />
          <xs:enumeration value="ImportantUpdate" />
          <xs:enumeration value="Update" />
        </xs:restriction>
      </xs:simpleType>
      <xs:element name="UpdateClassification" nillable="true"
type="tns:UpdateClassification" />
    </xs:schema>

```

## 6.7.7 <http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="ReadOnlyCollectionOfguid">
    <xs:annotation>
      <xs:appinfo>

```



```

        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
        <GenericParameter Name="guid"
Namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        </GenericType>
        </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="list" nillable="true" type="q1:ArrayOfguid" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ReadOnlyCollectionOfguid" nillable="true"
type="tns:ReadOnlyCollectionOfguid" />
</xs:schema>

```

## 6.7.8 http://schemas.datacontract.org/2004/07/System

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="Version">
        <xs:sequence>
            <xs:element name="Build" type="xs:int" />
            <xs:element name="_Major" type="xs:int" />
            <xs:element name="_Minor" type="xs:int" />
            <xs:element name="_Revision" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="Version" nillable="true" type="tns:Version" />
</xs:schema>

```

## 6.8 Network Service WSDL

### 6.8.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="NetworkingServiceWcfWrapper"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsp:Policy wsu:Id="CustomBinding INetworkingService policy">
        <wsp:ExactlyOne>
            <wsp>All>
                <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
                <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                    <wsp:Policy>
                        <sp:TransportToken>
                            <wsp:Policy>

```

```

        <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
        <msf:RequireClientCertificate />
        </msf:SslTransportSecurity>
    </wsp:Policy>
</sp:TransportToken>
<sp:AlgorithmSuite>
    <wsp:Policy>
        <sp:Basic256 />
    </wsp:Policy>
</sp:AlgorithmSuite>
<sp:Layout>
    <wsp:Policy>
        <sp:Strict />
    </wsp:Policy>
</sp:Layout>
</wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp>All>
</wsp:ExactlyOne>
</wsp:Policy>
<wSDL:types>
    <xsd:schema targetNamespace="http://tempuri.org/Imports">
        <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Networking" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    </xsd:schema>
</wSDL:types>
<wSDL:message name="INetworkingService Ping InputMessage">
    <wSDL:part name="parameters" element="tns:Ping" />
</wSDL:message>
<wSDL:message name="INetworkingService Ping OutputMessage">
    <wSDL:part name="parameters" element="tns:PingResponse" />
</wSDL:message>
<wSDL:message name="INetworkingService GetVPNServerSetting InputMessage">
    <wSDL:part name="parameters" element="tns:GetVPNServerSetting" />
</wSDL:message>
<wSDL:message name="INetworkingService GetVPNServerSetting OutputMessage">
    <wSDL:part name="parameters" element="tns:GetVPNServerSettingResponse" />
</wSDL:message>
<wSDL:message name="INetworkingService GetVirtualNetworkSettings InputMessage">
    <wSDL:part name="parameters" element="tns:GetVirtualNetworkSettings" />
</wSDL:message>
<wSDL:message name="INetworkingService GetVirtualNetworkSettings OutputMessage">
    <wSDL:part name="parameters" element="tns:GetVirtualNetworkSettingsResponse" />
</wSDL:message>
<wSDL:portType name="INetworkingService">
    <wSDL:operation name="Ping">
        <wSDL:input wsaw:Action="http://tempuri.org/INetworkingService/Ping"
message="tns:INetworkingService Ping InputMessage" />
        <wSDL:output wsaw:Action="http://tempuri.org/INetworkingService/PingResponse"
message="tns:INetworkingService Ping OutputMessage" />
    </wSDL:operation>
    <wSDL:operation name="GetVPNServerSetting">

```

```

        <wsdl:input
wsaw:Action="http://tempuri.org/INetworkingService/GetVPNServerSetting"
message="tns:INetworkingService_GetVPNServerSetting_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/INetworkingService/GetVPNServerSettingResponse"
message="tns:INetworkingService_GetVPNServerSetting_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetVirtualNetworkSettings">
        <wsdl:input
wsaw:Action="http://tempuri.org/INetworkingService/GetVirtualNetworkSettings"
message="tns:INetworkingService_GetVirtualNetworkSettings_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/INetworkingService/GetVirtualNetworkSettingsResponse"
message="tns:INetworkingService_GetVirtualNetworkSettings_OutputMessage" />
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding INetworkingService" type="tns:INetworkingService">
    <wsp:PolicyReference URI="#CustomBinding_INetworkingService_policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="Ping">
        <soap12:operation soapAction="http://tempuri.org/INetworkingService/Ping"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetVPNServerSetting">
        <soap12:operation
soapAction="http://tempuri.org/INetworkingService/GetVPNServerSetting" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetVirtualNetworkSettings">
        <soap12:operation
soapAction="http://tempuri.org/INetworkingService/GetVirtualNetworkSettings"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:service name="NetworkingServiceWcfWrapper">
    <wsdl:port name="CustomBinding_INetworkingService"
binding="tns:CustomBinding_INetworkingService">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.NetworkingProvider (INE
tworkingService)/Microsoft.WindowsServerSolutions.Networking.INetworkingService" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.NetworkingProvide
r (INetworkingService)/Microsoft.WindowsServerSolutions.Networking.INetworkingService</wsa10
:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                <Dns>SERVERNAME</Dns>
            </Identity>
        </wsa10:EndpointReference>
    </wsdl:port>
</wsdl:service>

```

```
</wsdl:definitions>
```

## 6.8.2 http://tempuri.org

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteA
ccess" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Network
ing" />
  <xs:element name="Ping">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="PingResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetVPNServerSetting">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetVPNServerSettingResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess" minOccurs="0" name="GetVPNServerSettingResult" nillable="true" type="q1:VPNSetting"
/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="GetVirtualNetworkSettings">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetVirtualNetworkSettingsResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Networki
ng" minOccurs="0" name="GetVirtualNetworkSettingsResult" nillable="true"
type="q2:VirtualNetworkSettings" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

## 6.8.3 http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Networking

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Network
ing" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.N
etworking" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xs:complexType name="VirtualNetworkSettings">
        <xs:sequence>
            <xs:element minOccurs="0" name="Enabled" type="xs:boolean" />
            <xs:element minOccurs="0" name="VirtualNetworkAddressPrefixes" nillable="true"
type="tns:ArrayOfAddressPrefix" />
            <xs:element minOccurs="0" name="VpnDeviceName" nillable="true" type="xs:string"
/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="VirtualNetworkSettings" nillable="true"
type="tns:VirtualNetworkSettings" />
    <xs:complexType name="ArrayOfAddressPrefix">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="AddressPrefix"
nillable="true" type="tns:AddressPrefix" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfAddressPrefix" nillable="true"
type="tns:ArrayOfAddressPrefix" />
    <xs:complexType name="AddressPrefix">
        <xs:sequence>
            <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="Address" nillable="true" type="q1:IPAddress" />
            <xs:element minOccurs="0" name="PrefixLength" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="AddressPrefix" nillable="true" type="tns:AddressPrefix" />
</xs:schema>

```

#### 6.8.4 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="VPNSetting">
        <xs:sequence>
            <xs:element minOccurs="0" name="ConnectionName" nillable="true" type="xs:string"
/>
            <xs:element minOccurs="0" name="InternetAddress" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="IntranetDnsSuffix" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="ServerPrepared" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="VPNSetting" nillable="true" type="tns:VPNSetting" />
</xs:schema>

```

#### 6.8.5 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="ArrayOfunsignedShort">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedShort"
type="xs:unsignedShort" />
        </xs:sequence>
    </xs:complexType>

```

```

    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedShort" nillable="true"
type="tns:ArrayOfunsignedShort" />
</xs:schema>

```

## 6.8.6 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

## 6.8.7 <http://schemas.datacontract.org/2004/07/System.Net.Sockets>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="AddressFamily">

```

```

    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">-1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Unspecified">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Unix">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="InterNetwork">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="ImpLink">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Pup">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Chaos">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="NS">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Ipx">
        <xs:annotation>
          <xs:appinfo>

```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Iso">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Osi">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Ecma">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DataKit">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Ccitt">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Sna">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DecNet">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DataLink">
    <xs:annotation>
        <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
        </xs:appinfo>
    </xs:annotation>
</xs:enumeration>

```



```

    <xs:enumeration value="Lat">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="HyperChannel">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="AppleTalk">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NetBios">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="VoiceView">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">18</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="FireFox">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">19</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Banyan">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">21</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Atm">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InterNetworkV6">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>

```

```

        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Cluster">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ieee12844">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">25</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Irda">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">26</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NetworkDesigners">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Max">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
  </xs:restriction>
</xs:simpleType>
  <xs:element name="AddressFamily" nillable="true" type="tns:AddressFamily" />
</xs:schema>

```

### 6.8.8 <http://schemas.datacontract.org/2004/07/System.Net>

```

  <?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net"
    elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System.Net"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:complexType name="IPAddress">
      <xs:sequence>
        <xs:element name="m_Address" type="xs:long" />
        <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net.Sockets" name="m_Family"
type="q1:AddressFamily" />
        <xs:element name="m_HashCode" type="xs:int" />

```

```

        <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="m_Numbers" nillable="true" type="q2:ArrayOfunsignedShort" />
        <xs:element name="m_ScopeId" type="xs:long" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="IPAddress" nillable="true" type="tns:IPAddress" />
</xs:schema>

```

## 6.9 Domain Infrastructure Service WSDL

### 6.9.1 wsdl

```

<?xml version="1.0" encoding="utf-8"?>
    <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="DomainProviderManager"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
        <wsp:Policy wsu:Id="CustomBinding IDomainMaintenanceManager policy">
            <wsp:ExactlyOne>
                <wsp>All>
                    <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
                    <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                        <wsp:Policy>
                            <sp:TransportToken>
                                <wsp:Policy>
                                    <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                                        <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                                    </msf:WindowsTransportSecurity>
                                </wsp:Policy>
                            </sp:TransportToken>
                            <sp:AlgorithmSuite>
                                <wsp:Policy>
                                    <sp:Basic256 />
                                </wsp:Policy>
                            </sp:AlgorithmSuite>
                            <sp:Layout>
                                <wsp:Policy>
                                    <sp:Strict />
                                </wsp:Policy>
                            </sp:Layout>
                        </wsp:Policy>
                    </sp:TransportBinding>
                    <wsaw:UsingAddressing />
                </wsp>All>
            </wsp:ExactlyOne>
        </wsp:Policy>
    <wsdl:types>
        <xsd:schema targetNamespace="http://tempuri.org/Imports">
            <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
            <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteA
ccess.Domains" />
            <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />

```

```

        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
    </xsd:schema>
</wsdl:types>
<wsdl:message name="IDomainMaintenanceManager_SetCredentials_InputMessage">
    <wsdl:part name="parameters" element="tns:SetCredentials" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_SetCredentials_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetCredentialsResponse" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_SetCredentials_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" name="detail" element="q1:DomainManagerFault" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_ValidateCredentials_InputMessage">
    <wsdl:part name="parameters" element="tns:ValidateCredentials" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_ValidateCredentials_OutputMessage">
    <wsdl:part name="parameters" element="tns:ValidateCredentialsResponse" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_ValidateCredentials_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" name="detail" element="q2:DomainManagerFault" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_UpdateDnsRecords_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateDnsRecords" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_UpdateDnsRecords_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateDnsRecordsResponse" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_UpdateDnsRecords_ArgumentExceptionFault_FaultMessage">
    <wsdl:part xmlns:q3="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q3:ArgumentException" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_UpdateDnsRecords_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" name="detail" element="q4:DomainManagerFault" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromDNS_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryAddressFromDNS" />
</wsdl:message>
<wsdl:message name="IDomainMaintenanceManager_QueryAddressFromDNS_OutputMessage">
    <wsdl:part name="parameters" element="tns:QueryAddressFromDNSResponse" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_QueryAddressFromDNS_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" name="detail" element="q5:DomainManagerFault" />
</wsdl:message>
<wsdl:message
name="IDomainMaintenanceManager_QueryAddressFromProvider_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryAddressFromProvider" />
</wsdl:message>

```

```

    <wsdl:message
name="IDomainMaintenanceManager_QueryAddressFromProvider_OutputMessage">
    <wsdl:part name="parameters" element="tns:QueryAddressFromProviderResponse" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_QueryAddressFromProvider_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" name="detail" element="q6:DomainManagerFault" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_TestConnection_InputMessage">
    <wsdl:part name="parameters" element="tns:TestConnection" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_TestConnection_OutputMessage">
    <wsdl:part name="parameters" element="tns:TestConnectionResponse" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_TestConnection_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" name="detail" element="q7:DomainManagerFault" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetDomainState_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDomainState" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetDomainState_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDomainStateResponse" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_GetDomainState_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" name="detail" element="q8:DomainManagerFault" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetCertificateState_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCertificateState" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetCertificateState_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCertificateStateResponse" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_GetCertificateState_DomainManagerFaultFault_FaultMessage">
    <wsdl:part
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" name="detail" element="q9:DomainManagerFault" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_GetDomainNameConfiguration_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDomainNameConfiguration" />
    </wsdl:message>
    <wsdl:message
name="IDomainMaintenanceManager_GetDomainNameConfiguration_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDomainNameConfigurationResponse" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetDynamicDNSInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDynamicDNSInfo" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetDynamicDNSInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDynamicDNSInfoResponse" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetSettings_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSettings" />
    </wsdl:message>
    <wsdl:message name="IDomainMaintenanceManager_GetSettings_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSettingsResponse" />
    </wsdl:message>
    <wsdl:portType name="IDomainMaintenanceManager">
    <wsdl:operation name="SetCredentials">

```

```

        <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentials"
message="tns:IDomainMaintenanceManager_SetCredentials_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentialsResponse"
message="tns:IDomainMaintenanceManager_SetCredentials_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/SetCredentialsDomainManagerFaultF
ault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_SetCredentials_DomainManagerFaultFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="ValidateCredentials">
        <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentials"
message="tns:IDomainMaintenanceManager_ValidateCredentials_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentialsResponse"
message="tns:IDomainMaintenanceManager_ValidateCredentials_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentialsDomainManagerF
aultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_ValidateCredentials_DomainManagerFaultFault_FaultMes
sage" />
    </wsdl:operation>
    <wsdl:operation name="UpdateDnsRecords">
        <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecords"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsResponse"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsArgumentException
Fault" name="ArgumentExceptionFault"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_ArgumentExceptionFault_FaultMessage
" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsDomainManagerFaul
tFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_DomainManagerFaultFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="QueryAddressFromDNS">
        <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNS"
message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNSResponse"
message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNSDomainManagerF
aultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_DomainManagerFaultFault_FaultMes
sage" />
    </wsdl:operation>
    <wsdl:operation name="QueryAddressFromProvider">
        <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProvider"
message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderResponse"
message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderDomainMan
agerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_DomainManagerFaultFault_Fau
ltMessage" />
    </wsdl:operation>

```

```

        <wsdl:operation name="TestConnection">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnection"
message="tns:IDomainMaintenanceManager_TestConnection_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnectionResponse"
message="tns:IDomainMaintenanceManager_TestConnection_OutputMessage" />
            <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/TestConnectionDomainManagerFaultF
ault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_TestConnection_DomainManagerFaultFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="GetDomainState">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainState"
message="tns:IDomainMaintenanceManager_GetDomainState_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainStateResponse"
message="tns:IDomainMaintenanceManager_GetDomainState_OutputMessage" />
            <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainStateDomainManagerFaultF
ault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetDomainState_DomainManagerFaultFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="GetCertificateState">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateState"
message="tns:IDomainMaintenanceManager_GetCertificateState_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateStateResponse"
message="tns:IDomainMaintenanceManager_GetCertificateState_OutputMessage" />
            <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetCertificateStateDomainManagerF
aultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetCertificateState_DomainManagerFaultFault_FaultMes
sage" />
        </wsdl:operation>
        <wsdl:operation name="GetDomainNameConfiguration">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfiguration"
message="tns:IDomainMaintenanceManager_GetDomainNameConfiguration_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfigurationRespons
e" message="tns:IDomainMaintenanceManager_GetDomainNameConfiguration_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetDynamicDNSInfo">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfo"
message="tns:IDomainMaintenanceManager_GetDynamicDNSInfo_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfoResponse"
message="tns:IDomainMaintenanceManager_GetDynamicDNSInfo_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetSettings">
            <wsdl:input
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetSettings"
message="tns:IDomainMaintenanceManager_GetSettings_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/GetSettingsResponse"
message="tns:IDomainMaintenanceManager_GetSettings_OutputMessage" />
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding IDomainMaintenanceManager"
type="tns:IDomainMaintenanceManager">
        <wsp:PolicyReference URI="#CustomBinding_IDomainMaintenanceManager_policy" />
        <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
        <wsdl:operation name="SetCredentials">

```

```

        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/SetCredentials" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="DomainManagerFaultFault">
            <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ValidateCredentials">
        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/ValidateCredentials"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="DomainManagerFaultFault">
            <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="UpdateDnsRecords">
        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecords" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="ArgumentExceptionFault">
            <soap12:fault use="literal" name="ArgumentExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="DomainManagerFaultFault">
            <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="QueryAddressFromDNS">
        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromDNS"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="DomainManagerFaultFault">
            <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="QueryAddressFromProvider">
        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProvider"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="DomainManagerFaultFault">

```



```

        <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="TestConnection">
    <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/TestConnection" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="DomainManagerFaultFault">
        <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDomainState">
    <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/GetDomainState" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="DomainManagerFaultFault">
        <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetCertificateState">
    <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/GetCertificateState"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="DomainManagerFaultFault">
        <soap12:fault use="literal" name="DomainManagerFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetDomainNameConfiguration">
    <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/GetDomainNameConfiguration"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetDynamicDNSInfo">
    <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/GetDynamicDNSInfo"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSettings">

```

```

        <soap12:operation
soapAction="http://tempuri.org/IDomainMaintenanceManager/GetSettings" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
    <wsdl:service name="DomainProviderManager">
        <wsdl:port name="CustomBinding_IDomainMaintenanceManager"
binding="tns:CustomBinding_IDomainMaintenanceManager">
            <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.DomainProviderManager/
Microsoft.WindowsServerSolutions.RemoteAccess.Domains.IDomainMaintenanceManager" />
                <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.DomainProviderMan
ager/Microsoft.WindowsServerSolutions.RemoteAccess.Domains.IDomainMaintenanceManager</wsa10
:Address>
                    <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
                        <Spn>host/serverName.domain</Spn>
                    </Identity>
                </wsa10:EndpointReference>
            </wsdl:port>
        </wsdl:service>
    </wsdl:definitions>

```

## 6.9.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteA
ccess.Domains" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xs:element name="SetCredentials">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" minOccurs="0" name="credentials" nillable="true"
type="q1:DomainProviderCredentials" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="SetCredentialsResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="SetCredentialsResult" type="xs:boolean" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="ValidateCredentials">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="ValidateCredentialsResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="ValidateCredentialsResult" type="xs:boolean"
/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>

```

```

        </xs:complexType>
    </xs:element>
    <xs:element name="UpdateDnsRecords">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" minOccurs="0" name="records" nillable="true" type="q2:ArrayOfDnsRecord" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="UpdateDnsRecordsResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" name="UpdateDnsRecordsResult" type="xs:boolean" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="QueryAddressFromDNS">
            <xs:complexType>
                <xs:sequence />
            </xs:complexType>
        </xs:element>
        <xs:element name="QueryAddressFromDNSResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element xmlns:q3="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="QueryAddressFromDNSResult" nillable="true" type="q3:IPAddress" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="QueryAddressFromProvider">
            <xs:complexType>
                <xs:sequence />
            </xs:complexType>
        </xs:element>
        <xs:element name="QueryAddressFromProviderResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="QueryAddressFromProviderResult" nillable="true" type="q4:IPAddress" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="TestConnection">
            <xs:complexType>
                <xs:sequence />
            </xs:complexType>
        </xs:element>
        <xs:element name="TestConnectionResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element minOccurs="0" name="TestConnectionResult" type="xs:boolean" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="GetDomainState">
            <xs:complexType>
                <xs:sequence />
            </xs:complexType>
        </xs:element>
        <xs:element name="GetDomainStateResponse">
            <xs:complexType>
                <xs:sequence>
                    <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.Domains" minOccurs="0" name="GetDomainStateResult" nillable="true"
type="q5:DomainState" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:sequence>

```

```

        </xs:complexType>
    </xs:element>
    <xs:element name="GetCertificateState">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetCertificateStateResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" minOccurs="0" name="GetCertificateStateResult" nillable="true"
type="q6:CertificateState" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    <xs:element name="GetDomainNameConfiguration">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetDomainNameConfigurationResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" minOccurs="0" name="GetDomainNameConfigurationResult" nillable="true"
type="q7:DomainNameConfiguration" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    <xs:element name="GetDynamicDNSInfo">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetDynamicDNSInfoResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" minOccurs="0" name="GetDynamicDNSInfoResult" nillable="true"
type="q8:DynamicDNSInfo" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    <xs:element name="GetSettings">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
    <xs:element name="GetSettingsResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" minOccurs="0" name="GetSettingsResult" nillable="true"
type="q9:DomainProviderManagerSettings" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
    </xs:schema>

```

### 6.9.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains>

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
    xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import schemaLocation=""
      namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xs:import schemaLocation=""
      namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
    <xs:complexType name="DomainProviderCredentials">
      <xs:sequence>
        <xs:element minOccurs="0" name="AccessToken" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Password" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="DomainProviderCredentials" nillable="true"
      type="tns:DomainProviderCredentials" />
    <xs:complexType name="DomainManagerFault">
      <xs:sequence>
        <xs:element minOccurs="0" name="Detail" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Reason" type="tns:FailureReason" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="DomainManagerFault" nillable="true" type="tns:DomainManagerFault" />
    <xs:simpleType name="FailureReason">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Unknown" />
        <xs:enumeration value="InvalidCredentials" />
        <xs:enumeration value="InvalidDomainName" />
        <xs:enumeration value="QuotaExceeded" />
        <xs:enumeration value="PurchaseNotStarted" />
        <xs:enumeration value="PurchaseFailed" />
        <xs:enumeration value="PendingCustomerInterventionRequired" />
        <xs:enumeration value="InRenewalCustomerInterventionRequired" />
        <xs:enumeration value="RenewalFailed" />
        <xs:enumeration value="RemoteProviderFailure" />
        <xs:enumeration value="CommunicationFailure" />
        <xs:enumeration value="LocalProviderFailure" />
        <xs:enumeration value="CertificateInstallFailure" />
        <xs:enumeration value="CertificateFileBroken" />
        <xs:enumeration value="CertificateNotTrusted" />
        <xs:enumeration value="CertificateBeforeValidPeriod" />
        <xs:enumeration value="CertificateNoPrivateKey" />
        <xs:enumeration value="CertificateFileBrokenOrPasswordWrong" />
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="FailureReason" nillable="true" type="tns:FailureReason" />
    <xs:complexType name="ArrayOfDnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DnsRecord" nillable="true"
          type="tns:DnsRecord" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfDnsRecord" nillable="true" type="tns:ArrayOfDnsRecord" />
    <xs:complexType name="DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Label" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="TimeToLive" type="ser:duration" />
      </xs:sequence>
    </xs:complexType>
  </xs:schema>
```

```

<xs:element name="DnsRecord" nillable="true" type="tns:DnsRecord" />
<xs:complexType name="ARecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="Address" nillable="true" type="q1:IPAddress" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ARecord" nillable="true" type="tns:ARecord" />
<xs:complexType name="MXRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="MailExchange" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="MailExchangePreference" type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="MXRecord" nillable="true" type="tns:MXRecord" />
<xs:complexType name="SrvRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Port" type="xs:int" />
        <xs:element minOccurs="0" name="Priority" type="xs:int" />
        <xs:element minOccurs="0" name="Protocol" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="Service" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Target" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Weight" type="xs:int" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="SrvRecord" nillable="true" type="tns:SrvRecord" />
<xs:complexType name="TxtRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="TxtRecord" nillable="true" type="tns:TxtRecord" />
<xs:complexType name="CNameRecord">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="CanonicalName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="CNameRecord" nillable="true" type="tns:CNameRecord" />
<xs:complexType name="DomainState">
  <xs:sequence>
    <xs:element minOccurs="0" name="ExpirationDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Status" type="tns:DomainStatus" />
    <xs:element minOccurs="0" name="StatusDescription" nillable="true"
type="xs:string" />
  </xs:sequence>
</xs:complexType>

```

```

<xs:element name="DomainState" nillable="true" type="tns:DomainState" />
<xs:simpleType name="DomainStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unknown" />
    <xs:enumeration value="NotConfigured">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ready">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Pending">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PendingCustomerInterventionRequired">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Failed">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="PurchaseFailed">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DomainNotFound">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InRenewal">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InRenewalCustomerInterventionRequired">

```

```

        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="RenewalFailed">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="DomainStatus" nillable="true" type="tns:DomainStatus" />
  <xs:complexType name="CertificateState">
    <xs:sequence>
      <xs:element minOccurs="0" name="Status" type="tns:CertificateStatus" />
      <xs:element minOccurs="0" name="StatusDescription" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="CertificateState" nillable="true" type="tns:CertificateState" />
  <xs:simpleType name="CertificateStatus">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown" />
      <xs:enumeration value="Ready" />
      <xs:enumeration value="Failed" />
      <xs:enumeration value="CertificateRequestNotSubmitted" />
      <xs:enumeration value="Pending" />
      <xs:enumeration value="PendingCustomerInterventionRequired" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="CertificateStatus" nillable="true" type="tns:CertificateStatus" />
  <xs:complexType name="DomainNameConfiguration">
    <xs:sequence>
      <xs:element minOccurs="0" name="AccountName" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="AutoConfiguredAnywhereAccessHostName"
type="tns:Idn" />
      <xs:element minOccurs="0" name="AutoConfiguredInternetDomainFullName"
type="tns:Idn" />
      <xs:element minOccurs="0" name="CertificateRenewInProgress" type="xs:boolean" />
      <xs:element minOccurs="0" name="CertificateRenewStatus"
type="tns:CertificateStatus" />
      <xs:element minOccurs="0" name="CertificateStatus" type="tns:CertificateStatus"
/>
      <xs:element minOccurs="0" name="CertificateStatusDescription" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="DomainStatus" type="tns:DomainStatus" />
      <xs:element minOccurs="0" name="DomainStatusDescription" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="ExpirationDate" type="xs:dateTime" />
      <xs:element minOccurs="0" name="ManualModeEnabled" type="xs:boolean" />
      <xs:element minOccurs="0" name="ManuallyConfiguredAnywhereAccessFullName"
type="tns:Idn" />
      <xs:element minOccurs="0" name="Offering" nillable="true" type="tns:Offering" />
      <xs:element minOccurs="0" name="ProviderID" type="ser:guid" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="DomainNameConfiguration" nillable="true"
type="tns:DomainNameConfiguration" />
  <xs:complexType name="Idn">
    <xs:annotation>
      <xs:appinfo>
        <IsValueType
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsValueType>

```



```

        </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
        <xs:element minOccurs="0" name="_origin" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="_punycode" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="unicode" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="Idn" nillable="true" type="tns:Idn" />
<xs:complexType name="Offering">
    <xs:sequence>
        <xs:element minOccurs="0" name="AccountManagementUrl" nillable="true"
type="xs:anyURI" />
        <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="AdditionalSites" nillable="true" type="q2:ReadOnlyCollectionOfanyURI"
/>
        <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="EulaUrl" nillable="true" type="xs:anyURI" />
        <xs:element minOccurs="0" name="Icon" nillable="true" type="xs:base64Binary" />
        <xs:element minOccurs="0" name="MembershipServiceName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="MembershipServiceSignupUrl" nillable="true"
type="xs:anyURI" />
        <xs:element minOccurs="0" name="MoreInfoUrl" nillable="true" type="xs:anyURI" />
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="ProviderID" type="ser:guid" />
        <xs:element minOccurs="0" name="SupportedDomainType" type="tns:DomainType" />
        <xs:element minOccurs="0" name="TroubleshootingUrl" nillable="true"
type="xs:anyURI" />
    </xs:sequence>
</xs:complexType>
<xs:element name="Offering" nillable="true" type="tns:Offering" />
<xs:simpleType name="DomainType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Home" />
        <xs:enumeration value="Business" />
        <xs:enumeration value="All" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="DomainType" nillable="true" type="tns:DomainType" />
<xs:complexType name="DynamicDNSInfo">
    <xs:sequence>
        <xs:element minOccurs="0" name="FailedDNSUpdateAttempts" type="xs:int" />
        <xs:element minOccurs="0" name="LastSuccessfulDNSUpdate" type="xs:dateTime" />
        <xs:element xmlns:q3="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="LastUpdatedIPAddress" nillable="true" type="q3:IPAddress" />
    </xs:sequence>
</xs:complexType>
<xs:element name="DynamicDNSInfo" nillable="true" type="tns:DynamicDNSInfo" />
<xs:complexType name="DomainProviderManagerSettings">
    <xs:sequence>
        <xs:element minOccurs="0" name="BypassProxyForLocalAddresses" type="xs:boolean"
/>
        <xs:element minOccurs="0" name="DNSUpdateInterval" type="ser:duration" />
        <xs:element minOccurs="0" name="DomainStatusQueryInterval" type="ser:duration"
/>
        <xs:element minOccurs="0" name="Environment"
type="tns:DomainProviderEnvironment" />
        <xs:element minOccurs="0" name="Proxy" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="DomainProviderManagerSettings" nillable="true"
type="tns:DomainProviderManagerSettings" />
<xs:simpleType name="DomainProviderEnvironment">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Testing" />
        <xs:enumeration value="Production" />
    </xs:restriction>

```

```

    </xs:restriction>
  </xs:simpleType>
  <xs:element name="DomainProviderEnvironment" nillable="true"
type="tns:DomainProviderEnvironment" />
</xs:schema>

```

## 6.9.4 http://schemas.microsoft.com/2003/10/Serialization/Arrays

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfunsignedShort">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedShort"
type="xs:unsignedShort" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedShort" nillable="true"
type="tns:ArrayOfunsignedShort" />
  <xs:complexType name="ArrayOfanyURI">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="anyURI" nillable="true"
type="xs:anyURI" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfanyURI" nillable="true" type="tns:ArrayOfanyURI" />
</xs:schema>

```

## 6.9.5 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns:duration" />
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
  </xs:simpleType>

```

```

    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns:guid" />
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName" />
  <xs:attribute name="Id" type="xs:ID" />
  <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

## 6.9.6 <http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="ReadOnlyCollectionOfanyURI">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
  Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="anyURI" Namespace="http://www.w3.org/2001/XMLSchema"
  />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  name="list" nillable="true" type="q1:ArrayOfanyURI" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOfanyURI" nillable="true"
  type="tns:ReadOnlyCollectionOfanyURI" />
</xs:schema>

```

## 6.9.7 <http://schemas.datacontract.org/2004/07/System.Net.Sockets>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:import schemaLocation=""
  namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:simpleType name="AddressFamily">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown">
        <xs:annotation>
          <xs:appinfo>
            <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">-1</EnumerationValue>
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="Unspecified">
        <xs:annotation>

```

```

        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Unix">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InterNetwork">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="ImpLink">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Pup">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Chaos">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NS">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ipx">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Iso">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>

```

```

    </xs:enumeration>
    <xs:enumeration value="Osi">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ecma">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DataKit">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ccitt">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Sna">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DecNet">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DataLink">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Lat">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="HyperChannel">
      <xs:annotation>
        <xs:appinfo>

```

```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="AppleTalk">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="NetBios">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="VoiceView">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">18</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="FireFox">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">19</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Banyan">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">21</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Atm">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="InterNetworkV6">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="Cluster">
    <xs:annotation>
    <xs:appinfo>
        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
    </xs:appinfo>
</xs:annotation>
</xs:enumeration>

```

```

        <xs:enumeration value="Ieee12844">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">25</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Irda">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">26</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="NetworkDesigners">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Max">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="AddressFamily" nillable="true" type="tns:AddressFamily" />
  </xs:schema>

```

## 6.9.8 <http://schemas.datacontract.org/2004/07/System.Net>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Net"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="IPAddress">
    <xs:sequence>
      <xs:element name="m_Address" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="m_Family" type="tns:AddressFamily" />
  <xs:element name="m_HashCode" type="xs:int" />
  <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="m_Numbers" nillable="true" type="q2:ArrayOfunsignedShort" />
  <xs:element name="m_ScopeId" type="xs:long" />
  <xs:element name="IPAddress" nillable="true" type="tns:IPAddress" />
</xs:schema>

```

## 6.9.9 http://schemas.datacontract.org/2004/07/System

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
    xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="ArgumentException">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:SystemException" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="ArgumentException" nillable="true" type="tns:ArgumentException" />
    <xs:complexType name="SystemException">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:Exception" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
    <xs:complexType name="Exception">
      <xs:sequence>
        <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
          processContents="skip" />
      </xs:sequence>
      <xs:attribute ref="ser:FactoryType" />
    </xs:complexType>
    <xs:element name="Exception" nillable="true" type="tns:Exception" />
  </xs:schema>
```

## 6.10 AzureAD and HostedEmail Integration Service WSDL

### 6.10.1 IPasswordSyncClientProvider

#### 6.10.1.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
  <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
    xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
    xmlns:msc="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
    xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
    xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
    xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
    xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="PasswordSyncClientProvider"
    targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsp:Policy wsu:Id="CustomBinding_IProvider_policy">
      <wsp:ExactlyOne>
        <wsp>All>
          <msb:BinaryEncoding
            xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
          <sp:TransportBinding
            xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
            <wsp:Policy>
              <sp:TransportToken>
                <wsp:Policy>
                  <msf:SslTransportSecurity
                    xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy" />
                </wsp:Policy>
              </sp:TransportToken>
            </wsp:Policy>
          </sp:TransportBinding>
        </wsp>All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </wsdl:definitions>
```



```

        <sp:AlgorithmSuite>
            <wsp:Policy>
                <sp:Basic256 />
            </wsp:Policy>
        </sp:AlgorithmSuite>
        <sp:Layout>
            <wsp:Policy>
                <sp:Strict />
            </wsp:Policy>
        </sp:Layout>
    </wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy wsu:Id="CustomBinding IPasswOrdSyncClientProvider policy">
    <wsp:ExactlyOne>
        <wsp:All>
            <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
            <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
                <wsp:Policy>
                    <sp:TransportToken>
                        <wsp:Policy>
                            <msf:SslTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy" />
                        </wsp:Policy>
                    </sp:TransportToken>
                    <sp:AlgorithmSuite>
                        <wsp:Policy>
                            <sp:Basic256 />
                        </wsp:Policy>
                    </sp:AlgorithmSuite>
                    <sp:Layout>
                        <wsp:Policy>
                            <sp:Strict />
                        </wsp:Policy>
                    </sp:Layout>
                </wsp:Policy>
            </sp:TransportBinding>
            <wsaw:UsingAddressing />
        </wsp:All>
    </wsp:ExactlyOne>
</wsp:Policy>
<wsdl:types>
    <xsd:schema targetNamespace="http://tempuri.org/Imports">
        <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
        <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
        <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.PasswOrdSync" />
    </xsd:schema>
</wsdl:types>
<wsdl:message name="IProvider Disconnect InputMessage">
    <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>
<wsdl:message name="IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RaiseOperationInvokeEvent" />
</wsdl:message>
<wsdl:message
name="IPasswOrdSyncClientProvider_GetPasswOrdChangeStatus_InputMessage">
    <wsdl:part name="parameters" element="tns:GetPasswOrdChangeStatus" />
</wsdl:message>

```

```

        <wsdl:message
name="IPasswordSyncClientProvider_GetPasswordChangeStatus_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetPasswordChangeStatusResponse" />
        </wsdl:message>
        <wsdl:message
name="IPasswordSyncClientProvider_GetPasswordChangeStatus_PwdSyncConfigurationExceptionFault_FaultMessage">
        <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.PasswordSync" name="detail" element="q1:PwdSyncConfigurationException" />
        </wsdl:message>
        <wsdl:message
name="IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_InputMessage">
        <wsdl:part name="parameters" element="tns:MarkUserPasswordChangeFixed" />
        </wsdl:message>
        <wsdl:message
name="IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_OutputMessage">
        <wsdl:part name="parameters" element="tns:MarkUserPasswordChangeFixedResponse" />
        </wsdl:message>
        <wsdl:message
name="IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_PwdSyncConfigurationExceptionFault_FaultMessage">
        <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.PasswordSync" name="detail" element="q2:PwdSyncConfigurationException" />
        </wsdl:message>
        <wsdl:portType msc:usingSession="true" name="IProvider">
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="true"
name="Disconnect">
        <wsdl:input wsaw:Action="http://tempuri.org/IProvider/Disconnect"
message="tns:IProvider_Disconnect_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RaiseOperationInvokeEvent">
        <wsdl:output
wsaw:Action="http://tempuri.org/IProvider/RaiseOperationInvokeEvent"
message="tns:IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage" />
        </wsdl:operation>
        </wsdl:portType>
        <wsdl:portType msc:usingSession="true" name="IPasswordSyncClientProvider">
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="true"
name="Disconnect">
        <wsdl:input wsaw:Action="http://tempuri.org/IProvider/Disconnect"
message="tns:IProvider_Disconnect_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RaiseOperationInvokeEvent">
        <wsdl:output
wsaw:Action="http://tempuri.org/IProvider/RaiseOperationInvokeEvent"
message="tns:IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetPasswordChangeStatus">
        <wsdl:input
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatus"
message="tns:IPasswordSyncClientProvider_GetPasswordChangeStatus_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatusResponse"
message="tns:IPasswordSyncClientProvider_GetPasswordChangeStatus_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatusPwdSyncConfigurationExceptionFault" name="PwdSyncConfigurationExceptionFault"
message="tns:IPasswordSyncClientProvider_GetPasswordChangeStatus_PwdSyncConfigurationExceptionFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="MarkUserPasswordChangeFixed">

```

```

        <wsdl:input
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixed"
message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedResp
onse" message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_OutputMessage"
/>
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedPwdS
yncConfigurationExceptionFault" name="PwdSyncConfigurationExceptionFault"
message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_PwdSyncConfigurationExceptionEx
ceptionFault_FaultMessage" />
        </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding_IProvider" type="tns:IProvider">
  <wsp:PolicyReference URI="#CustomBinding_IProvider_policy" />
  <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
  <wsdl:operation name="Disconnect">
    <soap12:operation soapAction="http://tempuri.org/IProvider/Disconnect"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
  </wsdl:operation>
  <wsdl:operation name="RaiseOperationInvokeEvent">
    <soap12:operation
soapAction="http://tempuri.org/IProvider/RaiseOperationInvokeEvent" style="document" />
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CustomBinding_IPasswordSyncClientProvider"
type="tns:IPasswordSyncClientProvider">
  <wsp:PolicyReference URI="#CustomBinding_IPasswordSyncClientProvider_policy" />
  <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
  <wsdl:operation name="Disconnect">
    <soap12:operation soapAction="http://tempuri.org/IProvider/Disconnect"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
  </wsdl:operation>
  <wsdl:operation name="RaiseOperationInvokeEvent">
    <soap12:operation
soapAction="http://tempuri.org/IProvider/RaiseOperationInvokeEvent" style="document" />
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetPasswordChangeStatus">
    <soap12:operation
soapAction="http://tempuri.org/IPasswordSyncClientProvider/GetPasswordChangeStatus"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="PwdSyncConfigurationExceptionFault">
      <soap12:fault use="literal" name="PwdSyncConfigurationExceptionFault"
namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="MarkUserPasswordChangeFixed">
    <soap12:operation
soapAction="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixed"
style="document" />

```

```

        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="PwdSyncConfigurationExceptionFault">
          <soap12:fault use="literal" name="PwdSyncConfigurationExceptionFault"
namespace="" />
        </wsdl:fault>
      </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="PasswordSyncClientProvider">
      <wsdl:port name="CustomBinding_IProvider" binding="tns:CustomBinding_IProvider">
        <soap12:address
location="net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.PasswordSync.PasswordS
yncClientProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProvider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.PasswordSync.Pass
wordSyncClientProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProvider<
/wsa10:Address>
          <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
            <Dns>SERVERNAME</Dns>
          </Identity>
        </wsa10:EndpointReference>
      </wsdl:port>
    <wsdl:port name="CustomBinding_IPasswordSyncClientProvider"
binding="tns:CustomBinding_IPasswordSyncClientProvider">
      <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.PasswordSync.PasswordS
yncClientProvider/Microsoft.WindowsServerSolutions.PasswordSync.IPasswordSyncClientProvider
" />
      <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.PasswordSync.Pass
wordSyncClientProvider/Microsoft.WindowsServerSolutions.PasswordSync.IPasswordSyncClientPro
vider</wsa10:Address>
          <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
            <Dns>SERVERNAME</Dns>
          </Identity>
        </wsa10:EndpointReference>
      </wsdl:port>
    </wsdl:service>
  </wsdl:definitions>

```

### 6.10.1.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Passwor
dSync" />
  <xs:element name="Disconnect">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="RaiseOperationInvokeEvent">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="operationName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="result" nillable="true" type="xs:anyType" />

```

```

        <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System"
minOccurs="0" name="ErrorException" nillable="true" type="q1:Exception" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetPasswordChangeStatus">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Password
Sync" minOccurs="0" name="type" type="q2>PasswordSyncType" />
            <xs:element minOccurs="0" name="localuser" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetPasswordChangeStatusResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Password
Sync" minOccurs="0" name="GetPasswordChangeStatusResult" type="q3>PasswordChangeStatus" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MarkUserPasswordChangeFixed">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Password
Sync" minOccurs="0" name="type" type="q4>PasswordSyncType" />
            <xs:element minOccurs="0" name="localuser" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MarkUserPasswordChangeFixedResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
</xs:schema>

```

### 6.10.1.3 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.PasswordSync>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Passwor
dSync" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.P
asswordSync" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:simpleType name="PasswordSyncType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="AzureAD" />
            <xs:enumeration value="HostedEmail" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="PasswordSyncType" nillable="true" type="tns:PasswordSyncType" />
    <xs:simpleType name="PasswordChangeStatus">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Unknown" />
            <xs:enumeration value="Required" />
            <xs:enumeration value="UnSubmitted" />
            <xs:enumeration value="New" />
            <xs:enumeration value="InProgress" />
            <xs:enumeration value="Success" />
        </xs:restriction>
    </xs:simpleType>

```

```

        <xs:enumeration value="WaitForRetry" />
        <xs:enumeration value="Failed" />
        <xs:enumeration value="Fixed" />
        <xs:enumeration value="InvalidPassword" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="PasswordChangeStatus" nillable="true"
type="tns:PasswordChangeStatus" />
<xs:complexType name="PwdSyncConfigurationException">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:Exception" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="PwdSyncConfigurationException" nillable="true"
type="tns:PwdSyncConfigurationException" />
</xs:schema>

```

#### 6.10.1.4 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />
    <xs:element name="int" nillable="true" type="xs:int" />
    <xs:element name="long" nillable="true" type="xs:long" />
    <xs:element name="QName" nillable="true" type="xs:QName" />
    <xs:element name="short" nillable="true" type="xs:short" />
    <xs:element name="string" nillable="true" type="xs:string" />
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
    <xs:element name="char" nillable="true" type="tns:char" />
    <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns:duration" />
    <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
            <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="guid" nillable="true" type="tns:guid" />
    <xs:simpleType name="guid">
        <xs:restriction base="xs:string">
            <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
        </xs:restriction>
    </xs:simpleType>
    <xs:attribute name="FactoryType" type="xs:QName" />
    <xs:attribute name="Id" type="xs:ID" />
    <xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

## 6.10.1.5 http://schemas.datacontract.org/2004/07/System

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
    xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="Exception">
      <xs:sequence>
        <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
          processContents="skip" />
      </xs:sequence>
      <xs:attribute ref="ser:FactoryType" />
    </xs:complexType>
    <xs:element name="Exception" nillable="true" type="tns:Exception" />
  </xs:schema>
```

## 6.10.2 IO365ClientProvider

### 6.10.2.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
  <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
    xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
    xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
    xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
    xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
    xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
    xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="O365ManagementProvider"
    targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsp:Policy wsu:Id="CustomBinding_IProvider_policy">
      <wsp:ExactlyOne>
        <wsp>All>
          <msb:BinaryEncoding
            xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
          <sp:TransportBinding
            xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
            <wsp:Policy>
              <sp:TransportToken>
                <wsp:Policy>
                  <msf:SslTransportSecurity
                    xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy" />
                  </wsp:Policy>
                </sp:TransportToken>
                <sp:AlgorithmSuite>
                  <wsp:Policy>
                    <sp:Basic256 />
                  </wsp:Policy>
                </sp:AlgorithmSuite>
                <sp:Layout>
                  <wsp:Policy>
                    <sp:Strict />
                  </wsp:Policy>
                </sp:Layout>
              </wsp:Policy>
            </sp:TransportBinding>
            <wsaw:UsingAddressing />
          </wsp>All>
        </wsp:ExactlyOne>
```

```

</wsp:Policy>
<wsp:Policy wsu:Id="CustomBinding_IO365Provider_policy">
  <wsp:ExactlyOne>
    <wsp>All>
      <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
      <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
        <wsp:Policy>
          <sp:TransportToken>
            <wsp:Policy>
              <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
              </msf:WindowsTransportSecurity>
            </wsp:Policy>
          </sp:TransportToken>
          <sp:AlgorithmSuite>
            <wsp:Policy>
              <sp:Basic256 />
            </wsp:Policy>
          </sp:AlgorithmSuite>
          <sp:Layout>
            <wsp:Policy>
              <sp:Strict />
            </wsp:Policy>
          </sp:Layout>
        </wsp:Policy>
      </sp:TransportBinding>
      <wsaw:UsingAddressing />
    </wsp>All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsdl:types>
  <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
    <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteA
ccess.Domains" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security" />
    <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
  </xsd:schema>
</wsdl:types>
<wsdl:message name="IProvider_Disconnect_InputMessage">
  <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>
<wsdl:message name="IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RaiseOperationInvokeEvent" />
</wsdl:message>
<wsdl:message name="IO365Provider_Activate_InputMessage">
  <wsdl:part name="parameters" element="tns:Activate" />
</wsdl:message>

```



```

<wsdl:message name="IO365Provider ActivateAAD InputMessage">
  <wsdl:part name="parameters" element="tns:ActivateAAD" />
</wsdl:message>
<wsdl:message name="IO365Provider_ActivateService_InputMessage">
  <wsdl:part name="parameters" element="tns:ActivateService" />
</wsdl:message>
<wsdl:message name="IO365Provider_Deactivate_InputMessage">
  <wsdl:part name="parameters" element="tns:Deactivate" />
</wsdl:message>
<wsdl:message name="IO365Provider_DeactivateService_InputMessage">
  <wsdl:part name="parameters" element="tns:DeactivateService" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMappedOnlineUserNumber_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryMappedOnlineUserNumber" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryOnlineUser_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryOnlineUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryAllOnlineUsers InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAllOnlineUsers" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMappedOnlineUser_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryMappedOnlineUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_BulkMapOnlineUsers_InputMessage">
  <wsdl:part name="parameters" element="tns:BulkMapOnlineUsers" />
</wsdl:message>
<wsdl:message name="IO365Provider_MapOnlineUser_InputMessage">
  <wsdl:part name="parameters" element="tns:MapOnlineUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_UnmapOnlineUser InputMessage">
  <wsdl:part name="parameters" element="tns:UnmapOnlineUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_RemoveOnlineUserFromLocalUserName InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveOnlineUserFromLocalUserName" />
</wsdl:message>
<wsdl:message name="IO365Provider_ActivateUser_InputMessage">
  <wsdl:part name="parameters" element="tns:ActivateUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_DeactivateUser InputMessage">
  <wsdl:part name="parameters" element="tns:DeactivateUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateUserPrincipalName_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateUserPrincipalName" />
</wsdl:message>
<wsdl:message name="IO365Provider_ChangePassword InputMessage">
  <wsdl:part name="parameters" element="tns:ChangePassword" />
</wsdl:message>
<wsdl:message name="IO365Provider_SetUserLicenses_InputMessage">
  <wsdl:part name="parameters" element="tns:SetUserLicenses" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryAllMSOSecurityGroups InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAllMSOSecurityGroups" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMSOSecurityGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryMSOSecurityGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMappedMSOSecurityGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryMappedMSOSecurityGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_MapNewMSOSecurityGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:MapNewMSOSecurityGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_MapExistingMSOSecurityGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:MapExistingMSOSecurityGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_UnmapMSOSecurityGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:UnmapMSOSecurityGroup" />
</wsdl:message>

```

```

<wsdl:message name="IO365Provider RemoveMappedMSOSecurityGroup InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveMappedMSOSecurityGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryO365Information InputMessage">
  <wsdl:part name="parameters" element="tns:QueryO365Information" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateIntegrationStatus InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateIntegrationStatus" />
</wsdl:message>
<wsdl:message name="IO365Provider_SetCustomDomain InputMessage">
  <wsdl:part name="parameters" element="tns:SetCustomDomain" />
</wsdl:message>
<wsdl:message name="IO365Provider_SetManagedDomain InputMessage">
  <wsdl:part name="parameters" element="tns:SetManagedDomain" />
</wsdl:message>
<wsdl:message name="IO365Provider_ResetDomain InputMessage">
  <wsdl:part name="parameters" element="tns:ResetDomain" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryDnsRecords InputMessage">
  <wsdl:part name="parameters" element="tns:QueryDnsRecords" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryDomainConfiguration InputMessage">
  <wsdl:part name="parameters" element="tns:QueryDomainConfiguration" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateCustomDomain InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateCustomDomain" />
</wsdl:message>
<wsdl:message name="IO365Provider_IsLocalUserMapped InputMessage">
  <wsdl:part name="parameters" element="tns:IsLocalUserMapped" />
</wsdl:message>
<wsdl:message name="IO365Provider_IsLocalUserMapped OutputMessage">
  <wsdl:part name="parameters" element="tns:IsLocalUserMappedResponse" />
</wsdl:message>
<wsdl:message
name="IO365Provider_IsLocalUserMapped_O365ConfigureExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="detail" element="q1:O365ConfigureException" />
</wsdl:message>
<wsdl:message
name="IO365Provider_IsLocalUserMapped_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q2:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IO365Provider_IsLocalGroupMapped InputMessage">
  <wsdl:part name="parameters" element="tns:IsLocalGroupMapped" />
</wsdl:message>
<wsdl:message name="IO365Provider_IsLocalGroupMapped OutputMessage">
  <wsdl:part name="parameters" element="tns:IsLocalGroupMappedResponse" />
</wsdl:message>
<wsdl:message
name="IO365Provider_IsLocalGroupMapped_O365ConfigureExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="detail" element="q3:O365ConfigureException" />
</wsdl:message>
<wsdl:message
name="IO365Provider_IsLocalGroupMapped_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q4:SecurityAccessDeniedException" />
</wsdl:message>
<wsdl:message name="IO365Provider_GetMappedOnlineUserFromAD InputMessage">
  <wsdl:part name="parameters" element="tns:GetMappedOnlineUserFromAD" />
</wsdl:message>
<wsdl:message name="IO365Provider_GetMappedOnlineUserFromAD OutputMessage">
  <wsdl:part name="parameters" element="tns:GetMappedOnlineUserFromADResponse" />
</wsdl:message>

```

```

    <wsdl:message
name="IO365Provider_GetMappedOnlineUserFromAD_O365ConfigureExceptionFault_FaultMessage">
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="detail" element="q5:O365ConfigureException" />
    </wsdl:message>
</wsdl:message>
name="IO365Provider_GetMappedOnlineUserFromAD_SecurityAccessDeniedExceptionFault_FaultMessa
ge">
    <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q6:SecurityAccessDeniedException" />
    </wsdl:message>
<wsdl:message name="IO365Provider_QueryUserEmails_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryUserEmails" />
</wsdl:message>
<wsdl:message name="IO365Provider SetUserEmails InputMessage">
    <wsdl:part name="parameters" element="tns:SetUserEmails" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryO365UserWithEmails_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryO365UserWithEmails" />
</wsdl:message>
<wsdl:message name="IO365Provider UpdateO365UserWithEmails InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateO365UserWithEmails" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryAllMailboxStatistics_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryAllMailboxStatistics" />
</wsdl:message>
<wsdl:message name="IO365Provider QueryMobileDevices InputMessage">
    <wsdl:part name="parameters" element="tns:QueryMobileDevices" />
</wsdl:message>
<wsdl:message name="IO365Provider_AllowMobileDevices_InputMessage">
    <wsdl:part name="parameters" element="tns:AllowMobileDevices" />
</wsdl:message>
<wsdl:message name="IO365Provider_BlockMobileDevices_InputMessage">
    <wsdl:part name="parameters" element="tns:BlockMobileDevices" />
</wsdl:message>
<wsdl:message name="IO365Provider_RemoveMobileDevice_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveMobileDevice" />
</wsdl:message>
<wsdl:message name="IO365Provider WipeMobileDevice InputMessage">
    <wsdl:part name="parameters" element="tns:WipeMobileDevice" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMobileDevicePolicy_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryMobileDevicePolicy" />
</wsdl:message>
<wsdl:message name="IO365Provider_SetMobileDevicePolicy_InputMessage">
    <wsdl:part name="parameters" element="tns:SetMobileDevicePolicy" />
</wsdl:message>
<wsdl:message name="IO365Provider_CreateMobileDevicePolicy_InputMessage">
    <wsdl:part name="parameters" element="tns:CreateMobileDevicePolicy" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryMobileDeviceAccessRules_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryMobileDeviceAccessRules" />
</wsdl:message>
<wsdl:message name="IO365Provider_RemoveMobileDeviceAccessRule_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveMobileDeviceAccessRule" />
</wsdl:message>
<wsdl:message name="IO365Provider AddMobileDeviceAccessRule InputMessage">
    <wsdl:part name="parameters" element="tns:AddMobileDeviceAccessRule" />
</wsdl:message>
<wsdl:message name="IO365Provider_ApplyMobileDeviceAccessRule_InputMessage">
    <wsdl:part name="parameters" element="tns:ApplyMobileDeviceAccessRule" />
</wsdl:message>
<wsdl:message name="IO365Provider QueryMobileDeviceExtraInfo InputMessage">
    <wsdl:part name="parameters" element="tns:QueryMobileDeviceExtraInfo" />
</wsdl:message>
<wsdl:message name="IO365Provider_QueryAllExchangeGroupUsers_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryAllExchangeGroupUsers" />

```

```

</wsdl:message>
<wsdl:message name="IO365Provider_QueryAllExchangeDistrGroups_InputMessage">
  <wsdl:part name="parameters" element="tns:QueryAllExchangeDistrGroups" />
</wsdl:message>
<wsdl:message name="IO365Provider_AddExchangeDistrGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:AddExchangeDistrGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateExchangeDistrGroup_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateExchangeDistrGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateExchangeDistrGroupMembers_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateExchangeDistrGroupMembers" />
</wsdl:message>
<wsdl:message name="IO365Provider_DeleteExchangeDistrGroup_InputMessage">
  <wsdl:part name="parameters" element="tns>DeleteExchangeDistrGroup" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateUserExchangeDistrGroups_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateUserExchangeDistrGroups" />
</wsdl:message>
<wsdl:message name="IO365Provider_EnsureUser_InputMessage">
  <wsdl:part name="parameters" element="tns:EnsureUser" />
</wsdl:message>
<wsdl:message name="IO365Provider_GetSiteCollectionProperties_InputMessage">
  <wsdl:part name="parameters" element="tns:GetSiteCollectionProperties" />
</wsdl:message>
<wsdl:message name="IO365Provider_GetSiteProperties_InputMessage">
  <wsdl:part name="parameters" element="tns:GetSiteProperties" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateSiteProperties_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateSiteProperties" />
</wsdl:message>
<wsdl:message name="IO365Provider_GetSiteLibraries_InputMessage">
  <wsdl:part name="parameters" element="tns:GetSiteLibraries" />
</wsdl:message>
<wsdl:message name="IO365Provider_UpdateLibraryProperties_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateLibraryProperties" />
</wsdl:message>
<wsdl:message name="IO365Provider_AddLibrary_InputMessage">
  <wsdl:part name="parameters" element="tns:AddLibrary" />
</wsdl:message>
<wsdl:message name="IO365Provider_DeleteLibrary_InputMessage">
  <wsdl:part name="parameters" element="tns>DeleteLibrary" />
</wsdl:message>
<wsdl:message name="IO365Provider_On0365UserUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:On0365UserUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_On0365InformationUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:On0365InformationUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_On0365DomainUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:On0365DomainUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnGroupInfoUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnGroupInfoUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnMSOSecurityGroupUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnMSOSecurityGroupUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnSharePointSiteUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnSharePointSiteUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnSharePointLibraryAdded_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnSharePointLibraryAdded" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnSharePointLibraryRemoved_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnSharePointLibraryRemoved" />
</wsdl:message>
<wsdl:message name="IO365Provider_OnSharePointLibraryUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnSharePointLibraryUpdated" />

```

```

</wsdl:message>
<wsdl:message name="IO365Provider_OnIntegrationStatusUpdated_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnIntegrationStatusUpdated" />
</wsdl:message>
<wsdl:portType msc:usingSession="true" name="IProvider">
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="true"
name="Disconnect">
  <wsdl:input wsaw:Action="http://tempuri.org/IProvider/Disconnect"
message="tns:IProvider_Disconnect_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RaiseOperationInvokeEvent">
  <wsdl:output
wsaw:Action="http://tempuri.org/IProvider/RaiseOperationInvokeEvent"
message="tns:IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:portType msc:usingSession="true" name="IO365Provider">
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="true"
name="Disconnect">
  <wsdl:input wsaw:Action="http://tempuri.org/IProvider/Disconnect"
message="tns:IProvider_Disconnect_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RaiseOperationInvokeEvent">
  <wsdl:output
wsaw:Action="http://tempuri.org/IProvider/RaiseOperationInvokeEvent"
message="tns:IProvider_RaiseOperationInvokeEvent_OutputCallbackMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="Activate">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/Activate"
message="tns:IO365Provider_Activate_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ActivateAAD">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/ActivateAAD"
message="tns:IO365Provider_ActivateAAD_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ActivateService">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/ActivateService"
message="tns:IO365Provider_ActivateService_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="Deactivate">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/Deactivate"
message="tns:IO365Provider_Deactivate_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="DeactivateService">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/DeactivateService"
message="tns:IO365Provider_DeactivateService_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMappedOnlineUserNumber">
  <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryMappedOnlineUserNumber"
message="tns:IO365Provider_QueryMappedOnlineUserNumber_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryOnlineUser">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryOnlineUser"
message="tns:IO365Provider_QueryOnlineUser_InputMessage" />
  </wsdl:operation>
  <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryAllOnlineUsers">
  <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryAllOnlineUsers"
message="tns:IO365Provider_QueryAllOnlineUsers_InputMessage" />
  </wsdl:operation>

```

```

    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMappedOnlineUser">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryMappedOnlineUser"
message="tns:IO365Provider_QueryMappedOnlineUser_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="BulkMapOnlineUsers">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/BulkMapOnlineUsers"
message="tns:IO365Provider_BulkMapOnlineUsers_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="MapOnlineUser">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/MapOnlineUser"
message="tns:IO365Provider_MapOnlineUser_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UnmapOnlineUser">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/UnmapOnlineUser"
message="tns:IO365Provider_UnmapOnlineUser_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RemoveOnlineUserFromLocalUserName">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/RemoveOnlineUserFromLocalUserName"
message="tns:IO365Provider_RemoveOnlineUserFromLocalUserName_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ActivateUser">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/ActivateUser"
message="tns:IO365Provider_ActivateUser_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="DeactivateUser">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/DeactivateUser"
message="tns:IO365Provider_DeactivateUser_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateUserPrincipalName">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateUserPrincipalName"
message="tns:IO365Provider_UpdateUserPrincipalName_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ChangePassword">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/ChangePassword"
message="tns:IO365Provider_ChangePassword_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="SetUserLicenses">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/SetUserLicenses"
message="tns:IO365Provider_SetUserLicenses_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryAllMSOSecurityGroups">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryAllMSOSecurityGroups"
message="tns:IO365Provider_QueryAllMSOSecurityGroups_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMSOSecurityGroup">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryMSOSecurityGroup"
message="tns:IO365Provider_QueryMSOSecurityGroup_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMappedMSOSecurityGroup">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryMappedMSOSecurityGroup"
message="tns:IO365Provider_QueryMappedMSOSecurityGroup_InputMessage" />
    </wsdl:operation>

```

```

    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="MapNewMSOSecurityGroup">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/MapNewMSOSecurityGroup"
message="tns:IO365Provider_MapNewMSOSecurityGroup_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="MapExistingMSOSecurityGroup">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/MapExistingMSOSecurityGroup"
message="tns:IO365Provider_MapExistingMSOSecurityGroup_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UnmapMSOSecurityGroup">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/UnmapMSOSecurityGroup"
message="tns:IO365Provider_UnmapMSOSecurityGroup_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RemoveMappedMSOSecurityGroup">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/RemoveMappedMSOSecurityGroup"
message="tns:IO365Provider_RemoveMappedMSOSecurityGroup_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryO365Information">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryO365Information"
message="tns:IO365Provider_QueryO365Information_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateIntegrationStatus">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateIntegrationStatus"
message="tns:IO365Provider_UpdateIntegrationStatus_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="SetCustomDomain">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/SetCustomDomain"
message="tns:IO365Provider_SetCustomDomain_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="SetManagedDomain">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/SetManagedDomain"
message="tns:IO365Provider_SetManagedDomain_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ResetDomain">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/ResetDomain"
message="tns:IO365Provider_ResetDomain_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryDnsRecords">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryDnsRecords"
message="tns:IO365Provider_QueryDnsRecords_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryDomainConfiguration">
    <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryDomainConfiguration"
message="tns:IO365Provider_QueryDomainConfiguration_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateCustomDomain">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/UpdateCustomDomain"
message="tns:IO365Provider_UpdateCustomDomain_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="IsLocalUserMapped">
    <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/IsLocalUserMapped"
message="tns:IO365Provider_IsLocalUserMapped_InputMessage" />

```

```

        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalUserMappedResponse"
message="tns:IO365Provider_IsLocalUserMapped_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalUserMappedO365ConfigureExceptionFault"
name="O365ConfigureExceptionFault"
message="tns:IO365Provider_IsLocalUserMapped_O365ConfigureExceptionFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalUserMappedSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider_IsLocalUserMapped_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="IsLocalGroupMapped">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/IsLocalGroupMapped"
message="tns:IO365Provider_IsLocalGroupMapped_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalGroupMappedResponse"
message="tns:IO365Provider_IsLocalGroupMapped_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalGroupMappedO365ConfigureExceptionFault" name="O365ConfigureExceptionFault"
message="tns:IO365Provider_IsLocalGroupMapped_O365ConfigureExceptionFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalGroupMappedSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider_IsLocalGroupMapped_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetMappedOnlineUserFromAD">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromAD"
message="tns:IO365Provider_GetMappedOnlineUserFromAD_InputMessage" />
        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromADResponse"
message="tns:IO365Provider_GetMappedOnlineUserFromAD_OutputMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromADO365ConfigureExceptionFault" name="O365ConfigureExceptionFault"
message="tns:IO365Provider_GetMappedOnlineUserFromAD_O365ConfigureExceptionFault_FaultMessage" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromADSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider_GetMappedOnlineUserFromAD_SecurityAccessDeniedExceptionFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryUserEmails">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryUserEmails"
message="tns:IO365Provider_QueryUserEmails_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="SetUserEmails">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/SetUserEmails"
message="tns:IO365Provider_SetUserEmails_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryO365UserWithEmails">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryO365UserWithEmails"
message="tns:IO365Provider_QueryO365UserWithEmails_InputMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateO365UserWithEmails">

```



```

        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateO365UserWithEmails"
message="tns:IO365Provider_UpdateO365UserWithEmails_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryAllMailboxStatistics">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryAllMailboxStatistics"
message="tns:IO365Provider_QueryAllMailboxStatistics_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMobileDevices">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/QueryMobileDevices"
message="tns:IO365Provider_QueryMobileDevices_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="AllowMobileDevices">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/AllowMobileDevices"
message="tns:IO365Provider AllowMobileDevices InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="BlockMobileDevices">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/BlockMobileDevices"
message="tns:IO365Provider_BlockMobileDevices_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RemoveMobileDevice">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/RemoveMobileDevice"
message="tns:IO365Provider RemoveMobileDevice InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="WipeMobileDevice">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/WipeMobileDevice"
message="tns:IO365Provider WipeMobileDevice InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMobileDevicePolicy">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryMobileDevicePolicy"
message="tns:IO365Provider_QueryMobileDevicePolicy InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="SetMobileDevicePolicy">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/SetMobileDevicePolicy"
message="tns:IO365Provider_SetMobileDevicePolicy_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="CreateMobileDevicePolicy">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/CreateMobileDevicePolicy"
message="tns:IO365Provider_CreateMobileDevicePolicy_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMobileDeviceAccessRules">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryMobileDeviceAccessRules"
message="tns:IO365Provider_QueryMobileDeviceAccessRules InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="RemoveMobileDeviceAccessRule">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/RemoveMobileDeviceAccessRule"
message="tns:IO365Provider RemoveMobileDeviceAccessRule InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="AddMobileDeviceAccessRule">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/AddMobileDeviceAccessRule"
message="tns:IO365Provider_AddMobileDeviceAccessRule_InputMessage" />

```

```

        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="ApplyMobileDeviceAccessRule">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/ApplyMobileDeviceAccessRule"
message="tns:IO365Provider_ApplyMobileDeviceAccessRule_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryMobileDeviceExtraInfo">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryMobileDeviceExtraInfo"
message="tns:IO365Provider_QueryMobileDeviceExtraInfo_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryAllExchangeGroupUsers">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryAllExchangeGroupUsers"
message="tns:IO365Provider_QueryAllExchangeGroupUsers_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="QueryAllExchangeDistrGroups">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/QueryAllExchangeDistrGroups"
message="tns:IO365Provider_QueryAllExchangeDistrGroups_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="AddExchangeDistrGroup">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/AddExchangeDistrGroup"
message="tns:IO365Provider_AddExchangeDistrGroup_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateExchangeDistrGroup">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateExchangeDistrGroup"
message="tns:IO365Provider_UpdateExchangeDistrGroup_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateExchangeDistrGroupMembers">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateExchangeDistrGroupMembers"
message="tns:IO365Provider_UpdateExchangeDistrGroupMembers_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="DeleteExchangeDistrGroup">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/DeleteExchangeDistrGroup"
message="tns:IO365Provider_DeleteExchangeDistrGroup_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateUserExchangeDistrGroups">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateUserExchangeDistrGroups"
message="tns:IO365Provider_UpdateUserExchangeDistrGroups_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="EnsureUser">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/EnsureUser"
message="tns:IO365Provider_EnsureUser_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetSiteCollectionProperties">
        <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/GetSiteCollectionProperties"
message="tns:IO365Provider_GetSiteCollectionProperties_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetSiteProperties">
        <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/GetSiteProperties"
message="tns:IO365Provider_GetSiteProperties_InputMessage" />

```

```

        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateSiteProperties">
            <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/UpdateSiteProperties"
message="tns:IO365Provider_UpdateSiteProperties_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetSiteLibraries">
            <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/GetSiteLibraries"
message="tns:IO365Provider_GetSiteLibraries_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="UpdateLibraryProperties">
            <wsdl:input
wsaw:Action="http://tempuri.org/IO365Provider/UpdateLibraryProperties"
message="tns:IO365Provider_UpdateLibraryProperties_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="AddLibrary">
            <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/AddLibrary"
message="tns:IO365Provider_AddLibrary_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="DeleteLibrary">
            <wsdl:input wsaw:Action="http://tempuri.org/IO365Provider/DeleteLibrary"
message="tns:IO365Provider_DeleteLibrary_InputMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="On0365UserUpdated">
            <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/On0365UserUpdated"
message="tns:IO365Provider_On0365UserUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="On0365InformationUpdated">
            <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/On0365InformationUpdated"
message="tns:IO365Provider_On0365InformationUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="On0365DomainUpdated">
            <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/On0365DomainUpdated"
message="tns:IO365Provider_On0365DomainUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnGroupInfoUpdated">
            <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/OnGroupInfoUpdated"
message="tns:IO365Provider_OnGroupInfoUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnMSOSecurityGroupUpdated">
            <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnMSOSecurityGroupUpdated"
message="tns:IO365Provider_OnMSOSecurityGroupUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointSiteUpdated">
            <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnSharePointSiteUpdated"
message="tns:IO365Provider_OnSharePointSiteUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryAdded">
            <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnSharePointLibraryAdded"
message="tns:IO365Provider_OnSharePointLibraryAdded_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryRemoved">

```

```

        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnSharePointLibraryRemoved"
message="tns:IO365Provider_OnSharePointLibraryRemoved_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryUpdated">
        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnSharePointLibraryUpdated"
message="tns:IO365Provider_OnSharePointLibraryUpdated_OutputCallbackMessage" />
        </wsdl:operation>
        <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnIntegrationStatusUpdated">
        <wsdl:output
wsaw:Action="http://tempuri.org/IO365Provider/OnIntegrationStatusUpdated"
message="tns:IO365Provider_OnIntegrationStatusUpdated_OutputCallbackMessage" />
        </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding_IProvider" type="tns:IProvider">
<wsp:PolicyReference URI="#CustomBinding_IProvider_policy" />
<soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
<wsdl:operation name="Disconnect">
<soap12:operation soapAction="http://tempuri.org/IProvider/Disconnect"
style="document" />
        <wsdl:input>
        <soap12:body use="literal" />
        </wsdl:input>
</wsdl:operation>
<wsdl:operation name="RaiseOperationInvokeEvent">
<soap12:operation
soapAction="http://tempuri.org/IProvider/RaiseOperationInvokeEvent" style="document" />
        <wsdl:output>
        <soap12:body use="literal" />
        </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CustomBinding_IO365Provider" type="tns:IO365Provider">
<wsp:PolicyReference URI="#CustomBinding_IO365Provider_policy" />
<soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
<wsdl:operation name="Disconnect">
<soap12:operation soapAction="http://tempuri.org/IProvider/Disconnect"
style="document" />
        <wsdl:input>
        <soap12:body use="literal" />
        </wsdl:input>
</wsdl:operation>
<wsdl:operation name="RaiseOperationInvokeEvent">
<soap12:operation
soapAction="http://tempuri.org/IProvider/RaiseOperationInvokeEvent" style="document" />
        <wsdl:output>
        <soap12:body use="literal" />
        </wsdl:output>
</wsdl:operation>
<wsdl:operation name="Activate">
<soap12:operation soapAction="http://tempuri.org/IO365Provider/Activate"
style="document" />
        <wsdl:input>
        <soap12:body use="literal" />
        </wsdl:input>
</wsdl:operation>
<wsdl:operation name="ActivateAAD">
<soap12:operation soapAction="http://tempuri.org/IO365Provider/ActivateAAD"
style="document" />
        <wsdl:input>
        <soap12:body use="literal" />
        </wsdl:input>
</wsdl:operation>
<wsdl:operation name="ActivateService">
<soap12:operation soapAction="http://tempuri.org/IO365Provider/ActivateService"
style="document" />

```

```

        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="Deactivate">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/Deactivate"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="DeactivateService">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/DeactivateService" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="QueryMappedOnlineUserNumber">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMappedOnlineUserNumber" style="document"
/>
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="QueryOnlineUser">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/QueryOnlineUser"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="QueryAllOnlineUsers">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryAllOnlineUsers" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="QueryMappedOnlineUser">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMappedOnlineUser" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="BulkMapOnlineUsers">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/BulkMapOnlineUsers" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="MapOnlineUser">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/MapOnlineUser"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="UnmapOnlineUser">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/UnmapOnlineUser"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
      </wsdl:operation>
      <wsdl:operation name="RemoveOnlineUserFromLocalUserName">

```

```

        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/RemoveOnlineUserFromLocalUserName"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="ActivateUser">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/ActivateUser"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="DeactivateUser">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/DeactivateUser"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UpdateUserPrincipalName">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateUserPrincipalName" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="ChangePassword">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/ChangePassword"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="SetUserLicenses">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/SetUserLicenses"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryAllMSOSecurityGroups">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryAllMSOSecurityGroups" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMSOSecurityGroup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryMappedMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMappedMSOSecurityGroup" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="MapNewMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/MapNewMSOSecurityGroup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>

```

```

        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="MapExistingMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/MapExistingMSOSecurityGroup" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UnmapMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UnmapMSOSecurityGroup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="RemoveMappedMSOSecurityGroup">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/RemoveMappedMSOSecurityGroup" style="document"
/>
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryO365Information">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryO365Information" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UpdateIntegrationStatus">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateIntegrationStatus" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="SetCustomDomain">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/SetCustomDomain"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="SetManagedDomain">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/SetManagedDomain"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="ResetDomain">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/ResetDomain"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryDnsRecords">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/QueryDnsRecords"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryDomainConfiguration">

```

```

        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryDomainConfiguration" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UpdateCustomDomain">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateCustomDomain" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="IsLocalUserMapped">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/IsLocalUserMapped" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="O365ConfigureExceptionFault">
            <soap12:fault use="literal" name="O365ConfigureExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault"
namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsLocalGroupMapped">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/IsLocalGroupMapped" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="O365ConfigureExceptionFault">
            <soap12:fault use="literal" name="O365ConfigureExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault"
namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetMappedOnlineUserFromAD">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromAD" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="O365ConfigureExceptionFault">
            <soap12:fault use="literal" name="O365ConfigureExceptionFault" namespace="" />
        </wsdl:fault>
        <wsdl:fault name="SecurityAccessDeniedExceptionFault">
            <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault"
namespace="" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="QueryUserEmails">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/QueryUserEmails"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />

```



```

        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="SetUserEmails">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/SetUserEmails"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryO365UserWithEmails">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryO365UserWithEmails" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="UpdateO365UserWithEmails">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateO365UserWithEmails" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryAllMailboxStatistics">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryAllMailboxStatistics" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryMobileDevices">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMobileDevices" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="AllowMobileDevices">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/AllowMobileDevices" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="BlockMobileDevices">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/BlockMobileDevices" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="RemoveMobileDevice">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/RemoveMobileDevice" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="WipeMobileDevice">
        <soap12:operation soapAction="http://tempuri.org/IO365Provider/WipeMobileDevice"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="QueryMobileDevicePolicy">
        <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMobileDevicePolicy" style="document" />
        <wsdl:input>

```

```

        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="SetMobileDevicePolicy">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/SetMobileDevicePolicy" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="CreateMobileDevicePolicy">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/CreateMobileDevicePolicy" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="QueryMobileDeviceAccessRules">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMobileDeviceAccessRules" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="RemoveMobileDeviceAccessRule">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/RemoveMobileDeviceAccessRule" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="AddMobileDeviceAccessRule">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/AddMobileDeviceAccessRule" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="ApplyMobileDeviceAccessRule">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/ApplyMobileDeviceAccessRule" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="QueryMobileDeviceExtraInfo">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryMobileDeviceExtraInfo" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="QueryAllExchangeGroupUsers">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryAllExchangeGroupUsers" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="QueryAllExchangeDistrGroups">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/QueryAllExchangeDistrGroups" style="document"
/>
    <wsdl:input>

```

```

        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="AddExchangeDistrGroup">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/AddExchangeDistrGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateExchangeDistrGroup">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateExchangeDistrGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateExchangeDistrGroupMembers">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateExchangeDistrGroupMembers"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="DeleteExchangeDistrGroup">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/DeleteExchangeDistrGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateUserExchangeDistrGroups">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateUserExchangeDistrGroups"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="EnsureUser">
    <soap12:operation soapAction="http://tempuri.org/IO365Provider/EnsureUser"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="GetSiteCollectionProperties">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/GetSiteCollectionProperties" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="GetSiteProperties">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/GetSiteProperties" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateSiteProperties">
    <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateSiteProperties" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>

```

```

        <wsdl:operation name="GetSiteLibraries">
          <soap12:operation soapAction="http://tempuri.org/IO365Provider/GetSiteLibraries"
style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="UpdateLibraryProperties">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/UpdateLibraryProperties" style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="AddLibrary">
          <soap12:operation soapAction="http://tempuri.org/IO365Provider/AddLibrary"
style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="DeleteLibrary">
          <soap12:operation soapAction="http://tempuri.org/IO365Provider/DeleteLibrary"
style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
        </wsdl:operation>
        <wsdl:operation name="OnO365UserUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnO365UserUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnO365InformationUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnO365InformationUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnO365DomainUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnO365DomainUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnGroupInfoUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnGroupInfoUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnMSOSecurityGroupUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnMSOSecurityGroupUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnSharePointSiteUpdated">
          <soap12:operation
soapAction="http://tempuri.org/IO365Provider/OnSharePointSiteUpdated" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>

```

```

        </wsdl:operation>
        <wsdl:operation name="OnSharePointLibraryAdded">
          <soap12:operation
            soapAction="http://tempuri.org/IO365Provider/OnSharePointLibraryAdded" style="document" />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnSharePointLibraryRemoved">
          <soap12:operation
            soapAction="http://tempuri.org/IO365Provider/OnSharePointLibraryRemoved" style="document"
            />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnSharePointLibraryUpdated">
          <soap12:operation
            soapAction="http://tempuri.org/IO365Provider/OnSharePointLibraryUpdated" style="document"
            />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="OnIntegrationStatusUpdated">
          <soap12:operation
            soapAction="http://tempuri.org/IO365Provider/OnIntegrationStatusUpdated" style="document"
            />
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
        </wsdl:operation>
      </wsdl:binding>
      <wsdl:service name="O365ManagementProvider">
        <wsdl:port name="CustomBinding_IProvider" binding="tns:CustomBinding_IProvider">
          <soap12:address
            location="net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.0365Integration.0365Ma
            nagementProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProvider" />
          <wsa10:EndpointReference>
            <wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.0365Integration.O
            365ManagementProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProvider</
            wsa10:Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
              <Dns>SERVERNAME</Dns>
            </Identity>
          </wsa10:EndpointReference>
        </wsdl:port>
        <wsdl:port name="CustomBinding_IO365Provider"
          binding="tns:CustomBinding_IO365Provider">
          <soap12:address
            location="net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.0365Integration.0365Ma
            nagementProvider/Microsoft.WindowsServerSolutions.0365Integration.IO365Provider" />
          <wsa10:EndpointReference>
            <wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.0365Integration.O
            365ManagementProvider/Microsoft.WindowsServerSolutions.0365Integration.IO365Provider</wsa10
            :Address>
            <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
              <Spn>host/serverName.domain</Spn>
            </Identity>
          </wsa10:EndpointReference>
        </wsdl:port>
      </wsdl:service>
    </wsdl:definitions>

```

## 6.10.2.2 http://tempuri.org

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="Disconnect">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="RaiseOperationInvokeEvent">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="operationName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="result" nillable="true" type="xs:anyType" />
        <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System"
minOccurs="0" name="ErrorException" nillable="true" type="q1:Exception" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Activate">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="adminUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="adminPassword" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ActivateAAD">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="adminUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="adminPassword" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ActivateService">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="guid" type="q2:guid" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Deactivate">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeactivateService">
```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="guid" type="q3:guid" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="QueryMappedOnlineUserNumber">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="QueryOnlineUser">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userPrincipalName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="QueryAllOnlineUsers">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="QueryMappedOnlineUser">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BulkMapOnlineUsers">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" minOccurs="0" name="users" nillable="true" type="q4:ArrayOf0365UserMap" />
        <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" minOccurs="0" name="licenses" nillable="true" type="q5:ArrayOf0365UserLicense" />
        <xs:element minOccurs="0" name="forceNew" type="xs:boolean" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MapOnlineUser">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="onlineUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="MapOnlineUsers">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="onlineUserName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BulkMapOnlineUsers">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" minOccurs="0" name="users" nillable="true" type="q6:ArrayOf0365UserLicense" />
        <xs:element minOccurs="0" name="forceNew" type="xs:boolean" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

</xs:element>
<xs:element name="UnmapOnlineUser">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveOnlineUserFromLocalUserName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ActivateUser">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeactivateUser">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateUserPrincipalName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="onlineUserPrincipalName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ChangePassword">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="password" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetUserLicenses">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
      <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" minOccurs="0" name="licenses" nillable="true" type="q7:ArrayOf0365UserLicense" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>

```



```

</xs:element>
<xs:element name="QueryAllMSOSecurityGroups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="QueryMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="groupId" type="q8:guid" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="QueryMappedMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MapNewMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="onlineGroupName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MapExistingMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
      <xs:element xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="onlineGroupId" type="q9:guid" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UnmapMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveMappedMSOSecurityGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="QueryO365Information">
  <xs:complexType>
    <xs:sequence>

```

```

        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="UpdateIntegrationStatus">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetCustomDomain">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="domainName" nillable="true" type="xs:string"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetManagedDomain">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ResetDomain">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryDnsRecords">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="domainName" nillable="true" type="xs:string"
/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryDomainConfiguration">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateCustomDomain">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsLocalUserMapped">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsLocalUserMappedResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsLocalUserMappedResult" type="xs:boolean" />

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsLocalGroupMapped">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localGroupName" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="IsLocalGroupMappedResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="IsLocalGroupMappedResult" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMappedOnlineUserFromAD">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetMappedOnlineUserFromADResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetMappedOnlineUserFromADResult"
nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryUserEmails">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetUserEmails">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
            <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="emails" nillable="true" type="q10:ArrayOfstring" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Query0365UserWithEmails">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Update0365UserWithEmails">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="localUserName" nillable="true"
type="xs:string" />

```

```

        <xs:element minOccurs="0" name="onlineUserPrincipalName" nillable="true"
type="xs:string" />
        <xs:element
xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="emails" nillable="true" type="q11:ArrayOfstring" />
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="QueryAllMailboxStatistics">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryMobileDevices">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AllowMobileDevices">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="mailbox" nillable="true" type="xs:string" />
            <xs:element
xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="deviceIds" nillable="true" type="q12:ArrayOfstring" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BlockMobileDevices">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="mailbox" nillable="true" type="xs:string" />
            <xs:element
xmlns:q13="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="deviceIds" nillable="true" type="q13:ArrayOfstring" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveMobileDevice">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="deviceId" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="WipeMobileDevice">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="deviceId" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryMobileDevicePolicy">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetMobileDevicePolicy">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="policy" nillable="true" type="q14:MobileDevicePolicy" />
          <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CreateMobileDevicePolicy">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q15="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="policy" nillable="true" type="q15:MobileDevicePolicy" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="QueryMobileDeviceAccessRules">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveMobileDeviceAccessRule">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="ruleId" nillable="true" type="xs:string" />
          <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="AddMobileDeviceAccessRule">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="rule" nillable="true" type="q16:MobileDeviceAccessRule" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="ApplyMobileDeviceAccessRule">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="mailbox" nillable="true" type="xs:string" />
          <xs:element
xmlns:q17="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="deviceIds" nillable="true" type="q17:ArrayOfstring" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="QueryMobileDeviceExtraInfo">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="infoType" type="q18:MobileDeviceExtraInfoType" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="QueryAllExchangeGroupUsers">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="QueryAllExchangeDistrGroups">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddExchangeDistrGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="group" nillable="true" type="q19:ExchangeDistrGroup" />
            <xs:element
xmlns:q20="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="memberIds" nillable="true" type="q20:ArrayOfguid" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateExchangeDistrGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="group" nillable="true" type="q21:ExchangeDistrGroup" />
            <xs:element
xmlns:q22="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="memberIds" nillable="true" type="q22:ArrayOfguid" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateExchangeDistrGroupMembers">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q23="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="groupId" type="q23:guid" />
            <xs:element
xmlns:q24="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="memberIds" nillable="true" type="q24:ArrayOfguid" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteExchangeDistrGroup">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q25="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="groupId" type="q25:guid" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateUserExchangeDistrGroups">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q26="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="userId" type="q26:guid" />
            <xs:element
xmlns:q27="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="groupsToAdd" nillable="true" type="q27:ArrayOfguid" />
            <xs:element
xmlns:q28="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="groupsToDelete" nillable="true" type="q28:ArrayOfguid" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="EnsureUser">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="siteCollectionUri" nillable="true"
type="xs:anyURI" />
            <xs:element minOccurs="0" name="logonName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetSiteCollectionProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="siteCollectionUri" nillable="true"
type="xs:anyURI" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetSiteProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="siteUri" nillable="true" type="xs:anyURI" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateSiteProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="site" nillable="true" type="q29:SharePointSite" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetSiteLibraries">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="siteUri" nillable="true" type="xs:anyURI" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateLibraryProperties">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="library" nillable="true" type="q30:SharePointLibrary" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddLibrary">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q31="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="library" nillable="true" type="q31:SharePointLibrary" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DeleteLibrary">

```

```

        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q32="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="library" nillable="true" type="q32:SharePointLibrary" />
            <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnO365UserUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q33="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true" type="q33:O365UserUpdatedEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnO365InformationUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q34="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true" type="q34:O365InformationUpdatedEventArgs"
/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnO365DomainUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q35="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true"
type="q35:O365DomainConfigurationUpdateEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnGroupInfoUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q36="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true"
type="q36:ExchangeGroupInfoUpdatedEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnMSOSecurityGroupUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true"
type="q37:MSOSecurityGroupUpdatedEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnSharePointSiteUpdated">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q38="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true" type="q38:SharePointSiteUpdatedEventArgs"
/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="OnSharePointLibraryAdded">

```



```

    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q39="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true" type="q39:SharePointLibraryAddedEventArgs"
/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="OnSharePointLibraryRemoved">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q40="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true"
type="q40:SharePointLibraryRemovedEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="OnSharePointLibraryUpdated">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q41="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" minOccurs="0" name="e" nillable="true"
type="q41:SharePointLibraryUpdatedEventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="OnIntegrationStatusUpdated">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q42="http://schemas.datacontract.org/2004/07/System"
minOccurs="0" name="e" nillable="true" type="q42:EventArgs" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>

```

### 6.10.2.3 <http://schemas.microsoft.com/2003/10/Serialization>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType" />
  <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
  <xs:element name="boolean" nillable="true" type="xs:boolean" />
  <xs:element name="byte" nillable="true" type="xs:byte" />
  <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
  <xs:element name="decimal" nillable="true" type="xs:decimal" />
  <xs:element name="double" nillable="true" type="xs:double" />
  <xs:element name="float" nillable="true" type="xs:float" />
  <xs:element name="int" nillable="true" type="xs:int" />
  <xs:element name="long" nillable="true" type="xs:long" />
  <xs:element name="QName" nillable="true" type="xs:QName" />
  <xs:element name="short" nillable="true" type="xs:short" />
  <xs:element name="string" nillable="true" type="xs:string" />
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
  <xs:element name="char" nillable="true" type="tns:char" />
  <xs:simpleType name="char">
    <xs:restriction base="xs:int" />

```

```

</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns:duration" />
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="guid" nillable="true" type="tns:guid" />
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType" type="xs:QName" />
<xs:attribute name="Id" type="xs:ID" />
<xs:attribute name="Ref" type="xs:IDREF" />
</xs:schema>

```

### 6.10.2.4 <http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
    namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
    egration" />
  <xs:import schemaLocation=""
    namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="ReadOnlyCollectionOf0365Skug8jlx19J">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
          Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
          xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="0365Sku"
            Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
            egration" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
        gration" name="list" nillable="true" type="q1:ArrayOf0365Sku" />
      </xs:sequence>
    </xs:complexType>
  <xs:element name="ReadOnlyCollectionOf0365Skug8jlx19J" nillable="true"
    type="tns:ReadOnlyCollectionOf0365Skug8jlx19J" />
  <xs:complexType name="ReadOnlyCollectionOf0365Serviceg8jlx19J">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
          Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
          xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="0365Service"
            Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
            egration" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>

```

```

    <xs:sequence>
      <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" name="list" nillable="true" type="q2:ArrayOf0365Service" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOf0365Serviceg8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOf0365Serviceg8jlx19J" />
  <xs:complexType name="ReadOnlyCollectionOf0365Subscriptiong8jlx19J">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="0365Subscription"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" name="list" nillable="true" type="q3:ArrayOf0365Subscription" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOf0365Subscriptiong8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOf0365Subscriptiong8jlx19J" />
  <xs:complexType name="ReadOnlyCollectionOfstring">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="string" Namespace="http://www.w3.org/2001/XMLSchema"
/>
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="list" nillable="true" type="q4:ArrayOfstring" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOfstring" nillable="true"
type="tns:ReadOnlyCollectionOfstring" />
  <xs:complexType name="ReadOnlyCollectionOf0365UserLicenseg8jlx19J">
    <xs:annotation>
      <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
          <GenericParameter Name="0365UserLicense"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" />
        </GenericType>
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" name="list" nillable="true" type="q5:ArrayOf0365UserLicense" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOf0365UserLicenseg8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOf0365UserLicenseg8jlx19J" />
  <xs:complexType name="ReadOnlyCollectionOf0365Domaing8jlx19J">
    <xs:annotation>
      <xs:appinfo>

```

```

        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
        <GenericParameter Name="O365Domain"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Int
egration" />
        </GenericType>
        </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
        <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="list" nillable="true" type="q6:ArrayOfO365Domain" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ReadOnlyCollectionOfO365Domaing8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOfO365Domaing8jlx19J" />
        <xs:complexType name="ReadOnlyCollectionOfint">
        <xs:annotation>
        <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
        <GenericParameter Name="int" Namespace="http://www.w3.org/2001/XMLSchema" />
        </GenericType>
        </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
        <xs:element xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="list" nillable="true" type="q7:ArrayOfint" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ReadOnlyCollectionOfint" nillable="true"
type="tns:ReadOnlyCollectionOfint" />
        <xs:complexType name="ReadOnlyCollectionOfSharePointRoleDefinitiong8jlx19J">
        <xs:annotation>
        <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
        <GenericParameter Name="SharePointRoleDefinition"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Int
egration" />
        </GenericType>
        </xs:appinfo>
        </xs:annotation>
        <xs:sequence>
        <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="list" nillable="true" type="q8:ArrayOfSharePointRoleDefinition" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ReadOnlyCollectionOfSharePointRoleDefinitiong8jlx19J"
nillable="true" type="tns:ReadOnlyCollectionOfSharePointRoleDefinitiong8jlx19J" />
        <xs:complexType name="ReadOnlyCollectionOfSharePointGroupg8jlx19J">
        <xs:annotation>
        <xs:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
        <GenericParameter Name="SharePointGroup"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Int
egration" />
        </GenericType>
        </xs:appinfo>
        </xs:annotation>
        <xs:sequence>

```

```

        <xs:element
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" name="list" nillable="true" type="q9:ArrayOfSharePointGroup" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="ReadOnlyCollectionOfSharePointGroupg8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOfSharePointGroupg8jlx19J" />
    <xs:complexType name="ReadOnlyCollectionOfSharePointUserg8jlx19J">
        <xs:annotation>
            <xs:appinfo>
                <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
                    <GenericParameter Name="SharePointUser"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" />
                </GenericType>
            </xs:appinfo>
        </xs:annotation>
    </xs:sequence>
        <xs:element
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" name="list" nillable="true" type="q10:ArrayOfSharePointUser" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="ReadOnlyCollectionOfSharePointUserg8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOfSharePointUserg8jlx19J" />
    <xs:complexType name="ReadOnlyCollectionOfSharePointRoleAssignmentg8jlx19J">
        <xs:annotation>
            <xs:appinfo>
                <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
                    <GenericParameter Name="SharePointRoleAssignment"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" />
                </GenericType>
            </xs:appinfo>
        </xs:annotation>
    </xs:sequence>
        <xs:element
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Int
egration" name="list" nillable="true" type="q11:ArrayOfSharePointRoleAssignment" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="ReadOnlyCollectionOfSharePointRoleAssignmentg8jlx19J"
nillable="true" type="tns:ReadOnlyCollectionOfSharePointRoleAssignmentg8jlx19J" />
    <xs:complexType name="ReadOnlyCollectionOfanyURI">
        <xs:annotation>
            <xs:appinfo>
                <GenericType Name="ReadOnlyCollectionOf{0}{#}"
Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
                    <GenericParameter Name="anyURI" Namespace="http://www.w3.org/2001/XMLSchema"
/>
                </GenericType>
            </xs:appinfo>
        </xs:annotation>
    </xs:sequence>
        <xs:element
xmlns:q12="http://schemas.microsoft.com/2003/10/Serialization/Arrays" name="list"
nillable="true" type="q12:ArrayOfanyURI" />
    </xs:sequence>
</xs:complexType>
    <xs:element name="ReadOnlyCollectionOfanyURI" nillable="true"
type="tns:ReadOnlyCollectionOfanyURI" />
</xs:schema>

```

## 6.10.2.5 http://schemas.datacontract.org/2004/07/System.Net.Sockets

```
<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
    elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:simpleType name="AddressFamily">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Unknown">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">-1</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Unspecified">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Unix">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="InterNetwork">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="ImpLink">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Pup">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Chaos">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="NS">
          <xs:annotation>
```

```

        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ipx">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Iso">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Osi">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ecma">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DataKit">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Ccitt">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Sna">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="DecNet">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">12</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>

```

```

    </xs:enumeration>
    <xs:enumeration value="DataLink">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">13</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Lat">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">14</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="HyperChannel">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">15</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="AppleTalk">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="NetBios">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">17</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="VoiceView">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">18</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="FireFox">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">19</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Banyan">
      <xs:annotation>
        <xs:appinfo>
          <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">21</EnumerationValue>
        </xs:appinfo>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Atm">
      <xs:annotation>
        <xs:appinfo>

```



```

        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">22</EnumerationValue>
        </xs:appinfo>
        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="InterNetworkV6">
        <xs:annotation>
            <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">23</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Cluster">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">24</EnumerationValue>
                    </xs:appinfo>
                </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Ieee12844">
                <xs:annotation>
                    <xs:appinfo>
                        <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">25</EnumerationValue>
                        </xs:appinfo>
                    </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Irda">
                    <xs:annotation>
                        <xs:appinfo>
                            <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">26</EnumerationValue>
                            </xs:appinfo>
                        </xs:annotation>
                    </xs:enumeration>
                    <xs:enumeration value="NetworkDesigners">
                        <xs:annotation>
                            <xs:appinfo>
                                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">28</EnumerationValue>
                                </xs:appinfo>
                            </xs:annotation>
                        </xs:enumeration>
                        <xs:enumeration value="Max">
                            <xs:annotation>
                                <xs:appinfo>
                                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">29</EnumerationValue>
                                    </xs:appinfo>
                                </xs:annotation>
                            </xs:enumeration>
                        </xs:restriction>
                    </xs:simpleType>
                    <xs:element name="AddressFamily" nillable="true" type="tns:AddressFamily" />
                </xs:schema>

```

### 6.10.2.6 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Integration>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Integration" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Integration" xmlns:xs="http://www.w3.org/2001/XMLSchema">

```

```

    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:complexType name="O365Information">
        <xs:sequence>
            <xs:element minOccurs="0" name="Activated" type="xs:boolean" />
            <xs:element minOccurs="0" name="Address" nillable="true"
type="tns:CompanyAddress" />
            <xs:element minOccurs="0" name="CompanyName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="InitialDomain" nillable="true" type="xs:string"
/>
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="O365Skus" nillable="true" type="q1:ReadOnlyCollectionOfO365Skug8jlx19J"
/>
            <xs:element minOccurs="0" name="PrimaryDomain" nillable="true" type="xs:string"
/>
            <xs:element minOccurs="0" name="TechnicalContact" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="O365Information" nillable="true" type="tns:O365Information" />
    <xs:complexType name="CompanyAddress">
        <xs:sequence>
            <xs:element minOccurs="0" name="City" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Country" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="PostalCode" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="State" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="Street" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="TelephoneNumber" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="CompanyAddress" nillable="true" type="tns:CompanyAddress" />
    <xs:complexType name="ArrayOfO365Sku">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="O365Sku" nillable="true"
type="tns:O365Sku" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfO365Sku" nillable="true" type="tns:ArrayOfO365Sku" />
    <xs:complexType name="O365Sku">
        <xs:sequence>
            <xs:element minOccurs="0" name="AccountName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="ConsumedLicenses" type="xs:int" />
            <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="O365Services" nillable="true"
type="q2:ReadOnlyCollectionOfO365Serviceg8jlx19J" />
    <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="O365Subscriptions" nillable="true"
type="q3:ReadOnlyCollectionOfO365Subscriptiong8jlx19J" />
        <xs:element minOccurs="0" name="SkuId" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="TotalLicenses" type="xs:int" />
    </xs:sequence>
    </xs:complexType>
    <xs:element name="O365Sku" nillable="true" type="tns:O365Sku" />
    <xs:complexType name="ArrayOfO365Service">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="O365Service"
nillable="true" type="tns:O365Service" />
        </xs:sequence>
    </xs:complexType>

```

```

</xs:complexType>
<xs:element name="ArrayOf0365Service" nillable="true" type="tns:ArrayOf0365Service"
/>
<xs:complexType name="0365Service">
  <xs:sequence>
    <xs:element minOccurs="0" name="Activated" type="xs:boolean" />
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ServicePlan" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="ServiceType" type="tns:0365ServiceTypes" />
  </xs:sequence>
</xs:complexType>
<xs:element name="0365Service" nillable="true" type="tns:0365Service" />
<xs:simpleType name="0365ServiceTypes">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="Unknown">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="ExchangeOnline">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="SharePointOnline">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="LyncOnline">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="IntuneOnline">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">16</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="0365ServiceTypes" nillable="true" type="tns:0365ServiceTypes" />

```

```

    <xs:complexType name="ArrayOf0365Subscription">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="0365Subscription"
nillable="true" type="tns:0365Subscription" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOf0365Subscription" nillable="true"
type="tns:ArrayOf0365Subscription" />
    <xs:complexType name="0365Subscription">
      <xs:sequence>
        <xs:element minOccurs="0" name="BillingExpirationTime" type="xs:dateTime" />
        <xs:element minOccurs="0" name="Expired" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="0365Subscription" nillable="true" type="tns:0365Subscription" />
    <xs:complexType name="0365User">
      <xs:sequence>
        <xs:element minOccurs="0" name="Activated" type="xs:boolean" />
        <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="EmailAddresses" nillable="true" type="q4:ReadOnlyCollectionOfstring" />
        <xs:element minOccurs="0" name="LocalUserName" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="ObjectId" type="ser:guid" />
        <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="UserLicenses" nillable="true"
type="q5:ReadOnlyCollectionOf0365UserLicenseg8jlx19J" />
        <xs:element minOccurs="0" name="UserPrincipalName" nillable="true"
type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="0365User" nillable="true" type="tns:0365User" />
    <xs:complexType name="ArrayOf0365UserLicense">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="0365UserLicense"
nillable="true" type="tns:0365UserLicense" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOf0365UserLicense" nillable="true"
type="tns:ArrayOf0365UserLicense" />
    <xs:complexType name="0365UserLicense">
      <xs:sequence>
        <xs:element minOccurs="0" name="AccountName" nillable="true" type="xs:string" />
        <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="0365Services" nillable="true"
type="q6:ReadOnlyCollectionOf0365Serviceg8jlx19J" />
        <xs:element minOccurs="0" name="SkuId" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="0365UserLicense" nillable="true" type="tns:0365UserLicense" />
    <xs:complexType name="0365ConfigureException">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q7="http://schemas.datacontract.org/2004/07/System"
base="q7:Exception" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="0365ConfigureException" nillable="true"
type="tns:0365ConfigureException" />
    <xs:complexType name="0365UserMap">
      <xs:sequence>
        <xs:element minOccurs="0" name="Error" nillable="true"
type="tns:0365ConfigureException" />
        <xs:element minOccurs="0" name="LocalUserName" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="OnlineUserName" nillable="true" type="xs:string"
/>
      </xs:sequence>

```

```

</xs:complexType>
<xs:element name="O365UserMap" nillable="true" type="tns:O365UserMap" />
<xs:complexType name="ArrayOfO365UserMap">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="O365UserMap"
nillable="true" type="tns:O365UserMap" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfO365UserMap" nillable="true" type="tns:ArrayOfO365UserMap"
/>

<xs:simpleType name="O365ConfigureFault">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unexpected" />
    <xs:enumeration value="Communication" />
    <xs:enumeration value="IncorrectCredential" />
    <xs:enumeration value="AccessDenied" />
    <xs:enumeration value="OnlineUserNotExist" />
    <xs:enumeration value="OnlineUserAlreadyMapped" />
    <xs:enumeration value="LocalUserNotExist" />
    <xs:enumeration value="LocalUserNotMapped" />
    <xs:enumeration value="LocalUserAlreadyMapped" />
    <xs:enumeration value="DomainNotConfigured" />
    <xs:enumeration value="DomainVerifyFailed" />
    <xs:enumeration value="NotActivated" />
    <xs:enumeration value="NotAvailable" />
    <xs:enumeration value="NoSubscription" />
    <xs:enumeration value="NoAvailableLicense" />
    <xs:enumeration value="InvalidLicensesConfig" />
    <xs:enumeration value="LocalProviderIssue" />
    <xs:enumeration value="OnlineServiceIssue" />
    <xs:enumeration value="OnlineUserAlreadyExist" />
    <xs:enumeration value="InvalidPassword" />
    <xs:enumeration value="DeactivateServiceAdminAccount" />
    <xs:enumeration value="RemoveServiceAdminAccount" />
    <xs:enumeration value="RemoveReferencedDomain" />
    <xs:enumeration value="CredentialFromDifferentDomain" />
    <xs:enumeration value="DuplicateEmailAliasInInitialDomain" />
    <xs:enumeration value="EmailAddressAlreadyExist" />
    <xs:enumeration value="InvalidEmailAddress" />
    <xs:enumeration value="UserHasNoExLicense" />
    <xs:enumeration value="MobileDeviceNotFound" />
    <xs:enumeration value="MobileDevicePolicyNotFound" />
    <xs:enumeration value="MobileDevicePolicyConflict" />
    <xs:enumeration value="MobileDeviceAccessRuleNotFound" />
    <xs:enumeration value="MobileDeviceAccessRuleConflict" />
    <xs:enumeration value="MobileDeviceDeleteLimitationReached" />
    <xs:enumeration value="ExGroupIdentityNotFound" />
    <xs:enumeration value="ExAdminHasNoExLicense" />
    <xs:enumeration value="ExGroupNameAlreadyExists" />
    <xs:enumeration value="ExGroupEmailAddressInvalidDomain" />
    <xs:enumeration value="MSOSecurityGroupAlreadyExists" />
    <xs:enumeration value="MSOSecurityGroupNotFound" />
    <xs:enumeration value="MSOSecurityGroupMemberNotFound" />
    <xs:enumeration value="LocalGroupNotExists" />
    <xs:enumeration value="LocalGroupAlreadyMapped" />
    <xs:enumeration value="MSOSecurityGroupAlreadyMapped" />
    <xs:enumeration value="LocalGroupNotMapped" />
    <xs:enumeration value="PwdSyncAccessDenied" />
    <xs:enumeration value="RebootPending" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="O365ConfigureFault" nillable="true" type="tns:O365ConfigureFault"
/>

<xs:complexType name="O365DomainConfiguration">
  <xs:sequence>
    <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="AvailableDomains" nillable="true"
type="q8:ReadOnlyCollectionOfO365Domaing8jlx19J" />

```

```

        <xs:element minOccurs="0" name="CustomDomainName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="CustomDomainStatus" type="tns:0365DomainStatus"
/>
        <xs:element minOccurs="0" name="PrimaryDomainName" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="0365DomainConfiguration" nillable="true"
type="tns:0365DomainConfiguration" />
<xs:complexType name="ArrayOf0365Domain">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="0365Domain"
nillable="true" type="tns:0365Domain" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOf0365Domain" nillable="true" type="tns:ArrayOf0365Domain" />
<xs:complexType name="0365Domain">
    <xs:sequence>
        <xs:element minOccurs="0" name="CapabilityType" type="tns:0365DomainType" />
        <xs:element minOccurs="0" name="IsPrimary" type="xs:boolean" />
        <xs:element minOccurs="0" name="IsVerified" type="xs:boolean" />
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="0365Domain" nillable="true" type="tns:0365Domain" />
<xs:simpleType name="0365DomainType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Email" />
        <xs:enumeration value="Sharepoint" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="0365DomainType" nillable="true" type="tns:0365DomainType" />
<xs:simpleType name="0365DomainStatus">
    <xs:restriction base="xs:string">
        <xs:enumeration value="NotConfigured" />
        <xs:enumeration value="Unverified" />
        <xs:enumeration value="Verified" />
        <xs:enumeration value="VerifyFailed" />
        <xs:enumeration value="FullyConfigured" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="0365DomainStatus" nillable="true" type="tns:0365DomainStatus" />
<xs:complexType name="ArrayOf0365User">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="0365User" nillable="true"
type="tns:0365User" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOf0365User" nillable="true" type="tns:ArrayOf0365User" />
<xs:complexType name="0365InvalidEmailAddressException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:0365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="0365InvalidEmailAddressException" nillable="true"
type="tns:0365InvalidEmailAddressException" />
<xs:complexType name="0365DuplicateEmailAliasException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:0365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="0365DuplicateEmailAliasException" nillable="true"
type="tns:0365DuplicateEmailAliasException" />
<xs:complexType name="AADNoSubscriptionException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:0365ConfigureException" />
    </xs:complexContent>

```

```

        </xs:complexType>
        <xs:element name="AADNoSubscriptionException" nillable="true"
type="tns:AADNoSubscriptionException" />
        <xs:complexType name="O365LicenseConfigurationException">
        <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
        </xs:complexContent>
        </xs:complexType>
        <xs:element name="O365LicenseConfigurationException" nillable="true"
type="tns:O365LicenseConfigurationException" />
        <xs:complexType name="O365LicenseErrorDetail">
        <xs:sequence>
        <xs:element name="_x003C_DependsOnServices_x003E_k__BackingField"
nillable="true" type="tns:ArrayOfO365Service" />
        <xs:element name="_x003C_ErrorType_x003E_k__BackingField"
type="tns:O365LicenseErrorType" />
        <xs:element name=" x003C Services x003E k BackingField" nillable="true"
type="tns:ArrayOfO365Service" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="O365LicenseErrorDetail" nillable="true"
type="tns:O365LicenseErrorDetail" />
        <xs:simpleType name="O365LicenseErrorType">
        <xs:restriction base="xs:string">
        <xs:enumeration value="MutuallyExclusiveViolation" />
        <xs:enumeration value="DependencyViolation" />
        <xs:enumeration value="ProhibitedInUsageLocationViolation" />
        <xs:enumeration value="RestrictedInUsageLocationViolation" />
        <xs:enumeration value="OnPremiseMailboxViolation" />
        <xs:enumeration value="Other" />
        </xs:restriction>
        </xs:simpleType>
        <xs:element name="O365LicenseErrorType" nillable="true"
type="tns:O365LicenseErrorType" />
        <xs:complexType name="ArrayOfO365LicenseErrorDetail">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365LicenseErrorDetail"
nillable="true" type="tns:O365LicenseErrorDetail" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfO365LicenseErrorDetail" nillable="true"
type="tns:ArrayOfO365LicenseErrorDetail" />
        <xs:complexType name="O365EmailAddressAlreadyExistException">
        <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
        </xs:complexContent>
        </xs:complexType>
        <xs:element name="O365EmailAddressAlreadyExistException" nillable="true"
type="tns:O365EmailAddressAlreadyExistException" />
        <xs:complexType name="O365MobileDeviceException">
        <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
        </xs:complexContent>
        </xs:complexType>
        <xs:element name="O365MobileDeviceException" nillable="true"
type="tns:O365MobileDeviceException" />
        <xs:complexType name="ArrayOfO365MailboxStatisticsInfo">
        <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365MailboxStatisticsInfo"
nillable="true" type="tns:O365MailboxStatisticsInfo" />
        </xs:sequence>
        </xs:complexType>
        <xs:element name="ArrayOfO365MailboxStatisticsInfo" nillable="true"
type="tns:ArrayOfO365MailboxStatisticsInfo" />
        <xs:complexType name="O365MailboxStatisticsInfo">
        <xs:sequence>
        <xs:element minOccurs="0" name="MailboxGUID" type="ser:guid" />
        <xs:element minOccurs="0" name="ProhibitSendReceiveQuota" nillable="true"
type="tns:QuotaProperty" />

```

```

        <xs:element minOccurs="0" name="TotalItemSize" nillable="true"
type="tns:QuotaProperty" />
        <xs:element minOccurs="0" name="UserPrincipalName" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="O365MailboxStatisticsInfo" nillable="true"
type="tns:O365MailboxStatisticsInfo" />
<xs:complexType name="QuotaProperty">
    <xs:sequence>
        <xs:element minOccurs="0" name="Quota" type="xs:unsignedLong" />
        <xs:element minOccurs="0" name="unlimited" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
<xs:element name="QuotaProperty" nillable="true" type="tns:QuotaProperty" />
<xs:complexType name="ExchangeDistrGroup">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:ExchangeGroupIdentity">
            <xs:sequence>
                <xs:element
xmlns:q9="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="MemberNames" nillable="true" type="q9:ArrayOfstring" />
                <xs:element minOccurs="0" name="RequireSenderAuthentication"
type="xs:boolean" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ExchangeDistrGroup" nillable="true" type="tns:ExchangeDistrGroup"
/>
<xs:complexType name="ExchangeGroupIdentity">
    <xs:sequence>
        <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="ObjectId" type="ser:guid" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ExchangeGroupIdentity" nillable="true"
type="tns:ExchangeGroupIdentity" />
<xs:complexType name="ExchangeGroupUser">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:ExchangeGroupIdentity">
            <xs:sequence>
                <xs:element minOccurs="0" name="LocalUserName" nillable="true"
type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ExchangeGroupUser" nillable="true" type="tns:ExchangeGroupUser" />
<xs:complexType name="ArrayOfExchangeDistrGroup">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ExchangeDistrGroup"
nillable="true" type="tns:ExchangeDistrGroup" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfExchangeDistrGroup" nillable="true"
type="tns:ArrayOfExchangeDistrGroup" />
<xs:complexType name="ArrayOfExchangeGroupUser">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ExchangeGroupUser"
nillable="true" type="tns:ExchangeGroupUser" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfExchangeGroupUser" nillable="true"
type="tns:ArrayOfExchangeGroupUser" />

```



```

<xs:complexType name="ArrayOfExchangeGroupIdentity">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ExchangeGroupIdentity"
nillable="true" type="tns:ExchangeGroupIdentity" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfExchangeGroupIdentity" nillable="true"
type="tns:ArrayOfExchangeGroupIdentity" />
<xs:complexType name="ExIdentityNotFoundException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:O365ConfigureException" />
  </xs:complexContent>
</xs:complexType>
<xs:element name="ExIdentityNotFoundException" nillable="true"
type="tns:ExIdentityNotFoundException" />
<xs:complexType name="ExGroupNameAlreadyExistsException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:O365ConfigureException" />
  </xs:complexContent>
</xs:complexType>
<xs:element name="ExGroupNameAlreadyExistsException" nillable="true"
type="tns:ExGroupNameAlreadyExistsException" />
<xs:complexType name="EmailAddressInvalidDomainException">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:O365ConfigureException" />
  </xs:complexContent>
</xs:complexType>
<xs:element name="EmailAddressInvalidDomainException" nillable="true"
type="tns:EmailAddressInvalidDomainException" />
<xs:complexType name="MobileDeviceInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="DeviceFriendlyName" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="DeviceID" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DeviceMobileOperator" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="DeviceModel" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DeviceOS" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DevicePhoneNumber" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="DeviceState" type="tns:DeviceStateType" />
    <xs:element minOccurs="0" name="DeviceType" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="FirstSuccessSync" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="Identity" type="ser:guid" />
    <xs:element minOccurs="0" name="IsRemoteWipeSupported" type="xs:boolean" />
    <xs:element minOccurs="0" name="LastSuccessSync" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="Mailbox" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="MobileDeviceInfo" nillable="true" type="tns:MobileDeviceInfo" />
<xs:simpleType name="DeviceStateType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Allowed" />
    <xs:enumeration value="Blocked" />
    <xs:enumeration value="DeviceWipePending" />
    <xs:enumeration value="DeviceWipeSucceeded" />
    <xs:enumeration value="Unknown" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="DeviceStateType" nillable="true" type="tns:DeviceStateType" />
<xs:complexType name="ArrayOfMobileDeviceInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MobileDeviceInfo"
nillable="true" type="tns:MobileDeviceInfo" />
  </xs:sequence>
</xs:complexType>

```

```

    <xs:element name="ArrayOfMobileDeviceInfo" nillable="true"
type="tns:ArrayOfMobileDeviceInfo" />
    <xs:complexType name="MobileDeviceAccessRule">
      <xs:sequence>
        <xs:element minOccurs="0" name="Characteristic" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="Identity" type="ser:guid" />
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="QueryStr" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="MobileDeviceAccessRule" nillable="true"
type="tns:MobileDeviceAccessRule" />
    <xs:complexType name="ArrayOfMobileDeviceAccessRule">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MobileDeviceAccessRule"
nillable="true" type="tns:MobileDeviceAccessRule" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfMobileDeviceAccessRule" nillable="true"
type="tns:ArrayOfMobileDeviceAccessRule" />
    <xs:complexType name="MobileDevicePolicy">
      <xs:sequence>
        <xs:element minOccurs="0" name="AllowSimpleDevicePassword" type="xs:boolean" />
        <xs:element minOccurs="0" name="AlphanumericDevicePasswordRequired"
type="xs:boolean" />
        <xs:element minOccurs="0" name="DeviceEncryptionEnabled" type="xs:boolean" />
        <xs:element minOccurs="0" name="DevicePasswordEnabled" type="xs:boolean" />
        <xs:element minOccurs="0" name="DevicePasswordExpiration" type="xs:int" />
        <xs:element minOccurs="0" name="DevicePasswordHistory" type="xs:int" />
        <xs:element minOccurs="0" name="Identity" type="ser:guid" />
        <xs:element minOccurs="0" name="IsDefault" type="xs:boolean" />
        <xs:element minOccurs="0" name="MaxDevicePasswordFailedAttempts" type="xs:int"
/>
        <xs:element minOccurs="0" name="MaxInactivityTimeDeviceLock" type="xs:int" />
        <xs:element minOccurs="0" name="MinDevicePasswordComplexCharacters"
type="xs:int" />
        <xs:element minOccurs="0" name="MinDevicePasswordLength" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="MobileDevicePolicy" nillable="true" type="tns:MobileDevicePolicy"
/>
    <xs:complexType name="SharePointUser">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:SharePointPrincipal">
          <xs:sequence>
            <xs:element minOccurs="0" name="Email" nillable="true" type="xs:string" />
            <xs:element
xmlns:q10="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="GroupIds" nillable="true" type="q10:ReadOnlyCollectionOfint" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointUser" nillable="true" type="tns:SharePointUser" />
    <xs:complexType name="SharePointPrincipal">
      <xs:sequence>
        <xs:element minOccurs="0" name="Id" type="xs:int" />
        <xs:element minOccurs="0" name="LoginName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="PrincipalType"
type="tns:SharePointPrincipalType" />
        <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="SharePointPrincipal" nillable="true"
type="tns:SharePointPrincipal" />
    <xs:simpleType name="SharePointPrincipalType">
      <xs:list>
        <xs:simpleType>

```

```

        <xs:restriction base="xs:string">
          <xs:enumeration value="None">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="User">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="DistributionList">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="SecurityGroup">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
          <xs:enumeration value="SharePointGroup">
            <xs:annotation>
              <xs:appinfo>
                <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
              </xs:appinfo>
            </xs:annotation>
          </xs:enumeration>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="SharePointPrincipalType" nillable="true"
type="tns:SharePointPrincipalType" />
  <xs:complexType name="SharePointSiteCollection">
    <xs:sequence>
      <xs:element minOccurs="0" name="Id" type="ser:guid" />
      <xs:element
xmlns:q11="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="RoleDefinitions" nillable="true"
type="q11:ReadOnlyCollectionOfSharePointRoleDefinitiong8jlx19J" />
        <xs:element minOccurs="0" name="RootSiteUri" nillable="true" type="xs:anyURI" />
      <xs:element
xmlns:q12="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="SiteGroups" nillable="true"
type="q12:ReadOnlyCollectionOfSharePointGroupg8jlx19J" />
      <xs:element
xmlns:q13="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="SiteUsers" nillable="true"
type="q13:ReadOnlyCollectionOfSharePointUserg8jlx19J" />
        <xs:element minOccurs="0" name="Storage" type="xs:long" />
        <xs:element minOccurs="0" name="StoragePercentageUsed" type="xs:double" />
      </xs:sequence>
    </xs:complexType>
  <xs:element name="SharePointSiteCollection" nillable="true"
type="tns:SharePointSiteCollection" />

```

```

    <xs:complexType name="ArrayOfSharePointRoleDefinition">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointRoleDefinition"
nillable="true" type="tns:SharePointRoleDefinition" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointRoleDefinition" nillable="true"
type="tns:ArrayOfSharePointRoleDefinition" />
    <xs:complexType name="SharePointRoleDefinition">
      <xs:sequence>
        <xs:element minOccurs="0" name="Id" type="xs:int" />
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="RoleTypeKind" type="tns:SharePointRoleType" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="SharePointRoleDefinition" nillable="true"
type="tns:SharePointRoleDefinition" />
    <xs:simpleType name="SharePointRoleType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Guest" />
        <xs:enumeration value="Reader" />
        <xs:enumeration value="Contributor" />
        <xs:enumeration value="WebDesigner" />
        <xs:enumeration value="Administrator" />
        <xs:enumeration value="Editor" />
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="SharePointRoleType" nillable="true" type="tns:SharePointRoleType"
/>
    <xs:complexType name="ArrayOfSharePointGroup">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointGroup"
nillable="true" type="tns:SharePointGroup" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointGroup" nillable="true"
type="tns:ArrayOfSharePointGroup" />
    <xs:complexType name="SharePointGroup">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:SharePointPrincipal">
          <xs:sequence>
            <xs:element
xmlns:q14="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="UserIds" nillable="true" type="q14:ReadOnlyCollectionOfint" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointGroup" nillable="true" type="tns:SharePointGroup" />
    <xs:complexType name="ArrayOfSharePointUser">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointUser"
nillable="true" type="tns:SharePointUser" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointUser" nillable="true"
type="tns:ArrayOfSharePointUser" />
    <xs:complexType name="SharePointSite">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:SharePointSecurableObject">
          <xs:sequence>
            <xs:element minOccurs="0" name="Description" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="Id" type="ser:guid" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointSite" nillable="true"
type="tns:SharePointSite" />
    <xs:complexType name="ArrayOfSharePointSite">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointSite"
nillable="true" type="tns:SharePointSite" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointSite" nillable="true"
type="tns:ArrayOfSharePointSite" />
    <xs:complexType name="SharePointWebPart">
      <xs:sequence>
        <xs:element minOccurs="0" name="Title" type="xs:string" />
        <xs:element minOccurs="0" name="Description" type="xs:string" />
        <xs:element minOccurs="0" name="Id" type="ser:guid" />
        <xs:element
xmlns:q15="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="SubSitesRelativeUri" nillable="true"
type="q15:ReadOnlyCollectionOfanyURI" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="SharePointWebPart" nillable="true"
type="tns:SharePointWebPart" />
    <xs:complexType name="ArrayOfSharePointWebPart">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointWebPart"
nillable="true" type="tns:SharePointWebPart" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointWebPart" nillable="true"
type="tns:ArrayOfSharePointWebPart" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

```

        <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Uri" nillable="true" type="xs:anyURI" />
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="SharePointSite" nillable="true" type="tns:SharePointSite" />
<xs:complexType name="SharePointSecurableObject">
    <xs:sequence>
        <xs:element minOccurs="0" name="HasUniqueRoleAssignments" type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
xmlns:q16="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="RoleAssignments" nillable="true"
type="q16:ReadOnlyCollectionOfSharePointRoleAssignmentg8jlx19J" />
</xs:sequence>
</xs:complexType>
<xs:element name="SharePointSecurableObject" nillable="true"
type="tns:SharePointSecurableObject" />
<xs:complexType name="ArrayOfSharePointRoleAssignment">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointRoleAssignment"
nillable="true" type="tns:SharePointRoleAssignment" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfSharePointRoleAssignment" nillable="true"
type="tns:ArrayOfSharePointRoleAssignment" />
<xs:complexType name="SharePointRoleAssignment">
    <xs:sequence>
        <xs:element minOccurs="0" name="MemberId" type="xs:int" />
        <xs:element minOccurs="0" name="MemberType" type="tns:SharePointPrincipalType"
/>
    </xs:sequence>
</xs:complexType>
xmlns:q17="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="RoleDefinitionBindings" nillable="true"
type="q17:ReadOnlyCollectionOfSharePointRoleDefinitiong8jlx19J" />
</xs:sequence>
</xs:complexType>
<xs:element name="SharePointRoleAssignment" nillable="true"
type="tns:SharePointRoleAssignment" />
<xs:complexType name="SharePointLibrary">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:SharePointSecurableObject">
            <xs:sequence>
                <xs:element minOccurs="0" name="Description" nillable="true"
type="xs:string" />
                <xs:element minOccurs="0" name="EnableVersioning" type="xs:boolean" />
                <xs:element minOccurs="0" name="ForceCheckout" type="xs:boolean" />
                <xs:element minOccurs="0" name="Id" type="ser:guid" />
                <xs:element minOccurs="0" name="LibraryType"
type="tns:SharePointLibraryType" />
                <xs:element minOccurs="0" name="ParentSiteUri" nillable="true"
type="xs:anyURI" />
                <xs:element minOccurs="0" name="RelativeUri" nillable="true"
type="xs:anyURI" />
                <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="SharePointLibrary" nillable="true" type="tns:SharePointLibrary" />
<xs:simpleType name="SharePointLibraryType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="InvalidType">
            <xs:annotation>
                <xs:appinfo>
                    <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">-1</EnumerationValue>
                </xs:appinfo>
            </xs:annotation>
        </xs:enumeration>
    </xs:restriction>
</xs:simpleType>

```

```

        </xs:enumeration>
        <xs:enumeration value="NoListTemplate">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">0</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="DocumentLibrary">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">101</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="PictureLibrary">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">109</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
        <xs:enumeration value="WebPageLibrary">
          <xs:annotation>
            <xs:appinfo>
              <EnumerationValue
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">119</EnumerationValue>
            </xs:appinfo>
          </xs:annotation>
        </xs:enumeration>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="SharePointLibraryType" nillable="true"
type="tns:SharePointLibraryType" />
    <xs:complexType name="ArrayOfSharePointLibrary">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="SharePointLibrary"
nillable="true" type="tns:SharePointLibrary" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfSharePointLibrary" nillable="true"
type="tns:ArrayOfSharePointLibrary" />
    <xs:complexType name="SharePointException">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q18="http://schemas.datacontract.org/2004/07/System"
base="q18:Exception" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointException" nillable="true"
type="tns:SharePointException" />
    <xs:simpleType name="SharePointFault">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Unexpected" />
        <xs:enumeration value="SPOServerNotFound" />
        <xs:enumeration value="SPOUnauthorized" />
        <xs:enumeration value="SPOClientRequestFailed" />
        <xs:enumeration value="SPOInvalidQuery" />
        <xs:enumeration value="SPOServerOperationFailed" />
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="SharePointFault" nillable="true" type="tns:SharePointFault" />
    <xs:complexType name="MSOSecurityGroup">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:MSOSecurityIdentity">
          <xs:sequence>

```

```

        <xs:element minOccurs="0" name="Description" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="LocalGroupName" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="MSOSecurityGroup" nillable="true" type="tns:MSOSecurityGroup" />
<xs:complexType name="MSOSecurityIdentity">
    <xs:sequence>
        <xs:element minOccurs="0" name="DisplayName" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="ObjectId" type="ser:guid" />
        <xs:element minOccurs="0" name="PrincipleName" nillable="true" type="xs:string"
/>
    </xs:sequence>
</xs:complexType>
<xs:element name="MSOSecurityIdentity" nillable="true"
type="tns:MSOSecurityIdentity" />
<xs:complexType name="ArrayOfMSOSecurityGroup">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MSOSecurityGroup"
nillable="true" type="tns:MSOSecurityGroup" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMSOSecurityGroup" nillable="true"
type="tns:ArrayOfMSOSecurityGroup" />
<xs:complexType name="SharePointSiteAddressCollection">
    <xs:sequence>
        <xs:element minOccurs="0" name="MySiteAddress" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="TeamSiteAddress" nillable="true"
type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="SharePointSiteAddressCollection" nillable="true"
type="tns:SharePointSiteAddressCollection" />
<xs:simpleType name="MobileDeviceExtraInfoType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="DeviceFamily" />
        <xs:enumeration value="DeviceModel" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="MobileDeviceExtraInfoType" nillable="true"
type="tns:MobileDeviceExtraInfoType" />
<xs:complexType name="O365UserUpdatedEventArgs">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q19="http://schemas.datacontract.org/2004/07/System"
base="q19:EventArgs">
            <xs:sequence>
                <xs:element minOccurs="0" name="IsMappingChanged" type="xs:boolean" />
                <xs:element minOccurs="0" name="User" nillable="true" type="tns:O365User" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="O365UserUpdatedEventArgs" nillable="true"
type="tns:O365UserUpdatedEventArgs" />
<xs:complexType name="O365InformationUpdatedEventArgs">
    <xs:complexContent mixed="false">
        <xs:extension xmlns:q20="http://schemas.datacontract.org/2004/07/System"
base="q20:EventArgs">
            <xs:sequence>
                <xs:element minOccurs="0" name="Information" nillable="true"
type="tns:O365Information" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

    <xs:element name="O365InformationUpdatedEventArgs" nillable="true"
type="tns:O365InformationUpdatedEventArgs" />
    <xs:complexType name="O365DomainConfigurationUpdateEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q21="http://schemas.datacontract.org/2004/07/System"
base="q21:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="DomainConfiguration" nillable="true"
type="tns:O365DomainConfiguration" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="O365DomainConfigurationUpdateEventArgs" nillable="true"
type="tns:O365DomainConfigurationUpdateEventArgs" />
    <xs:complexType name="ExchangeGroupInfoUpdatedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q22="http://schemas.datacontract.org/2004/07/System"
base="q22:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="DistrGroups" nillable="true"
type="tns:ArrayOfExchangeDistrGroup" />
            <xs:element minOccurs="0" name="GroupUsers" nillable="true"
type="tns:ArrayOfExchangeGroupUser" />
            <xs:element minOccurs="0" name="O365Users" nillable="true"
type="tns:ArrayOfO365User" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="ExchangeGroupInfoUpdatedEventArgs" nillable="true"
type="tns:ExchangeGroupInfoUpdatedEventArgs" />
    <xs:complexType name="MSOSecurityGroupUpdatedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q23="http://schemas.datacontract.org/2004/07/System"
base="q23:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="Group" nillable="true"
type="tns:MSOSecurityGroup" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="MSOSecurityGroupUpdatedEventArgs" nillable="true"
type="tns:MSOSecurityGroupUpdatedEventArgs" />
    <xs:complexType name="SharePointSiteUpdatedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q24="http://schemas.datacontract.org/2004/07/System"
base="q24:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="Site" nillable="true"
type="tns:SharePointSite" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointSiteUpdatedEventArgs" nillable="true"
type="tns:SharePointSiteUpdatedEventArgs" />
    <xs:complexType name="SharePointLibraryAddedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q25="http://schemas.datacontract.org/2004/07/System"
base="q25:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="Library" nillable="true"
type="tns:SharePointLibrary" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>

```



```

    <xs:element name="SharePointLibraryAddedEventArgs" nillable="true"
type="tns:SharePointLibraryAddedEventArgs" />
    <xs:complexType name="SharePointLibraryRemovedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q26="http://schemas.datacontract.org/2004/07/System"
base="q26:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="Library" nillable="true"
type="tns:SharePointLibrary" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointLibraryRemovedEventArgs" nillable="true"
type="tns:SharePointLibraryRemovedEventArgs" />
    <xs:complexType name="SharePointLibraryUpdatedEventArgs">
      <xs:complexContent mixed="false">
        <xs:extension xmlns:q27="http://schemas.datacontract.org/2004/07/System"
base="q27:EventArgs">
          <xs:sequence>
            <xs:element minOccurs="0" name="Library" nillable="true"
type="tns:SharePointLibrary" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SharePointLibraryUpdatedEventArgs" nillable="true"
type="tns:SharePointLibraryUpdatedEventArgs" />
  </xs:schema>

```

### 6.10.2.7 <http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAccess.Domains>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteA
ccess.Domains" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.R
emoteAccess.Domains" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xs:complexType name="DnsRecord">
      <xs:sequence>
        <xs:element minOccurs="0" name="Label" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="TimeToLive" type="ser:duration" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="DnsRecord" nillable="true" type="tns:DnsRecord" />
    <xs:complexType name="ARecord">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:DnsRecord">
          <xs:sequence>
            <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="Address" nillable="true" type="q1:IPAddress" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="ARecord" nillable="true" type="tns:ARecord" />
    <xs:complexType name="MXRecord">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:DnsRecord">
          <xs:sequence>
            <xs:element minOccurs="0" name="MailExchange" nillable="true"
type="xs:string" />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>

```

```

        <xs:element minOccurs="0" name="MailExchangePreference" type="xs:int" />
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="MXRecord" nillable="true" type="tns:MXRecord" />
<xs:complexType name="SrvRecord">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:DnsRecord">
            <xs:sequence>
                <xs:element minOccurs="0" name="Port" type="xs:int" />
                <xs:element minOccurs="0" name="Priority" type="xs:int" />
                <xs:element minOccurs="0" name="Protocol" nillable="true" type="xs:string"
/>
                <xs:element minOccurs="0" name="Service" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="Target" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="Weight" type="xs:int" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="SrvRecord" nillable="true" type="tns:SrvRecord" />
<xs:complexType name="TxtRecord">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:DnsRecord">
            <xs:sequence>
                <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="TxtRecord" nillable="true" type="tns:TxtRecord" />
<xs:complexType name="CNameRecord">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:DnsRecord">
            <xs:sequence>
                <xs:element minOccurs="0" name="CanonicalName" nillable="true"
type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="CNameRecord" nillable="true" type="tns:CNameRecord" />
<xs:complexType name="ArrayOfDnsRecord">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="DnsRecord" nillable="true"
type="tns:DnsRecord" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDnsRecord" nillable="true" type="tns:ArrayOfDnsRecord" />
</xs:schema>

```

### 6.10.2.8 <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="ArrayOfstring">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>

```

```

</xs:complexType>
<xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
<xs:complexType name="ArrayOfunsignedShort">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedShort"
type="xs:unsignedShort" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfunsignedShort" nillable="true"
type="tns:ArrayOfunsignedShort" />
<xs:complexType name="ArrayOfguid">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
<xs:complexType name="ArrayOfint">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfint" nillable="true" type="tns:ArrayOfint" />
<xs:complexType name="ArrayOfanyURI">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="anyURI" nillable="true"
type="xs:anyURI" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfanyURI" nillable="true" type="tns:ArrayOfanyURI" />
</xs:schema>

```

### 6.10.2.9 <http://schemas.datacontract.org/2004/07/System.Net>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Net"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.Net.Sockets" />
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:complexType name="IPAddress">
    <xs:sequence>
      <xs:element name="m_Address" type="xs:long" />
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Net.Sockets" name="m_Family"
type="q1:AddressFamily" />
      <xs:element name="m_HashCode" type="xs:int" />
      <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="m_Numbers" nillable="true" type="q2:ArrayOfunsignedShort" />
      <xs:element name="m_ScopeId" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="IPAddress" nillable="true" type="tns:IPAddress" />
</xs:schema>

```

### 6.10.2.10 <http://schemas.datacontract.org/2004/07/System.ServiceModel.Security>

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
elementFormDefault="qualified"

```

```

targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System.ServiceModel" />
  <xs:complexType name="SecurityAccessDeniedException">
    <xs:complexContent mixed="false">
      <xs:extension
xmlns:q1="http://schemas.datacontract.org/2004/07/System.ServiceModel"
base="q1:CommunicationException" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SecurityAccessDeniedException" nillable="true"
type="tns:SecurityAccessDeniedException" />
  </xs:schema>

```

### 6.10.2.11 <http://schemas.datacontract.org/2004/07/System.ServiceModel>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.ServiceModel"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.ServiceModel"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:complexType name="CommunicationException">
    <xs:complexContent mixed="false">
      <xs:extension xmlns:q1="http://schemas.datacontract.org/2004/07/System"
base="q1:SystemException" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CommunicationException" nillable="true"
type="tns:CommunicationException" />
</xs:schema>

```

### 6.10.2.12 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
  <xs:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="Exception">
    <xs:sequence>
      <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
processContents="skip" />
    </xs:sequence>
    <xs:attribute ref="ser:FactoryType" />
  </xs:complexType>
  <xs:element name="Exception" nillable="true" type="tns:Exception" />
  <xs:complexType name="SystemException">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:Exception" />
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
  <xs:complexType name="EventArgs">
    <xs:sequence />
  </xs:complexType>
  <xs:element name="EventArgs" nillable="true" type="tns:EventArgs" />
</xs:schema>

```

## 6.11 Client Notification Service WSDL

### 6.11.1 wsdl

```
<?xml version="1.0" encoding="utf-8"?>
  <wsdl:definitions xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsa10="http://www.w3.org/2005/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:microsoft="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="ClientNotificationProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding IClientNotificationProvider policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <msb:BinaryEncoding
xmlns:msb="http://schemas.microsoft.com/ws/06/2004/mspolicy/netbinary1" />
        <sp:TransportBinding
xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
          <wsp:Policy>
            <sp:TransportToken>
              <wsp:Policy>
                <msf:WindowsTransportSecurity
xmlns:msf="http://schemas.microsoft.com/ws/2006/05/framing/policy">
                  <msf:ProtectionLevel>EncryptAndSign</msf:ProtectionLevel>
                </msf:WindowsTransportSecurity>
              </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                <sp:Basic256 />
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                <sp:Strict />
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>
  <wsdl:types>
    <xsd:schema targetNamespace="http://tempuri.org/Imports">
      <xsd:import schemaLocation="" namespace="http://tempuri.org/" />
      <xsd:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
      <xsd:import schemaLocation=""
namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="IClientNotificationProvider NotifyClientByName InputMessage">
    <wsdl:part name="parameters" element="tns:NotifyClientByName" />
  </wsdl:message>
  <wsdl:message name="IClientNotificationProvider_NotifyClientByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:NotifyClientByNameResponse" />
  </wsdl:message>
  <wsdl:message
name="IClientNotificationProvider_NotifyClientByName_InvalidOperationExceptionFault_FaultMe
ssage">
```

```

        <wsdl:part xmlns:q1="http://schemas.datacontract.org/2004/07/System" name="detail"
element="q1:InvalidOperationException" />
    </wsdl:message>
    <wsdl:message name="IClientNotificationProvider_NotifyClientById_InputMessage">
        <wsdl:part name="parameters" element="tns:NotifyClientById" />
    </wsdl:message>
    <wsdl:message name="IClientNotificationProvider_NotifyClientById_OutputMessage">
        <wsdl:part name="parameters" element="tns:NotifyClientByIdResponse" />
    </wsdl:message>
    <wsdl:message name="IClientNotificationProvider_NotifyAllClients_InputMessage">
        <wsdl:part name="parameters" element="tns:NotifyAllClients" />
    </wsdl:message>
    <wsdl:message name="IClientNotificationProvider_NotifyAllClients_OutputMessage">
        <wsdl:part name="parameters" element="tns:NotifyAllClientsResponse" />
    </wsdl:message>
    <wsdl:portType name="IClientNotificationProvider">
        <wsdl:operation name="NotifyClientByName">
            <wsdl:input
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientByName"
message="tns:IClientNotificationProvider_NotifyClientByName_InputMessage" />
            <wsdl:output
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientByNameResponse"
message="tns:IClientNotificationProvider_NotifyClientByName_OutputMessage" />
            <wsdl:fault
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientByNameInvalidOperat
ionExceptionFault" name="InvalidOperationExceptionFault"
message="tns:IClientNotificationProvider_NotifyClientByName_InvalidOperationExceptionFault_
FaultMessage" />
            </wsdl:operation>
            <wsdl:operation name="NotifyClientById">
                <wsdl:input
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientById"
message="tns:IClientNotificationProvider_NotifyClientById_InputMessage" />
                <wsdl:output
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyClientByIdResponse"
message="tns:IClientNotificationProvider_NotifyClientById_OutputMessage" />
            </wsdl:operation>
            <wsdl:operation name="NotifyAllClients">
                <wsdl:input
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyAllClients"
message="tns:IClientNotificationProvider_NotifyAllClients_InputMessage" />
                <wsdl:output
wsaw:Action="http://tempuri.org/IClientNotificationProvider/NotifyAllClientsResponse"
message="tns:IClientNotificationProvider_NotifyAllClients_OutputMessage" />
            </wsdl:operation>
        </wsdl:portType>
        <wsdl:binding name="CustomBinding_IClientNotificationProvider"
type="tns:IClientNotificationProvider">
            <wsp:PolicyReference URI="#CustomBinding_IClientNotificationProvider_policy" />
            <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
            <wsdl:operation name="NotifyClientByName">
                <soap12:operation
soapAction="http://tempuri.org/IClientNotificationProvider/NotifyClientByName"
style="document" />
                <wsdl:input>
                    <soap12:body use="literal" />
                </wsdl:input>
                <wsdl:output>
                    <soap12:body use="literal" />
                </wsdl:output>
                <wsdl:fault name="InvalidOperationExceptionFault">
                    <soap12:fault use="literal" name="InvalidOperationExceptionFault" namespace=""
/>
            </wsdl:fault>
            </wsdl:operation>
            <wsdl:operation name="NotifyClientById">
                <soap12:operation
soapAction="http://tempuri.org/IClientNotificationProvider/NotifyClientById"
style="document" />

```

```

        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="NotifyAllClients">
        <soap12:operation
soapAction="http://tempuri.org/IClientNotificationProvider/NotifyAllClients"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
    </wsdl:binding>
    <wsdl:service name="ClientNotificationProvider">
      <wsdl:port name="CustomBinding_IClientNotificationProvider"
binding="tns:CustomBinding_IClientNotificationProvider">
        <soap12:address
location="net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.ClientNotificationProv
ider/Microsoft.WindowsServerSolutions.Client.Notification.IClientNotificationProvider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.ClientNotificatio
nProvider/Microsoft.WindowsServerSolutions.Client.Notification.IClientNotificationProvider<
/wsa10:Address>
          <Identity xmlns="http://schemas.xmlsoap.org/ws/2006/02/addressingidentity">
            <Spn>host/serverName.domain</Spn>
          </Identity>
        </wsa10:EndpointReference>
      </wsdl:port>
    </wsdl:service>
  </wsdl:definitions>

```

## 6.11.2 http://tempuri.org

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://tempuri.org/" elementFormDefault="qualified"
targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/System" />
  <xs:element name="NotifyClientByName">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
        <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="NotifyClientByNameResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="NotifyClientByNameResult" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="NotifyClientById">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="id" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
        <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="NotifyClientByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="NotifyClientByIdResult" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="NotifyAllClients">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="messageId" type="xs:unsignedInt" />
            <xs:element minOccurs="0" name="message" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="NotifyAllClientsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q1="http://schemas.datacontract.org/2004/07/System"
minOccurs="0" name="NotifyAllClientsResult" nillable="true"
type="q1:ArrayOfTupleOfstringboolean" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>

```

### 6.11.3 http://schemas.microsoft.com/2003/10/Serialization

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType" />
    <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
    <xs:element name="boolean" nillable="true" type="xs:boolean" />
    <xs:element name="byte" nillable="true" type="xs:byte" />
    <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
    <xs:element name="decimal" nillable="true" type="xs:decimal" />
    <xs:element name="double" nillable="true" type="xs:double" />
    <xs:element name="float" nillable="true" type="xs:float" />
    <xs:element name="int" nillable="true" type="xs:int" />
    <xs:element name="long" nillable="true" type="xs:long" />
    <xs:element name="QName" nillable="true" type="xs:QName" />
    <xs:element name="short" nillable="true" type="xs:short" />
    <xs:element name="string" nillable="true" type="xs:string" />
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
    <xs:element name="char" nillable="true" type="tns:char" />
    <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns:duration" />
    <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
            <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="guid" nillable="true" type="tns:guid" />

```



```

    <xs:simpleType name="guid">
      <xs:restriction base="xs:string">
        <xs:pattern value="\{8\}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
      </xs:restriction>
    </xs:simpleType>
    <xs:attribute name="FactoryType" type="xs:QName" />
    <xs:attribute name="Id" type="xs:ID" />
    <xs:attribute name="Ref" type="xs:IDREF" />
  </xs:schema>

```

#### 6.11.4 <http://schemas.datacontract.org/2004/07/System>

```

<?xml version="1.0" encoding="utf-8"?>
  <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
    xmlns:tns="http://schemas.datacontract.org/2004/07/System" elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import schemaLocation=""
      namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="InvalidOperationException">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:SystemException" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="InvalidOperationException" nillable="true"
      type="tns:InvalidOperationException" />
    <xs:complexType name="SystemException">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:Exception" />
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SystemException" nillable="true" type="tns:SystemException" />
    <xs:complexType name="Exception">
      <xs:sequence>
        <xs:any minOccurs="0" maxOccurs="unbounded" namespace="##local"
          processContents="skip" />
      </xs:sequence>
      <xs:attribute ref="ser:FactoryType" />
    </xs:complexType>
    <xs:element name="Exception" nillable="true" type="tns:Exception" />
    <xs:complexType name="ArrayOfTupleOfstringboolean">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="TupleOfstringboolean"
          nillable="true" type="tns:TupleOfstringboolean" />
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfTupleOfstringboolean" nillable="true"
      type="tns:ArrayOfTupleOfstringboolean" />
    <xs:complexType name="TupleOfstringboolean">
      <xs:annotation>
        <xs:appinfo>
          <GenericType Name="TupleOf{0}{1}{#}"
            Namespace="http://schemas.datacontract.org/2004/07/System"
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
            <GenericParameter Name="string" Namespace="http://www.w3.org/2001/XMLSchema" />
          </GenericType>
          <GenericType Name="boolean"
            Namespace="http://www.w3.org/2001/XMLSchema" />
        </xs:appinfo>
      </xs:annotation>
      <xs:sequence>
        <xs:element name="m_Item1" nillable="true" type="xs:string" />
        <xs:element name="m_Item2" type="xs:boolean" />
      </xs:sequence>
    </xs:complexType>

```

```
<xs:element name="TupleOfstringboolean" nillable="true"
type="tns:TupleOfstringboolean" />
</xs:schema>
```

## 7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

The terms "earlier" and "later", when used with a product version, refer to either all preceding versions or all subsequent versions, respectively. The term "through" refers to the inclusive range of versions. Applicable Microsoft products are listed chronologically in this section.

### Windows Client

- Windows 7 operating system with Service Pack 1 (SP1)
- Windows 8 operating system

### Windows Server

- Windows Server 2008 R2 operating system with Service Pack 1 (SP1)
- Windows Server 2012 operating system
- Windows Server 2012 R2 operating system
- Windows Server 2016 operating system
- Windows Server 2019 operating system
- Windows Server 2022 operating system
- Windows Server 2025 operating system

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.2.4](#): Windows uses this for non-Windows client platforms.

[<2> Section 2.2.4.5.2](#): Windows uses this as the Windows SID of this user.

[<3> Section 2.2.4.5.2](#): Windows uses this as the Windows account of this user.

[<4> Section 2.2.4.7.3](#): In Windows, this contains non-Windows client binaries.

[<5> Section 2.2.4.7.6](#): Windows uses this for non-Windows client platforms.

[<6> Section 2.2.4.8.2](#): The `VirtualNetworkSettings` type is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, Windows Server 2012, and Windows Server 2012 R2.

[<7> Section 2.2.4.8.3](#): The `AddressPrefix` type is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, Windows Server 2012, and Windows Server 2012 R2.

[<8> Section 2.2.5.6.1](#): The implementation is defined by the platform, but could be (as an example) Windows identity.

<9> [Section 2.2.5.6.1](#): The implementation is defined by the platform, but could be (as an example) **Active Directory** (AD) machine accounts or certificates.

<10> [Section 2.2.5.10](#): AzureAD and HostedEmail Integration are not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012.

<11> [Section 2.2.5.10.2](#): InvalidPassword is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012. Support for this type in Windows Server 2012 R2 requires [\[MSKB-2975719\]](#).

<12> [Section 3.2.1.2](#): In Windows, the schedule can be saved in the Windows task scheduler.

<13> [Section 3.4.5.5](#): IMachineIdentityProvider.ReturnRemoveMachine is available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012 only.

<14> [Section 3.4.5.8](#): IMachineIdentityProvider.RemoveMachine is available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012 only.

<15> [Section 3.5.1.1.1.1](#): Windows uses this as the Windows account of this user.

<16> [Section 3.5.1.1.1.1](#): Windows uses this as the Windows SID of this user.

<17> [Section 3.5.5.1](#): IUserLogonProvider.LogonUser is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012.

<18> [Section 3.5.5.2](#): IUserChangePasswordProvider.ChangePassword is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012.

<19> [Section 3.10.5](#): In Windows Server 2012 R2 and later, the IO365ClientProvider functionality is replaced by IPasswordSyncClientProvider.

<20> [Section 3.10.5.2](#): The IPasswordSyncClientProvider.RaiseOperationInvokeEvent operation is named Provider.RaiseOperationInvokeEvent in Windows Server 2012.

<21> [Section 3.10.5.3](#): In Windows Server 2012 R2 and later, IO365ClientProvider.GetSharePointAddress functionality is replaced by IPasswordSyncClientProvider.

<22> [Section 3.10.5.4](#): IO365ClientProvider.IsActivated is available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012 only.

<23> [Section 3.10.5.7](#): IO365ClientProvider.GetEmailAddress is available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012 only.

<24> [Section 3.11.1](#): Client Notification Service Contract is not available in Windows 7 SP1, Windows Server 2008 R2 SP1, Windows 8, and Windows Server 2012.

<25> [Section 5.1.2](#): In Windows, the certificate can be retrieved using Microsoft.WindowsServerSolutions.Devices.Identity.MachineIdentityManager.GetLocalMachineCert method in the Windows Server Solutions SDK. See [\[MSDN-GetLocMachCert\]](#).

## 8 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

Section	Description	Revision class
<a href="#">Z</a> Appendix B: Product Behavior	Added Windows Server 2025 to the list of applicable products.	Major

## 9 Index

### A

Abstract data model  
[Addin management](#) 258  
[AzureAD and HostedEmail integration](#) 306  
[client backup provider](#) 109  
[client file backup provider](#) 104  
[client notification](#) 316  
[domain infrastructure](#) 288  
[health provider](#) 188  
[machine identity provider](#) 217  
[network](#) 280  
[provider registry](#) 242  
[user identity provider](#) 231  
Addin management  
[abstract data model](#) 258  
[higher-layered triggered events](#) 258  
[initialization](#) 258  
[local events](#) 280  
[message processing](#) 259  
[sequencing rules](#) 259  
[timer events](#) 280  
[timers](#) 258  
[Applicability](#) 33  
AzureAD and HostedEmail integration  
[abstract data model](#) 306  
[higher-layer triggered events](#) 306  
[initialization](#) 306  
[local events](#) 316  
[message processing](#) 306  
[sequencing rules](#) 306  
[timer events](#) 316  
[timers](#) 306

### C

[Capability negotiation](#) 33  
[Change tracking](#) 577  
Client backup provider  
[abstract data model](#) 109  
[higher-layer triggered events](#) 110  
[initialization](#) 110  
[local events](#) 188  
[message processing](#) 110  
[sequencing rules](#) 110  
[timer events](#) 188  
[timers](#) 110  
Client file backup provider  
[abstract data model](#) 104  
[higher-layer triggered events](#) 104  
[initialization](#) 104  
[local events](#) 109  
[message processing](#) 104  
[sequencing rules](#) 104  
[timer events](#) 109  
[timers](#) 104  
Client notification  
[abstract data model](#) 316  
[higher-layer triggered events](#) 316  
[initialization](#) 316  
[message processing](#) 317

[sequencing rules](#) 317  
[timers](#) 316  
[Complex types](#) 37

### D

Data model – abstract  
[Addin management](#) 258  
[AzureAD and HostedEmail integration](#) 306  
[client backup provider](#) 109  
[client file backup provider](#) 104  
[client notification](#) 316  
[domain infrastructure](#) 288  
[health provider](#) 188  
[machine identity provider](#) 217  
[network](#) 280  
[provider registry](#) 242  
[user identity provider](#) 231  
Domain infrastructure  
[abstract data model](#) 288  
[higher-layer triggered events](#) 288  
[initialization](#) 288  
[local events](#) 306  
[message processing](#) 288  
[sequencing rules](#) 288  
[timer events](#) 306  
[timers](#) 288

### E

Events  
[local - client file backup provider](#) 109  
[timer - client file backup provider](#) 109  
Example  
[Get the computer backup service status](#) 324

### F

[Fields - vendor-extensible](#) 34

### G

[Get the computer backup service status example](#) 324  
[Glossary](#) 30

### H

Health provider  
[abstract data model](#) 188  
[higher-layer triggered events](#) 189  
[initialization](#) 189  
[local events](#) 217  
[message processing](#) 189  
[sequencing rules](#) 189  
[timer events](#) 216  
[timers](#) 189  
Higher-layer triggered events  
[Addin management](#) 258  
[AzureAD and HostedEmail integration](#) 306  
[client backup provider](#) 110  
[client file backup provider](#) 104

- [client notification](#) 316
- [domain infrastructure](#) 288
- [health provider](#) 189
- [machine identity provider](#) 217
- [network](#) 281
- [provider registry](#) 242
- [user identity provider](#) 232

## I

- [Implementer - security considerations](#) 325
- [Index of security parameters](#) 325
- [Informative references](#) 32
- Initialization
  - [Addin management](#) 258
  - [AzureAD and HostedEmail integration](#) 306
  - [client backup provider](#) 110
  - [client file backup provider](#) 104
  - [client notification](#) 316
  - [domain infrastructure](#) 288
  - [health provider](#) 189
  - [machine identity provider](#) 217
  - [network](#) 280
  - [provider registry](#) 242
  - [user identity provider](#) 232
- [Introduction](#) 30

## L

- Local events
  - [Addin management](#) 280
  - [AzureAD and HostedEmail integration](#) 316
  - [client backup provider](#) 188
  - [client file backup provider](#) 109
  - [domain infrastructure](#) 306
  - [health provider](#) 217
  - [machine identity provider](#) 231
  - [network](#) 288
  - [provider registry](#) 258
  - [user identity provider](#) 242

## M

- Machine identity provider
  - [abstract data model](#) 217
  - [higher-layer triggered events](#) 217
  - [initialization](#) 217
  - [local events](#) 231
  - [message processing](#) 217
  - [sequencing rules](#) 217
  - [timer events](#) 230
  - [timers](#) 217
- Message processing
  - [Addin management](#) 259
  - [AzureAD and HostedEmail integration](#) 306
  - [client backup provider](#) 110
  - [client file backup provider](#) 104
  - [client notification](#) 317
  - [domain infrastructure](#) 288
  - [health provider](#) 189
  - [machine identity provider](#) 217
  - [network](#) 281
  - [provider registry](#) 242
  - [user identity provider](#) 232
- [Message syntax](#) 35

- Messages
  - [complex types](#) 37
  - [elements](#) 36
  - [enumerated](#) 36
  - [message syntax](#) 35
  - [namespaces](#) 35
  - [simple types](#) 70
  - [transport](#) 35

## N

- [Namespaces](#) 35
- Network
  - [abstract data model](#) 280
  - [higher-layer triggered events](#) 281
  - [initialization](#) 280
  - [local events](#) 288
  - [message processing](#) 281
  - [sequencing rules](#) 281
  - [timer events](#) 288
  - [timers](#) 280
- [Normative references](#) 31

## O

- [Overview \(synopsis\)](#) 32

## P

- [Parameters - security index](#) 325
- [Preconditions](#) 33
- [Prerequisites](#) 33
- [Product behavior](#) 575
- Provider registry
  - [abstract data model](#) 242
  - [higher-layer triggered events](#) 242
  - [initialization](#) 242
  - [local events](#) 258
  - [message processing](#) 242
  - [sequencing rules](#) 242
  - [timer events](#) 258
  - [timers](#) 242

## R

- [References](#) 31
  - [informative](#) 32
  - [normative](#) 31
- [Relationship to other protocols](#) 33

## S

- Security
  - [implementer considerations](#) 325
  - [parameter index](#) 325
- Sequencing rules
  - [Addin management](#) 259
  - [AzureAD and HostedEmail integration](#) 306
  - [client backup provider](#) 110
  - [client file backup provider](#) 104
  - [client notification](#) 317
  - [domain infrastructure](#) 288
  - [health provider](#) 189
  - [machine identity provider](#) 217

- [network](#) 281
- [provider registry](#) 242
- [user identity provider](#) 232
- Service contracts
  - [Addin management](#) 258
  - [AzureAD and HostedEmail integration](#) 306
  - [client backup provider](#) 109
  - [client file backup provider](#) 104
  - [client notification](#) 316
  - [domain infrastructure](#) 288
  - [health provider](#) 188
  - [machine identity provider](#) 217
  - [network](#) 280
  - [provider registry](#) 242
  - [user identity provider](#) 231
- [Simple types](#) 70
- [Standards assignments](#) 34

## T

- Timer events
  - [Addin management](#) 280
  - [AzureAD and HostedEmail integration](#) 316
  - [client backup provider](#) 188
  - [client file backup provider](#) 109
  - [domain infrastructure](#) 306
  - [health provider](#) 216
  - [machine identity provider](#) 230
  - [network](#) 288
  - [provider registry](#) 258
  - [user identity provider](#) 242

## Timers

- [Addin management](#) 258
- [AzureAD and HostedEmail integration](#) 306
- [client backup provider](#) 110
- [client file backup provider](#) 104
- [client notification](#) 316
- [domain infrastructure](#) 288
- [health provider](#) 189
- [machine identity provider](#) 217
- [network](#) 280
- [provider registry](#) 242
- [user identity provider](#) 232

[Tracking changes](#) 577

[Transport](#) 35

## Triggered events

- [Addin management](#) 258
- [AzureAD and HostedEmail integration](#) 306
- [client backup provider](#) 110
- [client file backup provider](#) 104
- [client notification](#) 316
- [domain infrastructure](#) 288
- [health provider](#) 189
- [machine identity provider](#) 217
- [network](#) 281
- [provider registry](#) 242
- [user identity provider](#) 232

## Types

- [complex](#) 37
- [simple](#) 70

## U

### User identity provider

- [abstract data model](#) 231

- [higher-layer triggered events](#) 232
- [initialization](#) 232
- [local events](#) 242
- [message processing](#) 232
- [sequencing rules](#) 232
- [timer events](#) 242
- [timers](#) 232

## V

- [Vendor-extensible fields](#) 34
- [Versioning](#) 33