

[MS-WCFESAN-Diff]:

WCF-Based Encrypted Server Administration and Notification Protocol

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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: A general-purpose network directory service. Active Directory also refers to the Windows implementation of a directory service. Active Directory stores information about a variety of objects in the network. Importantly, user accounts, computer accounts, groups, and all related credential information used by the Windows implementation of Kerberos are stored in Active Directory. Active Directory is either deployed as Active Directory Domain Services (AD DS) or Active Directory Lightweight Directory Services (AD LDS). [MS-ADTS] describes both forms. For more information, see [MS-AUTHSOD] section 1.1.1.5.2, Lightweight Directory Access Protocol (LDAP) versions 2 and 3, Kerberos, and DNS.

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 ~~(1)~~ 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 ~~(2)~~ 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 ~~in Windows~~ 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. We will assist you in finding the relevant information.

[IANAPORT] IANA, "Service Name and Transport Protocol Port Number Registry", ~~November 2006~~, <http://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".

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[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://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, <http://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.windowsserversolutions.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.windowsserversolutions.common.providerframework.providerexception>

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

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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.

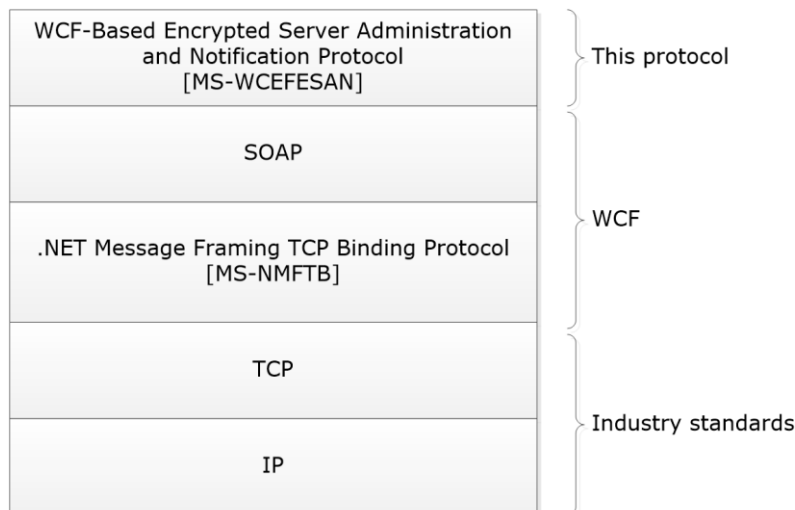


Figure 1: Protocol stack diagram

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)	[IANAPORT]

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	http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010	
xsd	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.2-1/2007] [SOAP1.2-2/2007]
s	http://www.w3.org/2003/05/soap-envelope	[SOAP1.2-1/2007]
a	http://www.w3.org/2005/08/addressing	[WSADDSoapBind1]

Prefix	Namespace URI	Reference
		.0]

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

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

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

JobExist: 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: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.

FeatureTile: 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.

2.2.4.4 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:sequence>
  <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="FullUserName" type="xs:string" />
</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>

FullUserName: 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>

```

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.

2.2.4.7 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 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 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.

2.2.4.9 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: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>
```

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>
```

```

    </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>

```

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>

```

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 2.2.5.1.1)	The SourceLibrary type contains the options governing which source libraries the client file backup provider will back up.
ManagedStatus (section 2.2.5.1.2)	The ManagedStatus type describes the computer managed status.
AbortReason (section 2.2.5.2.1)	The AbortReason type describes why a client backup job is aborted.
PCBackupClientFaultReason (section 2.2.5.2.2)	The PCBackupClientFaultReason type describes the type of fault that occurred in the client backup provider.
PCBackupProviderState (section 2.2.5.2.3)	The PCBackupProviderState type describes the state of the current backup set operation.
PCBackupStatusOperation (section 2.2.5.2.4)	The PCBackupStatusOperation type describes the operation status of the backup service.
PCBackupVolumePhase (section 2.2.5.2.5)	The PCBackupVolumePhase type describes the state of the current backup volume operation.
CleanupStatus (section 2.2.5.2.6)	The CleanupStatus type describes the status of the cleanup job.
PCClientDataStatus (section 2.2.5.2.7)	The PCClientDataStatus type describes the status of backups for each

Simple Type	Description
2.2.5.2.7)	client after repair.
ClientHealth (section 2.2.5.2.8)	The ClientHealth type describes the client backup health status.
ClientJobStatus (section 2.2.5.2.9)	The ClientJobStatus type describes the status of client backup job.
ConfigureBackupFaultReason (section 2.2.5.2.10)	The ConfigureBackupFaultReason type contains the reason for an error that occurred when configuring the computer backup.
DatabaseState (section 2.2.5.2.11)	The DatabaseState type describes the state of the computer backup database.
ExclusionReason (section 2.2.5.2.12)	The ExclusionReason type describes why a file is excluded.
FailureReason (section 2.2.5.2.13)	The FailureReason type describes the reason for a backup failure.
MountPhase (section 2.2.5.2.14)	The MountPhase type describes the different phases of mounting a backup.
PCBackupRepairState (section 2.2.5.2.15)	The PCBackupRepairState type describes the state of a backup repair operation.
RetentionState (section 2.2.5.2.16)	The RetentionState type describes backup jobs retention state.
StopReason (section 2.2.5.2.17)	The StopReason type describes why the computer backup service is stopped.
VolumeJobStatus (section 2.2.5.2.18)	The VolumeJobStatus type describes the configuration status of a volume.
VolumeLocation (section 2.2.5.2.19)	The VolumeLocation type indicates the location of a volume.
VolumeStatus (section 2.2.5.2.20)	The VolumeStatus type describes the configuration status of a volume.
PCBackupServerFaultReason (section 2.2.5.2.21)	The PCBackupServerFaultReason type indicates the type of fault that occurred in the client backup provider on the backup server.
TaskType (section 2.2.5.3.1)	The TaskType type represents type of tasks that the health provider processes.
HealthStatus (section 2.2.5.3.2)	The HealthStatus type represents the status of a health alert.
ErrorCatalogType (section 2.2.5.4.1)	The ErrorCatalogType describes the error catalog of the Machine provider call. It is used as error code.
MachineStatus (section 2.2.5.4.2)	The MachineStatus type describes the current status of a machine.
WSSServerGroupType (section 2.2.5.5.1)	The WSSServerGroupType type describes the type of group to which the user belongs.
UserCustomExceptionCode (section 2.2.5.5.2)	The UserCustomExceptionCode type describes the definition of the error code for the user operation in the user provider.
RemoteAccessType (section 2.2.5.5.3)	The RemoteAccessType type describes the type of remote access.
AccessLevelType (section 2.2.5.5.4)	The AccessLevelType type describes the type of access level.
UserStatus (section 2.2.5.5.5)	The UserStatus type describes the user status.

Simple Type	Description
CredentialType (section 2.2.5.6.1)	The CredentialType type describes the type of credentials that will be used for client authentication on the provider.
ConnectionSetting (section 2.2.5.6.2)	The ConnectionSetting type describes the connection setting to decide what type of sources are allowed to access the provider.
ImpersonationLevel (section 2.2.5.6.3)	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.
UpdateClassification (section 2.2.5.7.1)	The UpdateClassification type represents the different types of updates that an add-in can have.
OSEditions (section 2.2.5.7.2)	The OSEditions type describes information about the operating system that is used to limit which clients a file is installed to.
AddInError (section 2.2.5.7.3)	The AddInError type represents the error ID strings that can be reported back from the download provider.
FailureReason (section 2.2.5.8.1)	The FailureReason type represents the reason a failure occurred in the domain infrastructure service.
DomainStatus (section 2.2.5.8.2)	The DomainStatus type represents domain status from the point of view of the domain provider.
CertificateStatus (section 2.2.5.8.3)	The CertificateStatus type represents certificate status from the point of view of the domain provider.
DomainType (section 2.2.5.8.4)	The DomainType type describes the type of the domain supported.
DomainProviderEnvironment (section 2.2.5.8.5)	The DomainProviderEnvironment type describes the environment that the domain provider is running.
PasswordChangeStatus (section 2.2.5.9.2)	The PasswordChangeStatus 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.

Value	Description
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.
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).

Value	Description
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: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.

Value	Description
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.

Value	Description
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>
```

The following table describes the values for this type.

Value	Description
Unknown	Unknown failure reason.
NotAuthed	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.
RestoreVeriferFailed	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.
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.

Value	Description
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.
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.

Value	Description
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>
```

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.

Value	Description
Critical	The alert is a critical alert.
Report	The alert is a report containing additional information.

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.
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.

Value	Description
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>
```

```
</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>
```

The following table describes the values for this type.

Value	Description
User	Client credential type will be tied to the user.<8>
Machine	Client credential type will be tied to the machine.<9>
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.
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="CriticalUpdate" />  
    <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 <code>AddInManager.NewAddInVersionAvailable</code> .
CriticalUpdate	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: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.

Value	Description
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 Domain Infrastructure Service

2.2.5.8.1 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.

Value	Description
LocalProviderFailure	Local provider failure.
CertificateInstallFailure	An error occurred when installing the certificate.
CertificateFileBroken	Certificate file is broken.
CertificateNotTrusted	Certificate is not trusted.
CertificateBeforeValidPeriod	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.

2.2.5.8.2 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.

2.2.5.8.3 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.

2.2.5.8.4 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.

2.2.5.8.5 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.

2.2.5.9 AzureAD and HostedEmail Integration Service

AzureAD and HostedEmail integration service SHOULD be implemented.

2.2.5.9.1 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.

2.2.5.9.2 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:restriction>
</xs:simpleType>
```



```

    <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.

Value	Description
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
IUserConfigProvider.GetUserSettingAsync	An asynchronous operation to obtain user settings.
IUserConfigProvider.GetClientManagedSettingAsync	An asynchronous operation to determine whether a client is managed.
IUserConfigProvider.GetUserSettingCompleted	The callback for the IUserConfigProvider.GetUserSettingAsync operation contract.
IUserConfigProvider.GetClientManagedCompleted	The callback for the IUserConfigProvider.GetClientManagedSettingAsync 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.

```
<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>
```

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

```

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

```

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>

```

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.

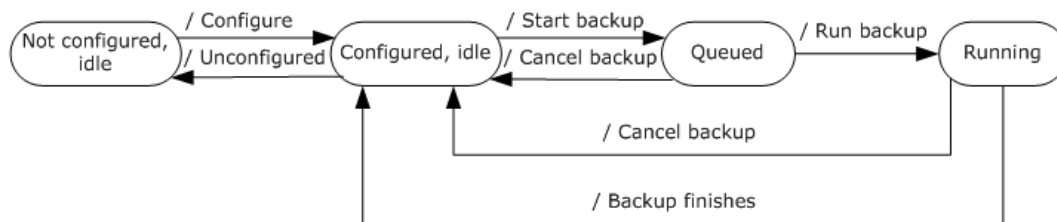


Figure 2: Backup status machine diagram

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
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.
IPCBackupServerRegister.KeepAlive	Keeps the channel alive.
IPCBackupServerRegister.VolumeCalculatorProgress	Notifies the server of changes in progress on the volume tree calculation.
IPCBackupServerRegister.GetClientPriority	Returns the priority of the client.
IPCBackupServerRegister.OnBatteryPower	Returns whether the client is running on battery power.
IPCBackupServerRegister.StartBackup	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.
IPCBackupServerRegister.CancelBackup	Cancels the backup job without regard for its state. Does nothing if it is already idle.
IPCBackupServerRegister.UpdateBackupConfiguration	Updates the backup configuration on the client whenever it changes.

OperationContract	Description
IPCBackupServerRegister.SendBackupProgress	Updates the progress percentage of a running backup operation.
IPCBackupServerRegister.GetFolderChildren	Gets folder children. Called after CalculateVolume finishes.
IPCBackupServerRegister.CalculateVolumeAsync	Calculates the folder tree for the volume.
IPCBackupServerRegister.CleanFolderSizeCalculation	Called by the server to clean the folder size calculation. Also called internally when the connection with the server breaks.
IPCBackupServerRegister.GetConnectedVolumes	Called by the server to get the list of volumes that are connected to the client. Some could be configured while others are not.
IPCBackupServerRegister.RescanVolumesAsync	Forces the client to send the volume configuration to the server.
IPCBackupServerProvider.Register	Registers the caller with the PC backup server provider.
IPCBackupServerProvider.GetClients	Operation to get list of all clients.
IPCBackupServerProvider.GetClient	Operation to get a specific client.
IPCBackupServerProvider.GetClientJobs	Returns the list of up to 100 client jobs from index.
IPCBackupServerProvider.GetVolumeJobs	Operation to get list of all volume jobs.
IPCBackupServerProvider.GetClientVolumes	Operation to get list of all client volumes.
IPCBackupServerProvider.SetClientJobDescription	Operation to set client job description.
IPCBackupServerProvider.SetClientJobRetentionState	Operation to set client job retention state.
IPCBackupServerProvider.SetClientVolumeStatus	Operation to set client volume status.
IPCBackupServerProvider.SetExcludedFolders	Operation to set excluded folders.
IPCBackupServerProvider.EnableBackups	Operation to enable backups on a client.
IPCBackupServerProvider.DisableBackups	Operation to disable backups on a client.
IPCBackupServerProvider.GetBackupConfiguration	Operation to get system wide backup configuration: backup windows, cleanup schedule etc.
IPCBackupServerProvider.GetDefaultBackupConfiguration	Operation to get default backup configuration: backup windows, cleanup schedule etc.
IPCBackupServerProvider.GetBackupOperationStatus	Operation to get backup operation status.
IPCBackupServerProvider.GetServiceStatus	Operation to get backup service status.
IPCBackupServerProvider.GetWaitingOperations	Operation to get waiting operations.
IPCBackupServerProvider.SetBackupConfiguration	Operation to set system wide backup configurations.
IPCBackupServerProvider.GetUsedBytes	Get total number of used bytes for all backups.

OperationContract	Description
IPCBackupServerProvider.StartCleanup	Operation to start cleanup operation.
IPCBackupServerProvider.CancelCleanup	Operation to cancel cleanup operation.
IPCBackupServerProvider.StartRepair	Operation to start repair operation.
IPCBackupServerProvider.CancelRepair	Operation to cancel repair operation.
IPCBackupServerProvider.GetLastRepairResult	Get last repair result.
IPCBackupServerProvider.StartConsistencyChecker	Operation to start consistency checker operation.
IPCBackupServerProvider.CancelConsistencyChecker	Operation to cancel consistency checker operation.
IPCBackupServerProvider.Remove	Operation to remove specific client.
IPCBackupServerProvider.CalculateVolumeAsync	Starts to calculate the specific volume.
IPCBackupServerProvider.GetFolderChildren	Get children of the specified folder.
IPCBackupServerProvider.GetConnectedVolumes	Get connected volumes of the specified client.
IPCBackupServerProvider.CleanFolderSizeCalculation	Cleanup folder size calculation.
IPCBackupServerProvider.StartBackup	Operation to start backup on a particular client.
IPCBackupServerProvider.CancelBackup	Operation to cancel backup on a particular client.
IPCBackupServerProvider.StartBackupService	Operation to start backup service.
IPCBackupServerProvider.StopBackupService	Operation to stop backup service.
IPCBackupServerProvider.NotifyBackupOperationStatusChange	Callback operation to notify caller of backup operation status change.
IPCBackupServerProvider.VolumeCalculatorProgress	Callback operation to notify caller of volume calculator progress change.
IPCBackupServerProvider.NotifyServiceStatusChange	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.

```
<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>

```

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.

```
<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.

```
<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/IPCBackupServerRegister/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>
```

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/IPCBackupServerRegister/GetClientPriority"
    message="tns:IPCBackupServerRegister_GetClientPriority_OutputCallbackMessage" />
  <wsdl:input
    wsam:Action="http://tempuri.org/IPCBackupServerRegister/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>
```

```
</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.

```
<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>
```

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.

```
<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>
```

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/IPCBBackupServerRegister/StartBackup"
  message="tns:IPCBBackupServerRegister_StartBackup_OutputCallbackMessage" />
  <wsdl:input wsam:Action="http://tempuri.org/IPCBBackupServerRegister/StartBackupResponse"
  message="tns:IPCBBackupServerRegister_StartBackup_InputCallbackMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBBackupServerRegister/StartBackupPCBackupClientFaultFault"
  name="PCBackupClientFaultFault"
  message="tns:IPCBBackupServerRegister_StartBackup_PCBackupClientFaultFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IPCBBackupServerRegister_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 **IPCBBackupServerRegister_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="IPCBBackupServerRegister_StartBackup_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackup" />
</wsdl:message>

```

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

```
http://tempuri.org/IPCBBackupServerRegister/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="IPCBBackupServerRegister_StartBackup_InputCallbackMessage">
  <wsdl:part name="parameters" element="tns:StartBackupResponse" />
</wsdl:message>

```

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

```
http://tempuri.org/IPCBBackupServerRegister/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>
```

3.2.5.6.2.2 StartBackupResponse

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

```
<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.

```
<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.

```
<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/IPCBakupServerRegister/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.PCBakup.BackupUtil.WcfContracts" type="q4:ClientConfig" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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/IPCBakupServerRegister/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>
```

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>
```

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>
```

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/IPBackupServerRegister/CalculateVolumeAsync"
    message="tns:IPCBackupServerRegister_CalculateVolumeAsync_OutputCallbackMessage" />
  <wsdl:input
    wsam:Action="http://tempuri.org/IPBackupServerRegister/CalculateVolumeAsyncResponse"
    message="tns:IPCBackupServerRegister_CalculateVolumeAsync_InputCallbackMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPBackupServerRegister/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/IPBackupServerRegister/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/IPBackupServerRegister/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>
```

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>
```

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.

```
<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/IPCBackupServerRegister/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/IPCBackupServerRegister/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.

```
<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>
```

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>
```

```
</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.

```
<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.

```
<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.

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

```
</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.

```
<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>
```

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/GetClientSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClient_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <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>
```

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>
```

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/GetClientJobsSecurityAccessDeniedExce
  ptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_GetClientJobs_SecurityAccessDeniedExceptionFault_FaultMe
  ssage" />
  <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>
```

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>
```

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>
```

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>

```

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:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesSecurityAccessDeniedE
xceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetClientVolumes_SecurityAccessDeniedExceptionFault_Fault
tMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetClientVolumesPCBackupServerFaultFa
ult" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetClientVolumes_PCBackupServerFaultFault_FaultMessage"
/>
</wsdl:operation>

```

Upon receiving the **IPCBackupServerProvider_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 **IPCBackupServerProvider_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 IPCBackupServerProvider_GetClientVolumes_InputMessage

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

```

<wsdl:message name="IPCBackupServerProvider_GetClientVolumes_InputMessage">
  <wsdl:part name="parameters" element="tns:GetClientVolumes" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/GetClientVolumes
```

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

3.2.5.20.1.2 IPCBackupServerProvider_GetClientVolumes_OutputMessage

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

```

<wsdl:message name="IPCBackupServerProvider_GetClientVolumes_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetClientVolumesResponse" />

```

```
</wsdl:message>
```

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

```
http://tempuri.org/IPCBackupServerProvider/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>
```

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>
```

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>
```

3.2.5.21.2.2 SetClientJobDescriptionResponse

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

```
<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>

```

3.2.5.22.2.2 SetClientJobRetentionStateResponse

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

```

<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/SetClientVolumeStatusPCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_SetClientVolumeStatus_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_SetClientVolumeStatus_SecurityAccessDeniedExceptionFault_FaultMessage" />

```

```
</wsdl:operation>
```

Upon receiving the **IPCBackupServerProvider_SetClientVolumeStatus_InputMessage** request message, the protocol server sets the client volume status. Upon successful completion of the action, the server MUST respond with **IPCBackupServerProvider_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 IPCBackupServerProvider_SetClientVolumeStatus_InputMessage

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

```
<wsdl:message name="IPCBackupServerProvider_SetClientVolumeStatus_InputMessage">
  <wsdl:part name="parameters" element="tns:SetClientVolumeStatus" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatus
```

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

3.2.5.23.1.2 IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage

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

```
<wsdl:message name="IPCBackupServerProvider_SetClientVolumeStatus_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetClientVolumeStatusResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPCBackupServerProvider/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>
```

```

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

```

3.2.5.23.2.2 SetClientVolumeStatusResponse

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

```

<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/IPCBKupServerProvider/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>
```

3.2.5.24.2.2 SetExcludedFoldersResponse

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

```
<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/IPCBKupServerProvider/EnableBackups"
    message="tns:IPCBackupServerProvider_EnableBackups_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBKupServerProvider/EnableBackupsResponse"
    message="tns:IPCBackupServerProvider_EnableBackups_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBKupServerProvider/EnableBackupsSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_EnableBackups_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBKupServerProvider/EnableBackupsPCBackupServerFaultFault" />
</wsdl:operation>
```

```
" name="PCBackupServerFaultFault"
message="tns:IPBackupServerProvider_EnableBackups_PCBackupServerFaultFault_FaultMessage" />
</wsdl:operation>
```

Upon receiving the **IPBackupServerProvider_EnableBackups_InputMessage** request message, the protocol server enables backups on a client. Upon successful completion of the action, the server MUST respond with **IPBackupServerProvider_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 IPBackupServerProvider_EnableBackups_InputMessage

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

```
<wsdl:message name="IPBackupServerProvider_EnableBackups_InputMessage">
  <wsdl:part name="parameters" element="tns:EnableBackups" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPBackupServerProvider/EnableBackups
```

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

3.2.5.25.1.2 IPBackupServerProvider_EnableBackups_OutputMessage

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

```
<wsdl:message name="IPBackupServerProvider_EnableBackups_OutputMessage">
  <wsdl:part name="parameters" element="tns:EnableBackupsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IPBackupServerProvider/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>
```

3.2.5.25.2.2 EnableBackupsResponse

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

```
<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>

```

3.2.5.26.2.2 DisableBackupsResponse

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

```

<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.

```
<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:q11="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q11:PCBackupConfiguration" />
  </xs:sequence>
</xs:complexType>
</xs:element>

```

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/GetDefaultBackupConfigurationSecurityAccessDeniedExceptionFault"
name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault>
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetDefaultBackupConfigurationPCBackupServerFaultFault"
name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetDefaultBackupConfiguration_PCBackupServerFaultFault_FaultMessage" />
</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.

```
<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>
```

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.

```

<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/GetServiceStatusSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_GetServiceStatus_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetServiceStatusPCBackupServerFaultFault"
    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.

```
<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:ql4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="ql4:ServiceStatusResponse" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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:operation>
```

```

    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsSecurityAccessDen
iedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetWaitingOperations_SecurityAccessDeniedExceptionFault_
FaultMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsPCBackupServerFau
ltFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider_GetWaitingOperations_PCBackupServerFaultFault_FaultMessa
ge" />
</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.

```

<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>

```

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/SetBackupConfigurationSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IPCBackupServerProvider_SetBackupConfiguration_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationPCBackupServerFaultFault"
    name="PCBackupServerFaultFault"
    message="tns:IPCBackupServerProvider_SetBackupConfiguration_PCBackupServerFaultFault_FaultMessage" />
</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>
```

3.2.5.32.2.2 SetBackupConfigurationResponse

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

```
<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:operation>
```

```

    <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/GetUsedBytesSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_GetUsedBytes_SecurityAccessDeniedExceptionFault_FaultMes
sage" />
</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.

```

<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>

```

3.2.5.34 IPCBackupServerProvider.StartCleanup

This operation starts the cleanup operation.

```

<wsdl:operation name="StartCleanup">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanup"
  message="tns:IPCBackupServerProvider_StartCleanup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupResponse"
  message="tns:IPCBackupServerProvider_StartCleanup_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupPCBackupServerFaultFault"
  name="PCBackupServerFaultFault"
  message="tns:IPCBackupServerProvider_StartCleanup_PCBackupServerFaultFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServerProvider/StartCleanupSecurityAccessDeniedExcep
  tionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServerProvider_StartCleanup_SecurityAccessDeniedExceptionFault_FaultMes
  sage" />
</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/IPCBackupServerProvider/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.

```
<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.

```
<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>
```



```
</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.

```
<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.

```
<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>
```

```
</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.

```
<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.

```
<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.

```
<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.

```
<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.

```
<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:q17="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts" type="q17:RepairResult" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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>
```

3.2.5.39.2.2 StartConsistencyCheckerResponse

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

```
<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.

```
<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.

```
<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>
```

3.2.5.41.2.2 RemoveResponse

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

```
<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:operation>
```

```

    <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>

```

3.2.5.42.2 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>

```

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/IPCBBackupServerProvider/GetFolderChildren"
message="tns:IPCBBackupServerProvider_GetFolderChildren_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IPCBBackupServerProvider/GetFolderChildrenResponse"
message="tns:IPCBBackupServerProvider_GetFolderChildren_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBBackupServerProvider/GetFolderChildrenSecurityAccessDenied
ExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBBackupServerProvider_GetFolderChildren_SecurityAccessDeniedExceptionFault_Fau
ltMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IPCBBackupServerProvider/GetFolderChildrenPCBackupServerFaultF
ault" name="PCBackupServerFaultFault"
message="tns:IPCBBackupServerProvider_GetFolderChildren_PCBackupServerFaultFault_FaultMessage"
/>
</wsdl:operation>

```

Upon receiving the **IPCBBackupServerProvider_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 **IPCBBackupServerProvider_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>
```

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>
```

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>
```

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>
```

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>
```

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>
```

3.2.5.46.2.2 StartBackupResponse

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

```
<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/IPCBackupServerProvider/CancelBackup"
  message="tns:IPCBackupServerProvider_CancelBackup_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackupResponse"
  message="tns:IPCBackupServerProvider_CancelBackup_OutputMessage" />
</wsdl:operation>
```

```

    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/CancelBackupSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider_CancelBackup_SecurityAccessDeniedExceptionFault_FaultMes
sage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IPCBackupServerProvider/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>

```

3.2.5.47.2 CancelBackupResponse

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

```

<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="PCBackupServerFault"
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/IPCBackupServiceProvider/StartBackupService`

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

3.2.5.48.1.2 IPCBackupServiceProvider_StartBackupService_OutputMessage

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

```
<wsdl:message name="IPCBackupServiceProvider_StartBackupService_OutputMessage">
  <wsdl:part name="parameters" element="tns:StartBackupServiceResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

`http://tempuri.org/IPCBackupServiceProvider/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.

```
<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.

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

3.2.5.49 IPCBackupServiceProvider.StopBackupService

This operation stops the backup service.

```
<wsdl:operation name="StopBackupService">
  <wsdl:input wsam:Action="http://tempuri.org/IPCBackupServiceProvider/StopBackupService"
  message="tns:IPCBackupServiceProvider_StopBackupService_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IPCBackupServiceProvider/StopBackupServiceResponse"
  message="tns:IPCBackupServiceProvider_StopBackupService_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IPCBackupServiceProvider/StopBackupServiceSecurityAccessDenied
  ExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IPCBackupServiceProvider_StopBackupService_SecurityAccessDeniedExceptionFault_FaultMessage" />
```

```
<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>

```

3.2.5.49.2.2 StopBackupServiceResponse

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

```

<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>

```

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>

```

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

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>
```

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
IAAlertProviderCallback.RaiseAlertCompleted	Indicates the raise alert has completed.
IAAlertProviderCallback.ClearAlertCompleted	Indicates the clear alert has completed.
IAAlertProviderCallback.SuppressAlertCompleted	Indicates the suppress alert has completed.
IAAlertProviderCallback.RepairAlertCompleted	Indicates the repair alert has completed.
IAAlertProviderCallback.EvaluateAlertsCompleted	Indicates the health evaluation cycle has completed.
IAAlertProviderCallback.RaisedAlerts	Provides the alerts raised on a client computer.
IAAlertProviderCallback.ClearedAlerts	Provides the alerts cleared on a client computer.
IAAlertSynchCallback.AlertChanged	Indicates a callback for alert changed event.
IAAlertManagementProviderService.GetAllNetworkAlerts	Gets the list of AlertInfo objects representing the alerts currently active in the entire network.
IAAlertManagementProviderService.ClearAlertOneWay	Clears an alert that is currently active in the network,

OperationContract	Description
	either on the primary server or on a client computer. This operation does not wait until the alert is cleared before returning.
IAAlertManagementProviderService.ClearAlert	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.
IAAlertManagementProviderService.SuppressAlertOneWay	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.
IAAlertManagementProviderService.SuppressAlert	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.
IAAlertManagementProviderService.RaiseAlertOneWay	Raises an alert for a health definition defined for a feature. This operation does not wait until the alert is raised before returning.
IAAlertManagementProviderService.RaiseAlert	Raises an alert for a health definition defined for a feature. This operation waits until the alert is raised before returning.
IAAlertManagementProviderService.IsAuthorized	Determines whether the connected user has network alert access. This is a provider service running on the primary server.
IAAlertSynchProviderService.RegisterClientAgent	Registers a client computer for callback with IAAlertSynchProviderService provider service running on the primary server.
IAAlertSynchProviderService.SynchronizeAlerts	Synchronizes the list of AlertInfo objects representing alerts raised, cleared, updated, or evaluated on a particular machine in the network to the server.
IAAlertSynchProviderService.ClearCallbackCommandQueue	Clears all the pending command queues for the machine. Used when a device cannot have an Agent running.
IAAlertSynchProviderService.GetPlugInInformation	Get information about all the installed plugins.
IAAlertSynchProviderService.DownloadDefinition	Get stream of definition file of a feature plug-in.
IAAlertSynchProviderService.DownloadConfiguration	Get stream of definition configuration file of a feature plug-in.

3.3.5.1 IAAlertProviderCallback.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 IAlertProviderCallback_RaiseAlertCompleted_OutputCallbackMessage

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

```
<wsdl:message  
  name="IAlertManagementProviderService_RaiseAlertCompleted_OutputCallbackMessage">  
  <wsdl:part name="parameters" element="tns:RaiseAlertCompleted" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/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.NetworkHea  
lth.AlertFramework" type="q5:AlertInfo" />  
      <xs:element minOccurs="0" name="errorMessage" nillable="true" type="xs:string" />  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

For details on **AlertInfo**, see section 2.2.4.3.2.

3.3.5.2 IAlertProviderCallback.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/IAlertManagementProviderService/ClearAlertCompleted"  
    message="tns:IAlertManagementProviderService_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>
```

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/IAlertManagementProviderService/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>
```

3.3.5.4 IAlertProviderCallback.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/IAlertManagementProviderService/RepairAlertCompleted"
message="tns:IAlertManagementProviderService_RepairAlertCompleted_OutputCallbackMessage" />
</wsdl:operation>
```

3.3.5.4.1 Messages

3.3.5.4.1.1 IAlertProviderCallback_RepairAlertCompleted_OutputCallbackMessage

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

```
<wsdl:message name="IAlertProviderCallback_RepairAlertCompleted_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RepairAlertCompleted" />
</wsdl:message>
```

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

```
http://tempuri.org/IAlertManagementProviderService/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="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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:element minOccurs="0" name="ignoreSchedule" nillable="true" type="xs:boolean" />
      <xs:element minOccurs="0" name="errMessage" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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.NetworkHealth.AlertFramework" type="q6:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="task"
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHealth.AlertFramework" type="q7:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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/IAAlertManagementProviderService/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.NetworkHea
lth.AlertFramework" type="q8:ArrayOfAlertInfo" />
      <xs:element minOccurs="0" name="task"
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.AlertFramework" type="q9:TaskType" />
      <xs:element minOccurs="0" name="machineId" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

3.3.5.8 IAAlertSynchCallback.AlertChanged

This operation is a callback for the alert changed event.

```
<wsdl:operation name="AlertChanged">
  <wsdl:output wsam:Action="http://tempuri.org/IAAlertSynchProviderService/AlertChanged"
message="tns:IAAlertSynchProviderService_AlertChanged_OutputCallbackMessage" />
</wsdl:operation>
```

3.3.5.8.1 Messages

3.3.5.8.1.1 IAAlertSynchCallback_AlertChanged_OutputCallbackMessage

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

```
<wsdl:message name="IAAlertSynchCallback_AlertChanged_OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:AlertChanged" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

http://tempuri.org/IAAlertSynchProviderCallback/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>

```

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/IAlertManagementProviderService/GetAllNetworkAlerts"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsResponse"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_SecurityAccessDeniedExceptionFault_FaultMessage" />
  <wsdl:fault
wsam:Action="http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlertsStringFault" name="StringFault"
message="tns:IAlertManagementProviderService_GetAllNetworkAlerts_StringFault_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IAlertManagementProviderService_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 **IAlertManagementProviderService_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 IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage

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

```

<wsdl:message name="IAlertManagementProviderService_GetAllNetworkAlerts_InputMessage">
  <wsdl:part name="parameters" element="tns:GetAllNetworkAlerts" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/GetAllNetworkAlerts
```

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

3.3.5.9.1.2 IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage

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

```
<wsdl:message name="IAlertManagementProviderService_GetAllNetworkAlerts_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetAllNetworkAlertsResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/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.

```
<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>
```

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/IAlertManagementProviderService/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>
```

3.3.5.11 IAlertManagementProviderService.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/IAlertManagementProviderService/ClearAlert"
  message="tns:IAlertManagementProviderService_ClearAlert_InputMessage" />
  <wsdl:output
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertResponse"
  message="tns:IAlertManagementProviderService_ClearAlert_OutputMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertStringFault"
  name="StringFault"
  message="tns:IAlertManagementProviderService_ClearAlert_StringFault_FaultMessage" />
  <wsdl:fault
  wsam:Action="http://tempuri.org/IAlertManagementProviderService/ClearAlertSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"
  message="tns:IAlertManagementProviderService_ClearAlert_SecurityAccessDeniedExceptionFault_Fa
ultMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService_ClearAlert_InputMessage** request message, the protocol server starts to clear the specific alert. Upon successful completion of the action, the server MUST respond with **IAlertManagementProviderService_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 IAlertManagementProviderService_ClearAlert_InputMessage

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

```
<wsdl:message name="IAlertManagementProviderService_ClearAlert_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearAlert" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/ClearAlert
```

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

3.3.5.11.1.2 IAlertManagementProviderService_ClearAlert_OutputMessage

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

```
<wsdl:message name="IAlertManagementProviderService_ClearAlert_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearAlertResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertManagementProviderService/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>
```

3.3.5.11.2.2 ClearAlertResponse

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

```
<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>
```

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/IAAlertManagementProviderService/SuppressAlert"
message="tns:IAAlertManagementProviderService_SuppressAlert_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertResponse"
message="tns:IAAlertManagementProviderService_SuppressAlert_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertStringFault"
name="StringFault"
message="tns:IAAlertManagementProviderService_SuppressAlert_StringFault_FaultMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/IAAlertManagementProviderService/SuppressAlertSecurityAccessDe
niedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IAAlertManagementProviderService_SuppressAlert_SecurityAccessDeniedExceptionFault
_FaultMessage" />
</wsdl:operation>

```

Upon receiving the **IAAlertManagementProviderService_SuppressAlert_InputMessage** request message, the protocol server starts to suppress the specific alert. Upon successful completion of the action, the server MUST respond with **IAAlertManagementProviderService_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 IAAlertManagementProviderService_SuppressAlert_InputMessage

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

```

<wsdl:message name="IAAlertManagementProviderService_SuppressAlert_InputMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlert" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/SuppressAlert
```

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

3.3.5.13.1.2 IAAlertManagementProviderService_SuppressAlert_OutputMessage

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

```

<wsdl:message name="IAAlertManagementProviderService_SuppressAlert_OutputMessage">
  <wsdl:part name="parameters" element="tns:SuppressAlertResponse" />
</wsdl:message>

```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/SuppressAlertResponse
```

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>
```

3.3.5.13.2 SuppressAlertResponse

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

```
<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/IAlertManagementProviderService/RaiseAlertOneWay"
message="tns:IAlertManagementProviderService_RaiseAlertOneWay_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAlertManagementProviderService_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.NetworkHealth.AlertFramework" type="q2:AlertInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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/RaiseAlertSecurityAccessDeniedExceptionFault"
    name="SecurityAccessDeniedExceptionFault"
    message="tns:IAlertManagementProviderService_RaiseAlert_SecurityAccessDeniedExceptionFault_FaultMessage" />
</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>
```

For details on **AlertInfo**, see section 2.2.4.3.2.

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>
```

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>
```

```
</wsdl:operation>
```

Upon receiving the **IAAlertManagementProviderService_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 **IAAlertManagementProviderService_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 IAAlertManagementProviderService_IsAuthorized_InputMessage

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

```
<wsdl:message name="IAAlertManagementProviderService_IsAuthorized_InputMessage">  
  <wsdl:part name="parameters" element="tns:IsAuthorized" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertManagementProviderService/IsAuthorized
```

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

3.3.5.16.1.2 IAAlertManagementProviderService_IsAuthorized_OutputMessage

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

```
<wsdl:message name="IAAlertManagementProviderService_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.

```
<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>
```

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/IAlertSynchProviderService/RegisterClientAgent"
    message="tns:IAlertSynchProviderService_RegisterClientAgent_InputMessage" />
  <wsdl:output
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/RegisterClientAgentResponse"
    message="tns:IAlertSynchProviderService_RegisterClientAgent_OutputMessage" />
  <wsdl:fault
    wsam:Action="http://tempuri.org/IAlertSynchProviderService/RegisterClientAgentArgumentNullExceptionFault"
    name="ArgumentNullExceptionFault"
    message="tns:IAlertSynchProviderService_RegisterClientAgent_ArgumentNullExceptionFault_FaultMessage" />
</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>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/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>
```

3.3.5.17.2.2 RegisterClientAgentResponse

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

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

3.3.5.18 IAAlertSynchProviderService.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/IAAlertSynchProviderService/SynchronizeAlerts"
    message="tns:IAAlertSynchProviderService_SynchronizeAlerts_InputMessage" />
</wsdl:operation>
```

Upon receiving the **IAAlertSynchProviderService_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 IAAlertSynchProviderService_SynchronizeAlerts_InputMessage

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

```
<wsdl:message name="IAAlertSynchProviderService_SynchronizeAlerts_InputMessage">
  <wsdl:part name="parameters" element="tns:SynchronizeAlerts" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/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>
```

3.3.5.19 IAAlertSynchProviderService.ClearCallbackCommandQueue

This operation clears all pending command queues for the machine.

```
<wsdl:operation name="ClearCallbackCommandQueue">
  <wsdl:input>
    wsam:Action="http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueue"
    message="tns:IAAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage" />
  <wsdl:output>
    wsam:Action="http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueueResponse"
    message="tns:IAAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAAlertSynchProviderService_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 **IAAlertSynchProviderService_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 IAAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage

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

```
<wsdl:message name="IAAlertSynchProviderService_ClearCallbackCommandQueue_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueue" />
</wsdl:message>
```

```
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/ClearCallbackCommandQueue
```

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

3.3.5.19.1.2 IAAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage

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

```
<wsdl:message name="IAAlertSynchProviderService_ClearCallbackCommandQueue_OutputMessage">  
  <wsdl:part name="parameters" element="tns:ClearCallbackCommandQueueResponse" />  
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAAlertSynchProviderService/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>
```

3.3.5.19.2.2 ClearCallbackCommandQueueResponse

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

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

3.3.5.20 IAAlertSynchProviderService.GetPlugInInformation

This operation gets information for all installed plugins.

```
<wsdl:operation name="GetPlugInInformation">
```

```

    <wsdl:input
wsam:Action="http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformation"
message="tns:IAAlertSynchProviderService_GetPlugInInformation_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/IAAlertSynchProviderService/GetPlugInInformationResponse"
message="tns:IAAlertSynchProviderService_GetPlugInInformation_OutputMessage" />
</wsdl:operation>

```

Upon receiving the **IAAlertSynchProviderService_GetPlugInInformation_InputMessage** request message, the protocol server starts to get the plugin information. Upon successful completion of the action, the server MUST respond with **IAAlertSynchProviderService_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 IAAlertSynchProviderService_GetPlugInInformation_InputMessage

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

```

<wsdl:message name="IAAlertSynchProviderService_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.

```

<xs:element name="GetPlugInInformation">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>

```



```
</xs:element>
```

3.3.5.20.2 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>
```

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/IAAlertSynchProviderService/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>
```

3.3.5.21.2.2 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>
```

3.3.5.22 IAAlertSynchProviderService.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/IAAlertSynchProviderService/DownloadConfiguration"
    message="tns:IAAlertSynchProviderService_DownloadConfiguration_InputMessage" />
  <wsdl:output>
    wsam:Action="http://tempuri.org/IAAlertSynchProviderService/DownloadConfigurationResponse"
    message="tns:IAAlertSynchProviderService_DownloadConfiguration_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IAAlertSynchProviderService_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 **IAAlertSynchProviderService_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/IAlertSynchProviderService/DownloadConfiguration
```

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

3.3.5.22.1.2 IAlertSynchProviderService_DownloadConfiguration_OutputMessage

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

```
<wsdl:message name="IAlertSynchProviderService_DownloadConfiguration_OutputMessage">
  <wsdl:part name="parameters" element="tns:DownloadConfigurationResponse" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IAlertSynchProviderService/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>
```

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>
```

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
IMachineIdentityProviderCallback.ReturnNewCertResponse	Callback for the New Certificate Response.
IMachineIdentityProviderCallback.ReturnRenewCert	Callback for the Renew New Certificate.
IMachineIdentityProviderCallback.ReturnSid	Callback for the machine SID. This happens only when a new machine is added to the Colorado system and

OperationContract	Description
	the machine connects with the server. SID is the ID for this machine.
IMachineIdentityProviderCallback.ReturnRevokeCert	Callback for the Revoke Certificate.
IMachineIdentityProviderCallback.ReturnRemoveMachine	Callback to remove a machine. This happens after the connection between the server and client terminates.
IMachineIdentityProviderCallback.ReturnGetMachineStatus	Get the machine status.
IMachineIdentityProviderCallback.ReturnMakeUserRemoteDesktopMapping	Callback for the MakeUserRemoteDesktopMapping operation.
IMachineIdentityProvider.RemoveMachine	Remove machine from the managed network. This is called from the server side.
IMachineIdentityProvider.RenewCert	Renew the caller's certificate.
IMachineIdentityProvider.RevokeCert	Revoke the caller's certificate.
IMachineIdentityProvider.GenerateCertResponse	This function is called by Enroll WebService. UserName/Password required to authenticate the user.
IMachineIdentityProvider.GenerateSid	Generate the SID for the machine. UserName/Password required to authenticate the user.
IMachineIdentityProvider.GetMachineStatus	Returns the status of machine named by the callback.
IMachineIdentityProvider.MakeUserRemoteDesktopMapping	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>
```

```
</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>
```

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>
```

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: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>
```

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>
```

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>
```

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.Id
        entity" type="q6:GetMachineStatusType" />
      <xs:element minOccurs="0" name="returnCode" nillable="true"
        xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
        entity" type="q7:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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.Id
entity" type="q8:ReturnClass" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

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>

```

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>
```

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.

```
<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>
```

```
</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>
```

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>
```

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>

```

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>

```


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
IUserIdentityProvider.ChangePassword	Change the user password.
IUserLogonProvider.LogonUser	Log on a user (who provides the correct password) and display the requested UserInfo.
IUserChangePasswordProvider.ChangePassword	Change the user password.
IUserInfoProvider.ReturnGroups	Callback to OM after GetGroups.
IUserInfoProvider.ReturnWSSServerGroups	Callback to OM after GetWSSServerGroups.
IUserInfoProvider.ReturnIsPartOfServerUsers	Callback to OM after IsPartOfServerUsers.
IUserInfoProvider.GetGroups	Get groups for the current user.
IUserInfoProvider.GetWSSServerGroups	Get WSSServer Groups for the current user.
IUserInfoProvider.IsPartOfServerUsers	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:operation>
```

```

    <wsdl:fault
wsam:Action="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/
3/2010/IUserLogonProvider/LogonUserUserFaultFault" name="UserFaultFault"
message="tns:IUserLogonProvider_LogonUser_UserFaultFault_FaultMessage" />
    <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>
```

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>
```

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>
```

3.5.5.2.2.2 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>

```

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>
```

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>
```

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/IUserI
nfoProviderCallback/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>
```

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/IUserI
nfoProvider/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.

```

<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/IUserI
nfoProvider/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.

```
<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/IUserInfoProvider/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.

```
<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
IProviderRegistry.Disconnect	Signal the ProviderRegistryService that the connection is terminating.
IProviderRegistry.Query	Return a list of ProviderInfo data for a

OperationContract	Description
	given contract.
IProviderRegistry.QueryAll	Get all registered providers.
IProviderRegistry.RequestProviderInfoUpdate	Request an update for specific providers.
IProviderRegistry.GetVersion	Get the provider version.
IProviderRegistry.InformOfProviderUpdate	Send an updated ProviderInfo object to the connected client.
INotificationProviderServiceAdminOnly.Connect	Connect to the notification provider.
INotificationProviderServiceAdminOnly.RaiseNotifications	Send persistent notifications to be raised on the provider.
INotificationProviderServiceAdminOnly.ClearNotifications	Send persistent notifications to be cleared on the provider.
INotificationProviderServiceAdminOnly.RequestNotificationChange	Request a change to the specified persistent notification.
INotificationProviderServiceAdminOnly.FireEvent	Send a one-time notification to be raised on the provider.
INotificationProviderServiceAdminOnly.AddCategoryFilters	Indicate that the caller is interested in additional categories of notifications.
INotificationProviderServiceAdminOnly.RemoveCategoryFilters	Indicate that the caller is no longer interested in the specified categories.
INotificationProviderServiceAdminOnly.Disconnect	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/IPProviderRegistryConnection/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.

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

3.6.5.2 IPProviderRegistry.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/IPProviderRegistry/Query"
  message="tns:IPProviderRegistry_Query_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPProviderRegistry/QueryResponse"
  message="tns:IPProviderRegistry_Query_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IPProviderRegistry_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 **IPProviderRegistry_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 IPProviderRegistry_Query_InputMessage

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

```
<wsdl:message name="IPProviderRegistry_Query_InputMessage">
  <wsdl:part name="parameters" element="tns:Query" />
</wsdl:message>
```

This message MUST be sent with the following SOAP action.

http://tempuri.org/IPProviderRegistry/Query

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

3.6.5.2.1.2 IPProviderRegistry_Query_OutputMessage

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

```
<wsdl:message name="IPProviderRegistry_Query_OutputMessage">
```

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

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

```
http://tempuri.org/IPProviderRegistry/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>
```

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>
```

3.6.5.3 IPProviderRegistry.QueryAll

This operation returns all registered providers.

```
<wsdl:operation msc:isInitiating="true" msc:isTerminating="false" name="QueryAll">
  <wsdl:input wsam:Action="http://tempuri.org/IPProviderRegistry/QueryAll"
message="tns:IPProviderRegistry_QueryAll_InputMessage" />
  <wsdl:output wsam:Action="http://tempuri.org/IPProviderRegistry/QueryAllResponse"
message="tns:IPProviderRegistry_QueryAll_OutputMessage" />
</wsdl:operation>
```

Upon receiving the **IPProviderRegistry_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 **IPProviderRegistry_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.

```
<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>
```

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>

```

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>
```

This message MUST be sent with the following SOAP action.

```
http://tempuri.org/IProviderRegistry/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.

```
<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>
```

3.6.5.6 IProviderRegistry.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/IProviderRegistry/InformOfProviderUpdate"
message="tns:IProviderRegistry_InformOfProviderUpdate_OutputCallbackMessage" />
</wsdl:operation>
```

Upon receiving the **IProviderRegistry_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 IProviderRegistry_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>
```

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>
```

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>
```

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>
```

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/INotif
icationProviderService/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>
```

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>
```

This message MUST be sent with the following SOAP action.

```
http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifications/3/2010/INotif
icationProviderService/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>
```

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

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>
```


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/INotif
icationProviderService/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>
```

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/INotif
icationProviderService/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.

```
<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
IAddInMetadata.GetPackagePath	Gets the server path where the add-in package will be copied.
IAddInMetadata.GetAddInIds	Gets the installed and uninstalled add-ins.
IAddInMetadata.GetAddInInformation	Gets details about the add-in.
IAddInMetadata.RegisterForChanges	Registers for changes to the add-in infrastructure.
IAddInMetadata.OperationInProgress	Checks whether there are any current installs or uninstalls that would block another operation.
IAddInMetadata.ChangeOccured	Callback triggered when the metadata for an add-in has changed.
IAddInMetadataInstall.CheckCredentials	Checks whether administrator credentials are valid by validating that the user is an administrator.
IAddInMetadataInstall.InstallAddIn	Installs the given add-in.
IAddInMetadataInstall.DownloadInstallAddIn	Downloads and installs the given add-in.
IAddInMetadataInstall.UninstallAddIn	Uninstalls the add-in with the given ID. There is no effect if there is no add-in with that ID.
IAddInMetadataInstall.CancelOperation	Cancels the current operation.
IAddInMetadataInstall.StartUploadAddinFile	Starts the upload of the add-in with the given ID.
IAddInMetadataInstall.UploadAddinFile	Uploads a chunk of a file.
IAddInMetadataInstall.EndUploadAddinFile	Ends the upload of a file.

OperationContract	Description
IAddInMetadataInstall.ProgressChanged	Callback triggered when the progress for the given installation has changed, or the installation is complete.
IAddInMetadataInstall.ErrorOccured	Callback triggered when an error has occurred during installation.
IAddInMetadataInstall.RebootRequired	Callback triggered if the installation requires a reboot.
IAddInMetadataInstall.RestartDashboardRequired	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: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>
```

```
</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>
```

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>
```

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.

```
<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>
```

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>
```

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>
```

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>
```

3.7.5.4.2.2 RegisterForChangesResponse

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

```
<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.

```
<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>

```

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.

```

<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>
```

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.

```
<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.

```
<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>
```

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>
```

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>

```

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.

```
<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>
```

3.7.5.12.2.2 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>
```

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>

```

3.7.5.13.2 UploadAddinFileResponse

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

```

<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>
```

3.7.5.14.2.2 EndUploadAddinFileResponse

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

```
<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>
```

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>
```

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.

```
<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.

```
<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
INetworkingService.UpdateClientAddress	Called by the client to notify the server of the client's current IP address.
INetworkingService.RemoveClient	Called when the client is permanently removed in the dashboard. Requires administrator access and can only be called locally.
INetworkingService.Ping	Used to implement IsServerOnline API.
INetworkingService.GetVPNServerSetting	Used to retrieve VPN server settings.
INetworkingService.GetVirtualNetworkSettings	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>
```

3.8.5.1.2.2 UpdateClientAddressResponse

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

```
<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:fault
  wsam:Action="http://tempuri.org/INetworkingService/RemoveClientArgumentExceptionFault" />
</wsdl:operation>
```

```
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>
```

3.8.5.2.2.2 RemoveClientResponse

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

```
<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.

```
<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.

```
<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.

```
<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.RemoteAcce
        ss" type="q1:VPNSetting" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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.

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

```

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
IDomainMaintenanceManager.SetCredentials	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 has changed) and need to be updated before domain maintenance can continue successfully.
IDomainMaintenanceManager.ValidateCredentials	Validate the current user credentials.
IDomainMaintenanceManager.UpdateDnsRecords	Update DNS records for the domain.
IDomainMaintenanceManager.QueryAddressFromDNS	Determine the public IP address (IPv4 or IPv6) corresponding to the currently configured domain name using public DNS infrastructure.
IDomainMaintenanceManager.QueryAddressFromProvider	Query the active maintenance provider for the server's public IP address.
IDomainMaintenanceManager.TestConnection	Verify whether the connection to the current provider's backend service can be established.

OperationContract	Description
	This method is used for diagnostics only, as no guarantees of network/service conditions can be made immediately after this method returns.
IDomainMaintenanceManager.GetDomainState	Query the active maintenance provider for current domain state.
IDomainMaintenanceManager.GetCertificateState	Query the active maintenance provider for current certificate state.
IDomainMaintenanceManager.GetDomainNameConfiguration	Return the currently active domain name configuration.
IDomainMaintenanceManager.GetDynamicDNSInfo	Return data about dynamic DNS updates (the time of the most recent successful update, for example).
IDomainMaintenanceManager.GetSettings	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>
```

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>
```

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:operation>
```

```
<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.

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

```
</xs:element>
```

3.9.5.2.2 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>
```

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.RemoteAccess.Domains" type="q2:ArrayOfDnsRecord" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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>
```

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:operation>
```

```

    <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.

```

<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>
```

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:fault
    wsam:Action="http://tempuri.org/IDomainMaintenanceManager/QueryAddressFromProviderDomainManagerFaultFault"
    name="DomainManagerFaultFault"
    message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_DomainManagerFaultFault_FaultMessage" />
</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.

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

3.9.5.5.2.2 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>
```

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.

```
<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>
```

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>
```

```
</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.

```
<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.RemoteAccess.Domains" type="q5:DomainState" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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/GetCertificateStateDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetCertificateState_DomainManagerFaultFault_FaultMessage" />
</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.

```
<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>
```

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.

```
<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.RemoteAcces
ss.Domains" type="q7:DomainNameConfiguration" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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>
```

```
</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.

```
<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>
```

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.

```

<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>
```

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.

~~3.10.1 Abstract Data Model~~

3.10.2 Timers

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
IPasswordSyncClientProvider.Disconnect	Disconnects from the provider service.
IPasswordSyncClientProvider.RaiseOperationInvokeEvent	Raises an operation invoke event.

OperationContract	Description
IO365ClientProvider.GetSharePointAddress<19>	Returns the address of the SharePoint web portal associated with the Microsoft Office 365 subscription.
IO365ClientProvider.IsActivated	Checks whether Office 365 integration is activated.
IPasswordSyncClientProvider.GetPasswordChangeStatus	Gets password change status.
IPasswordSyncClientProvider.MarkPasswordChangeFixed	Marks password change status as fixed.
IO365ClientProvider.GetEmailAddress	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.

```
<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>
```

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:operation>
```

```

    <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.

```

<xs:element name="GetSharePointAddress">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>

```

```
</xs:element>
```

3.10.5.3.2 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>
```

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="0365ConfigureExceptionFault"
message="tns:IO365ClientProvider_IsActivated_0365ConfigureExceptionFault_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.

```

<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>

```

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>
```

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>

```

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/MarkUserPasswordChangeFixedRespon
    se" message="tns:IPasswordSyncClientProvider_MarkPasswordChangeFixed_OutputMessage" />
  <wsdl:fault>
    wsam:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedPwdSyn
    cConfigureExceptionFault" name="PwdSyncConfigureExceptionFault"
    message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed_PwdSyncConfigureExceptio
    nFault_FaultMessage" />

```

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>

```

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>
```

3.10.5.6.2.2 MarkUserPasswordChangeFixedResponse

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

```
<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="O365ConfigureExceptionFault"
  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>
```

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>
```

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

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
IClientRegistrationService.RegisterClient	Registers a client callback channel to the server.
IClientNotificationCallback.NotificationReceived	Indicates a notification event has been received from server.
IClientNotificationProvider.NotifyClientByName	Sends a notification to a client with the specified machine name.
IClientNotificationProvider.NotifyClientById	Sends a notification to a client with the specified SID.
IClientNotificationProvider.NotifyAllClients	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>
```

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>
```

3.11.5.2.2.2 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>
```

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>

```

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>
```

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>
```

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>
```

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>
```

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>
```


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 ~~Windows Server operating system~~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.FileBacku

```

```

p.UserConfigProvider/Microsoft.WindowsServerSolutions.DataProtection.FileBackup.IUserConfigPr
vider" />
    <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.DataProtec
tion.FileBackup" minOccurs="0" name="exception" nillable="true"
type="q1:ClientFileBackupException" />
                <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtec
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.DataProtec
tion.FileBackup" minOccurs="0" name="exception" nillable="true"
type="q3:ClientFileBackupException" />
                <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtec
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:q1="http://schemas.datacontract.org/2004/07/System"
base="q1: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: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="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/RegisterBackupClientInvalidOperationE
xceptionFault" name="InvalidOperationExceptionFault"
message="tns:IPCBackupServerRegister_RegisterBackupClient_InvalidOperationExceptionFault_Faul
tMessage" />
    </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/IPCBackupServerRegister/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/IPCBackupServerRegister/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/IPCBackupServerRegister/UpdateBackupConfiguration"
style="document" />
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SendBackupProgress">
      <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/SendBackupProgress" style="document"
/>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetFolderChildren">
      <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerRegister/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/IPCBackupServerRegister/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/IPCBakupServerRegister/CleanFolderSizeCalculation"
style="document" />
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetConnectedVolumes">
      <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerRegister/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/IPCBakupServerRegister/RescanVolumesAsync" style="document"
/>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name="PCBackupServerRegisterImpl">
    <wsdl:port name="CustomBinding_IPCBakupServerRegister"
binding="tns:CustomBinding_IPCBakupServerRegister">
      <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup_register/
Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBakupSer
verRegister" />
      <wsa10:EndpointReference>

<wsa10:Address>net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.wssg_pc_backup regi
ster/Microsoft.WindowsServerSolutions.DataProtection.PCBackup.BackupUtil.WcfContracts.IPCBakup
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: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: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>
<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: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:restriction>
  </xs:simpleType>

```

```

    <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: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:sequence>

```

```

    <xs:element xmlns:g2="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: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: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="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: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="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.DataProtec
tion.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.DataProtec
tion.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.DataProtec
tion.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>

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    </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.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q14:PCBackupServerFault" />
    </wsdl:message>
    <wsdl:message
name="IPCBackupServerProvider SetClientJobDescription SecurityAccessDeniedExceptionFault Faul
tMessage">
    <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">

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    <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 FaultMessag
e">
    <wsdl:part
xmlns:q16="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q16:PCBackupServerFault" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider SetClientJobRetentionState SecurityAccessDeniedExceptionFault F
aultMessage">
    <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.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q18:PCBackupServerFault" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider SetClientVolumeStatus SecurityAccessDeniedExceptionFault FaultM
essage">
    <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 FaultMess
age">
    <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.DataProte
ction.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>

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<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.DataProtection.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.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q26:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider GetBackupConfiguration SecurityAccessDeniedExceptionFault FaultMessage">
  <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 FaultMessage">
  <wsdl:part
xmlns:q28="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.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>

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<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.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q36:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider_SetBackupConfiguration_SecurityAccessDeniedExceptionFault_FaultMessage">
  <wsdl:part
xmlns:q37="http://schemas.datacontract.org/2004/07/System.ServiceModel.Security"
name="detail" element="q37:SecurityAccessDeniedException" />

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</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.DataProtection.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.DataProtection.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.DataProtection.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.DataProtection.PCBackup.BackupUtil.WcfContracts" name="detail" element="q44:PCBackupServerFault" />
</wsdl:message>
<wsdl:message
name="IPCBackupServerProvider StartRepair SecurityAccessDeniedExceptionFault FaultMessage">

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    <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 Faul
tMessage">
    <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"
>
  >

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    <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">

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    <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.DataProte
ction.PCBackup.BackupUtil.WcfContracts" name="detail" element="q60:PCBackupServerFault" />
  </wsdl:message>
  <wsdl:message
name="IPCBackupServerProvider GetConnectedVolumes SecurityAccessDeniedExceptionFault FaultMes
sage">
    <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.DataProte
ction.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.DataProte
ction.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 FaultMes
sage">

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    <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_FaultMessa
ge" />
    </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/GetClientsSecurityAccessDeniedExcepti
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" />

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        <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"
/>
        </>

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        <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/SetClientVolumeStatusPCBackupServerFa
ultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider SetClientVolumeStatus PCBackupServerFaultFault FaultMess
age" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetClientVolumeStatusSecurityAccessDe
niedExceptionFault" 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/SetExcludedFoldersSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"

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message="tns:IPCBackupServerProvider SetExcludedFolders SecurityAccessDeniedExceptionFault FaultMessage" />
  <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetExcludedFoldersPCBackupServerFault
Fault" 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/EnableBackupsSecurityAccessDeniedExce
ptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider EnableBackups_SecurityAccessDeniedExceptionFault FaultMe
ssage" />
    </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/DisableBackupsPCBackupServerFaultFaul
t" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider DisableBackups_PCBackupServerFaultFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/DisableBackupsSecurityAccessDeniedExc
eptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider DisableBackups_SecurityAccessDeniedExceptionFault FaultM
essage" />
      </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" />

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        <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/GetServiceStatusPCBackupServerFaultFa
ult" 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/GetWaitingOperationsPCBackupServerFau
ltFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider GetWaitingOperations PCBackupServerFaultFault FaultMessa
ge" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetWaitingOperationsSecurityAccessDen
iedExceptionFault" 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/SetBackupConfigurationPCBackupServerF
aultFault" name="PCBackupServerFaultFault"

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message="tns:IPCBackupServerProvider SetBackupConfiguration PCBackupServerFaultFault FaultMes
sage" />
  <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/SetBackupConfigurationSecurityAccessD
eniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider SetBackupConfiguration SecurityAccessDeniedExceptionFaul
t 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/GetUsedBytesSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider GetUsedBytes SecurityAccessDeniedExceptionFault FaultMes
sage" />
    </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/StartCleanupSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider StartCleanup SecurityAccessDeniedExceptionFault FaultMes
sage" />
    </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/CancelCleanupSecurityAccessDeniedExce
ptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider CancelCleanup SecurityAccessDeniedExceptionFault FaultMe
ssage" />
    </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/StartRepairSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"

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message="tns:IPCBackupServerProvider StartRepair SecurityAccessDeniedExceptionFault FaultMess
age" />
</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/CancelRepairSecurityAccessDeniedExcep
tionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider CancelRepair SecurityAccessDeniedExceptionFault FaultMes
sage" />
</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/GetLastRepairResultPCBackupServerFaul
tFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider GetLastRepairResult PCBackupServerFaultFault FaultMessag
e" />
  <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetLastRepairResultSecurityAccessDeni
edExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider GetLastRepairResult SecurityAccessDeniedExceptionFault F
aultMessage" />
</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"

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message="tns:IPCBackupServerProvider CancelConsistencyChecker SecurityAccessDeniedExceptionFault 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/RemoveSecurityAccessDeniedExceptionFault" 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/CalculateVolumeAsyncPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider CalculateVolumeAsync PCBackupServerFaultFault FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/CalculateVolumeAsyncSecurityAccessDeniedExceptionFault" 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/GetFolderChildrenPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider GetFolderChildren PCBackupServerFaultFault FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetFolderChildrenSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider GetFolderChildren SecurityAccessDeniedExceptionFault FaultMessage" />
  </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/GetConnectedVolumesPCBackupServerFaultFault" name="PCBackupServerFaultFault"
message="tns:IPCBackupServerProvider GetConnectedVolumes PCBackupServerFaultFault FaultMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPCBackupServerProvider/GetConnectedVolumesSecurityAccessDeniedExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IPCBackupServerProvider GetConnectedVolumes SecurityAccessDeniedExceptionFault FaultMessage" />
  </wsdl:operation>

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    </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/StopBackupServiceSecurityAccessDenie
dExceptionFault" name="SecurityAccessDeniedExceptionFault"

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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:fault name="SecurityAccessDeniedExceptionFault">
      <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetClients">
    <soap12:operation soapAction="http://tempuri.org/IPCBackupServerProvider/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/IPCBackupServerProvider/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:operation>

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        </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">

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        <soap12:operation
soapAction="http://tempuri.org/IPCBackupServerProvider/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/IPCBackupServerProvider/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/IPCBackupServerProvider/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/IPCBackupServerProvider/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/IPCBackupServerProvider/EnableBackups"
style="document" />

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    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
  </wsdl:output>
  <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/IPBackupServerProvider/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/IPBackupServerProvider/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/IPCBackupServerProvider/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/IPCBackupServerProvider/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/IPCBakupServerProvider/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/IPCBakupServerProvider/CancelCleanup"
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="StartRepair">
    <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/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/IPCBakupServerProvider/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/IPCBakupServerProvider/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/IPCBakupServerProvider/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:fault name="SecurityAccessDeniedExceptionFault">
        <soap12:fault use="literal" name="SecurityAccessDeniedExceptionFault" namespace="" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CancelConsistencyChecker">
      <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerProvider/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/IPCBakupServerProvider/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/IPCBakupServerProvider/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/IPCBakupServerProvider/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 name="GetConnectedVolumes">
    <soap12:operation
soapAction="http://tempuri.org/IPCBakupServerProvider/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/IPCBakupServerProvider/CleanFolderSizeCalculation"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="StartBackup">
    <soap12:operation soapAction="http://tempuri.org/IPCBakupServerProvider/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/IPCBackupServerProvider/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/IPCBackupServerProvider/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.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="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:ql="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Data Protec

```

```

tion.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.Data Protec
tion.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.Data Protec
tion.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.Data Protec
tion.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.Data Protec

```

```

tion.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.Data Protec
tion.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: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.Data Protec
tion.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.Data Protec
tion.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>

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```

</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: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.DataProte
ction.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.DataProte
ction.PCBackup.BackupUtil.WcfContracts" minOccurs="0"
name="GetDefaultBackupConfigurationResult" nillable="true" type="q13:PCBackupConfiguration"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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```

        </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>

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```

    <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:sequence>

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    </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>

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```

</xs:element>
<xs:element name="GetConnectedVolumesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.DataProtection.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: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>

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

```

```

    <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:sequence>
  </xs:complexType>

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        <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: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>

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    </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: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: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: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: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>
```

6.2.2.7 <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:misc="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="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>
          </wsp:Policy>
        </sp:TransportBinding>
        <wsaw:UsingAddressing />
      </wsp>All>
    </wsp:ExactlyOne>
  </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/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
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: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:message>
  <wsdl:message name="IAlertManagementProviderService_RaiseAlertOneWay_InputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertOneWay" />
  </wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_RaiseAlert_InputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlert" />
  </wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_RaiseAlert_OutputMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertResponse" />
  </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: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:message>
  <wsdl:message name="IAlertManagementProviderService_IsAuthorized_InputMessage">
    <wsdl:part name="parameters" element="tns:IsAuthorized" />
  </wsdl:message>
  <wsdl:message name="IAlertManagementProviderService_IsAuthorized_OutputMessage">
    <wsdl:part name="parameters" element="tns:IsAuthorizedResponse" />
  </wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_RaiseAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RaiseAlertCompleted" />
  </wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_ClearAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:ClearAlertCompleted" />
  </wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_SuppressAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:SuppressAlertCompleted" />
  </wsdl:message>
  <wsdl:message
name="IAlertManagementProviderService_RepairAlertCompleted_OutputCallbackMessage">
    <wsdl:part name="parameters" element="tns:RepairAlertCompleted" />
  </wsdl:message>

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```

</wsdl:message>
<wsdl:message
name="IAlertManagementProviderService EvaluateAlertsCompleted OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:EvaluateAlertsCompleted" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService RaisedAlerts OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:RaisedAlerts" />
</wsdl:message>
<wsdl:message name="IAlertManagementProviderService ClearedAlerts OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:ClearedAlerts" />
</wsdl:message>
<wsdl:message name="IAlertSynchProviderService RegisterClientAgent InputMessage">
  <wsdl:part name="parameters" element="tns:RegisterClientAgent" />
</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:portType>

```

```

    </wsdl:operation>
    <wsdl:operation name="ClearAlertOneWay">
      <wsdl:input
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertOneWay"
message="tns:IAAlertManagementProviderService_ClearAlertOneWay_InputMessage" />
    </wsdl:operation>
    <wsdl:operation name="ClearAlert">
      <wsdl:input wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlert"
message="tns:IAAlertManagementProviderService_ClearAlert_InputMessage" />
      <wsdl:output
wsaw:Action="http://tempuri.org/IAAlertManagementProviderService/ClearAlertResponse"
message="tns:IAAlertManagementProviderService_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" />

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```

        <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>
  <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.NetworkHea
  lth.AlertFramework.Service" />
  <xs:import schemaLocation=""
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
  lth.AlertFramework" />
  <xs:import schemaLocation=""
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
  lth.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: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:element
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework" minOccurs="0" name="task" type="q11:TaskType" />
    </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: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.NetworkHe
alth.AlertFramework.Commands" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Net
workHealth.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.NetworkHe
alth.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.NetworkHea
lth.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.NetworkHe
alth.AlertFramework.Service" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Net
workHealth.AlertFramework.Service" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation=""
namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHe
alth.AlertFramework" />
  <xs:complexType name="AlertListChunk">
    <xs:sequence>
      <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.NetworkHea
lth.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.NetworkHe
alth.AlertFramework" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Net
workHealth.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.NetworkHe
alth.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: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:schema>
```

```

        <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.NetworkHea
lth.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.NetworkHe
alth.Engine" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Net
workHealth.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: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: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>

```

6.3.11 <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: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>

```

6.3.12 <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:complexType>
  <xs:attribute ref="ser:FactoryType" />
</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: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.Id
entity" minOccurs="0" name="status" nillable="true" type="q5:GetMachineStatusType" />
      <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Devices.Id
entity" 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="InvalildCert" />
      <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: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: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: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/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.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: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.WindowsServerSolution.S.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: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: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/Notifications/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:ql="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Users"
          minOccurs="0" name="LogonUserResult" nillable="true" type="ql:UserInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```
</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>
        <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/Notificati
        ons/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:definitions>

```

6.5.2.3 http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolution.s.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:sequence>
  </xs:complexType>

```

```

        <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:q1="http://schemas.datacontract.org/2004/07/System"
base="q1: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/3/2
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="UserInfoProvider"
targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsp:Policy wsu:Id="CustomBinding_IUserInfoProvider_policy">
    <wsp:ExactlyOne>
      <wsp>All>
        <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 wsdl12

```

<?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/Notificati
ons/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/Notificati
ons/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/Notificati
ons/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/Notificati
ons/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/Notificati
ons/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/Notificati
ons/3/2010/IUserInfoProvider/ReturnWSSServerGroups"
message="tns:IUserInfoProvider ReturnWSSServerGroups OutputCallbackMessage" />
    </wsdl:operation>
  </wsdl:portType>

```

```

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.s.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: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: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:restriction>
  </xs:simpleType>

```

```

        <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: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>
            </wsp:Policy>
          </sp:TransportBinding>
        </wsp>All>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </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>
<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/IPProviderRegistry/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/IPProviderRegistry/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/IPProviderRegistry/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/IPProviderRegistry/InformOfProviderUpdate" style="document" />
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="CustomBinding IPProviderRegistration" type="tns:IPProviderRegistration">
    <wsp:PolicyReference URI="#CustomBinding IPProviderRegistration policy" />
    <soap12:binding transport="http://schemas.microsoft.com/soap/tcp" />
    <wsdl:operation name="Disconnect">
        <soap12:operation
soapAction="http://tempuri.org/IPProviderRegistryConnection/Disconnect" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="Register">
        <soap12:operation soapAction="http://tempuri.org/IPProviderRegistration/Register"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>
    <wsdl:operation name="InformOfProviderUpdate">
        <soap12:operation
soapAction="http://tempuri.org/IPProviderRegistration/InformOfProviderUpdate" style="document"
/>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:service name="ProviderRegistryService">
    <wsdl:port name="CustomBinding IPProviderRegistry"
binding="tns:CustomBinding IPProviderRegistry">
        <soap12:address
location="net.tcp://serverName:6602//Microsoft.WindowsServerSolutions.Common.ProviderFramework
k.IPProviderRegistry" />

```

```

<wsa10:EndpointReference>
<wsa10:Address>net.tcp://serverName:6602//Microsoft.WindowsServerSolutions.Common.ProviderFramework.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.ProviderFramework.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.ProviderFramework" />
  <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.ProviderFramework" 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.ProviderFramework" 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.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.Common.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"

```



```

        </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: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>
    <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: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/Notifica
tions/3/2010" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xsd:schema
targetNamespace="http://www.microsoft.com/WindowsServerSolutions/ProviderFramework/Notifica
tions/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/Notifica
tions/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: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: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>
<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.AddinIn
frastructure" />
        <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>
<wsdl:message name="IAddInMetadataInstall UploadAddinFile AddInErrorFault FaultMessage">
  <wsdl:part
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.AddinIn
rastructure" 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
rastructure" 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: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>

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```

    <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:binding>
<wsdl:service name="AddInMetadataProvider">
    <wsdl:port name="CustomBinding IAddInMetadata"
binding="tns:CustomBinding IAddInMetadata">
        <soap12:address
location="net.tcp://serverName:6602/Microsoft.WindowsServerSolutions.AddinInfrastructure.Ad
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.Ad
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: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 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.AddIn
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>
            </xs:annotation>
          </xs:enumeration>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>

```

```

        <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:complexType>

```

```

<xs:element xmlns:ql="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="list" nillable="true" type="ql: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>
          </wsp:Policy>
        </sp:TransportBinding>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </wsdl:definitions>

```



```

        <sp:Layout>
            <wsp:Policy>
                <sp:Strict />
            </wsp:Policy>
        </sp:Layout>
    </wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
</wsp: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>
</wsp: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.RemoteAccess" 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.Networking" minOccurs="0" name="GetVirtualNetworkSettingsResult" nillable="true"
type="q2:VirtualNetworkSettings" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </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.Networking" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.Networking" 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:sequence>
  </xs:complexType>
  <xs:element minOccurs="0" name="ServerPrepared" type="xs:boolean" />
</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: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:restriction>
  </xs:simpleType>

```

```

    </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>
    <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: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:wsw="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.RemoteAccess.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.RemoteAccess.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>

```

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<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 FaultMessa
ge">
  <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.RemoteAc
cess.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.RemoteAc
cess.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">

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```

    <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/SetCredentialsDomainManagerFaultFault"
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/ValidateCredentialsDomainManagerFaultFault"
name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_ValidateCredentials_DomainManagerFaultFault_FaultMessage"
/>
    </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/UpdateDnsRecordsArgumentExceptionFault"
name="ArgumentExceptionFault"

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```

message="tns:IDomainMaintenanceManager_UpdateDnsRecords_ArgumentExceptionFault_FaultMessage" />
  <wsdl:fault
wsaw:Action="http://tempuri.org/IDomainMaintenanceManager/UpdateDnsRecordsDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_UpdateDnsRecords_DomainManagerFaultFault_FaultMessage" />
  </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/QueryAddressFromDNSDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_QueryAddressFromDNS_DomainManagerFaultFault_FaultMessage" />
    </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/QueryAddressFromProviderDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_QueryAddressFromProvider_DomainManagerFaultFault_FaultMessage" />
      </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/TestConnectionDomainManagerFaultFault" 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/GetDomainStateDomainManagerFaultFault" 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/GetCertificateStateDomainManagerFaultFault" name="DomainManagerFaultFault"
message="tns:IDomainMaintenanceManager_GetCertificateState_DomainManagerFaultFault_FaultMessage" />
            </wsdl:operation>
          </wsdl:operation>
        </wsdl:operation>
      </wsdl:operation>
    </wsdl:operation>
  </wsdl:operation>

```

```

    </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/GetDomainNameConfigurationResponse"
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:operation>
  </wsdl:binding>
</wsdl:service>

```

```

        <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: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: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.RemoteAc
cess.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.RemoteAc
cess.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.RemoteAc
cess.Domains" minOccurs="0" name="GetDynamicDNSInfoResult" nillable="true"
type="q8:DynamicDNSInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

</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.RemoteAc
cess.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.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: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:restriction>
  </xs:simpleType>

```

```

    <xs:enumeration value="CertificateBebeforeValidPeriod" />
    <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: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:sequence>
</xs:complexType>

```

```

<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: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: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/">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/">9</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Sna">
  <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/">10</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DecNet">
  <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/">11</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="DataLink">
  <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/">12</EnumerationValue>
    </xs:appinfo>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Lat">
  <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/">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>
  <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: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: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>

```

6.9.9 <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:tms="http://tempuri.org/"
xmlns:msec="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>
      </wsp:ExactlyOne>
    </wsp:Policy>
  </wsp:Policy>
```

```

        <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>
<wsp:Policy>
  <wsp:ExactlyOne>
    <wsp:All>
      <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.Password
dSync" />
      </xsd:schema>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>
<wsp:Policy>
  <wsp:ExactlyOne>
    <wsp:All>
      <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>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>

```

```

<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/MarkUserPasswordChangeFixedResponse"
message="tns:IPasswordSyncClientProvider_MarkUserPasswordChangeFixed OutputMessage" />
    <wsdl:fault
wsaw:Action="http://tempuri.org/IPasswordSyncClientProvider/MarkUserPasswordChangeFixedPwdSyncConfigurationExceptionFault" name="PwdSyncConfigurationExceptionFault"

```



```

message="tns:IPasswordSyncClientProvider MarkUserPasswordChangeFixed PwdSyncConfigurationEx
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: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: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 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: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="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">

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    <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>

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</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 OnO365UserUpdated OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnO365UserUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider OnO365InformationUpdated OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnO365InformationUpdated" />
</wsdl:message>
<wsdl:message name="IO365Provider OnO365DomainUpdated OutputCallbackMessage">
  <wsdl:part name="parameters" element="tns:OnO365DomainUpdated" />
</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">

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    <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">

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    <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" />

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    </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/IsLocalUserMapped0365ConfigureExceptionFault"
name="O365ConfigureExceptionFault"
message="tns:IO365Provider_IsLocalUserMapped_0365ConfigureExceptionFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalUserMappedSecurityAccessDeniedExceptio
nFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider_IsLocalUserMapped_SecurityAccessDeniedExceptionFault_FaultMessag
e" />
    </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/IsLocalGroupMapped0365ConfigureExceptionFault
" name="O365ConfigureExceptionFault"
message="tns:IO365Provider_IsLocalGroupMapped_0365ConfigureExceptionFault_FaultMessage" />
      <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/IsLocalGroupMappedSecurityAccessDeniedExcepti
onFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider_IsLocalGroupMapped_SecurityAccessDeniedExceptionFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="GetMappedOnlineUserFromAD">

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        <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/GetMappedOnlineUserFromAD0365ConfigureExcepti
onFault" name="O365ConfigureExceptionFault"
message="tns:IO365Provider GetMappedOnlineUserFromAD O365ConfigureExceptionFault FaultMessa
ge" />
        <wsdl:fault
wsaw:Action="http://tempuri.org/IO365Provider/GetMappedOnlineUserFromADSecurityAccessDenied
ExceptionFault" name="SecurityAccessDeniedExceptionFault"
message="tns:IO365Provider GetMappedOnlineUserFromAD SecurityAccessDeniedExceptionFault Fau
ltMessage" />
    </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>

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<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>

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    <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="OnO365UserUpdated">
    <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/OnO365UserUpdated"
message="tns:IO365Provider_OnO365UserUpdated_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnO365InformationUpdated">
    <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/OnO365InformationUpdated"
message="tns:IO365Provider_OnO365InformationUpdated_OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnO365DomainUpdated">
    <wsdl:output wsaw:Action="http://tempuri.org/IO365Provider/OnO365DomainUpdated"
message="tns:IO365Provider_OnO365DomainUpdated_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>

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    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointSiteUpdated">
    <wsdl:output wsaw:Action="http://tempuri.org/I0365Provider/OnSharePointSiteUpdated"
message="tns:I0365Provider OnSharePointSiteUpdated OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryAdded">
    <wsdl:output wsaw:Action="http://tempuri.org/I0365Provider/OnSharePointLibraryAdded"
message="tns:I0365Provider OnSharePointLibraryAdded OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryRemoved">
    <wsdl:output
wsaw:Action="http://tempuri.org/I0365Provider/OnSharePointLibraryRemoved"
message="tns:I0365Provider OnSharePointLibraryRemoved OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnSharePointLibraryUpdated">
    <wsdl:output
wsaw:Action="http://tempuri.org/I0365Provider/OnSharePointLibraryUpdated"
message="tns:I0365Provider OnSharePointLibraryUpdated OutputCallbackMessage" />
    </wsdl:operation>
    <wsdl:operation msc:isInitiating="true" msc:isTerminating="false"
name="OnIntegrationStatusUpdated">
    <wsdl:output
wsaw:Action="http://tempuri.org/I0365Provider/OnIntegrationStatusUpdated"
message="tns:I0365Provider 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 I0365Provider" type="tns:I0365Provider">
    <wsp:PolicyReference URI="#CustomBinding I0365Provider 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/I0365Provider/Activate"
style="document" />
    <wsdl:input>
    <soap12:body use="literal" />
    </wsdl:input>

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    </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" />

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        </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:operation>

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    <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: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">

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        <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>

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    </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/I0365Provider/QueryAllExchangeDistrGroups" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="AddExchangeDistrGroup">
    <soap12:operation soapAction="http://tempuri.org/I0365Provider/AddExchangeDistrGroup"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateExchangeDistrGroup">
    <soap12:operation
soapAction="http://tempuri.org/I0365Provider/UpdateExchangeDistrGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateExchangeDistrGroupMembers">
    <soap12:operation
soapAction="http://tempuri.org/I0365Provider/UpdateExchangeDistrGroupMembers"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="DeleteExchangeDistrGroup">
    <soap12:operation
soapAction="http://tempuri.org/I0365Provider/DeleteExchangeDistrGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateUserExchangeDistrGroups">
    <soap12:operation
soapAction="http://tempuri.org/I0365Provider/UpdateUserExchangeDistrGroups"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="EnsureUser">
    <soap12:operation soapAction="http://tempuri.org/I0365Provider/EnsureUser"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="GetSiteCollectionProperties">
    <soap12:operation
soapAction="http://tempuri.org/I0365Provider/GetSiteCollectionProperties" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="GetSiteProperties">
    <soap12:operation soapAction="http://tempuri.org/I0365Provider/GetSiteProperties"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
</wsdl:operation>
<wsdl:operation name="UpdateSiteProperties">
    <soap12:operation soapAction="http://tempuri.org/I0365Provider/UpdateSiteProperties"
style="document" />
    <wsdl:input>

```



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        <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>

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```

        <soap12:body use="literal" />
    </wsdl:output>
</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.O365Integration.O365Ma
nagementProvider/Microsoft.WindowsServerSolutions.Common.ProviderFramework.IProvider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.O365Integration.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.O365Integration.O365Ma
nagementProvider/Microsoft.WindowsServerSolutions.O365Integration.IO365Provider" />
        <wsa10:EndpointReference>

<wsa10:Address>net.tcp://localhost:65532/Microsoft.WindowsServerSolutions.O365Integration.O
365ManagementProvider/Microsoft.WindowsServerSolutions.O365Integration.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: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: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:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.0365Inte
gration" minOccurs="0" name="licenses" 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 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: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="Query0365Information">
  <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:element minOccurs="0" name="id" 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: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:element minOccurs="0" name="id" 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="QueryO365UserWithEmails">
    <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="UpdateO365UserWithEmails">
    <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>

```



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        <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>

```

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        <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: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" />

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        <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: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>

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```

    </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>

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    </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="ReadOnlyCollectionOf0{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.0365Int
egration" />
                </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="O365UserLicense"
Namespace="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Int
egration" />
      </GenericType>
    </xs:appinfo>
  </xs:annotation>
  <xs:sequence>
    <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.WindowsServerSolutions.O365Inte
gration" name="list" nillable="true" type="q5:ArrayOfO365UserLicense" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ReadOnlyCollectionOfO365UserLicenseg8jlx19J" nillable="true"
type="tns:ReadOnlyCollectionOfO365UserLicenseg8jlx19J" />
  <xs:complexType name="ReadOnlyCollectionOfO365Domaing8jlx19J">
    <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.0365Inte
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.0365Int
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: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: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: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:element name="ArrayOfO365Service" nillable="true" type="tns:ArrayOfO365Service" />
  <xs:complexType name="O365Service">
    <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:O365ServiceTypes" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="O365Service" nillable="true" type="tns:O365Service" />
  <xs:simpleType name="O365ServiceTypes">
    <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:enumeration>
    </xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="O365ServiceTypes" nillable="true" type="tns:O365ServiceTypes" />
<xs:complexType name="ArrayOfO365Subscription">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365Subscription"
nillable="true" type="tns:O365Subscription" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfO365Subscription" nillable="true"
type="tns:ArrayOfO365Subscription" />
<xs:complexType name="O365Subscription">
    <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="O365Subscription" nillable="true" type="tns:O365Subscription" />
<xs:complexType name="O365User">
    <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:ReadOnlyCollectionOfO365UserLicenseg8jlx19J" />
        <xs:element minOccurs="0" name="UserPrincipalName" nillable="true" type="xs:string"
/>
    </xs:sequence>
</xs:complexType>
<xs:element name="O365User" nillable="true" type="tns:O365User" />
<xs:complexType name="ArrayOfO365UserLicense">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365UserLicense"
nillable="true" type="tns:O365UserLicense" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfO365UserLicense" nillable="true"
type="tns:ArrayOfO365UserLicense" />
<xs:complexType name="O365UserLicense">
    <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="O365Services" nillable="true"
type="q6:ReadOnlyCollectionOfO365Serviceg8jlx19J" />
        <xs:element minOccurs="0" name="SkuId" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="O365UserLicense" nillable="true" type="tns:O365UserLicense" />
<xs:complexType name="O365ConfigureException">
    <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="O365ConfigureException" nillable="true"
type="tns:O365ConfigureException" />
<xs:complexType name="O365UserMap">
    <xs:sequence>
        <xs:element minOccurs="0" name="Error" nillable="true"
type="tns:O365ConfigureException" />
        <xs:element minOccurs="0" name="LocalUserName" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>

```



```

    <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:sequence>

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        <xs:element minOccurs="0" name="CustomDomainStatus" type="tns:O365DomainStatus" />
        <xs:element minOccurs="0" name="PrimaryDomainName" nillable="true" type="xs:string"
    />
    </xs:sequence>
</xs:complexType>
<xs:element name="O365DomainConfiguration" nillable="true"
type="tns:O365DomainConfiguration" />
<xs:complexType name="ArrayOfO365Domain">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365Domain" nillable="true"
type="tns:O365Domain" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfO365Domain" nillable="true" type="tns:ArrayOfO365Domain" />
<xs:complexType name="O365Domain">
    <xs:sequence>
        <xs:element minOccurs="0" name="CapabilityType" type="tns:O365DomainType" />
        <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="O365Domain" nillable="true" type="tns:O365Domain" />
<xs:simpleType name="O365DomainType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Email" />
        <xs:enumeration value="Sharepoint" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="O365DomainType" nillable="true" type="tns:O365DomainType" />
<xs:simpleType name="O365DomainStatus">
    <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="O365DomainStatus" nillable="true" type="tns:O365DomainStatus" />
<xs:complexType name="ArrayOfO365User">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="O365User" nillable="true"
type="tns:O365User" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfO365User" nillable="true" type="tns:ArrayOfO365User" />
<xs:complexType name="O365InvalidEmailAddressException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="O365InvalidEmailAddressException" nillable="true"
type="tns:O365InvalidEmailAddressException" />
<xs:complexType name="O365DuplicateEmailAliasException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="O365DuplicateEmailAliasException" nillable="true"
type="tns:O365DuplicateEmailAliasException" />
<xs:complexType name="AADNoSubscriptionException">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:O365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
<xs:element name="AADNoSubscriptionException" nillable="true"
type="tns:AADNoSubscriptionException" />
<xs:complexType name="O365LicenseConfigurationException">

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    <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>

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</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">

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        <xs:extension base="tns:O365ConfigureException" />
    </xs:complexContent>
</xs:complexType>
    <xs:element name="ExIdentityNotFoundExcepion" nillable="true"
type="tns:ExIdentityNotFoundExcepion" />
    <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="ExEmailAddressInvalidDomainException">
        <xs:complexContent mixed="false">
            <xs:extension base="tns:O365ConfigureException" />
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="ExEmailAddressInvalidDomainException" nillable="true"
type="tns:ExEmailAddressInvalidDomainException" />
    <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">

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    <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>
            </xs:annotation>
          </xs:enumeration>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>

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        <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
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    </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" />

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        <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:element
xmlns:q15="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="SubSitesRelativeUri" nillable="true"
type="q15:ReadOnlyCollectionOfanyURI" />
                <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:element
xmlns:q16="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
minOccurs="0" name="RoleAssignments" nillable="true"
type="q16:ReadOnlyCollectionOfSharePointRoleAssignmenttg8jlx19J" />
    </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:element
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: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: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: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>
        </msb:BinaryEncoding>
      </wsp>All>
    </wsp:ExactlyOne>
  </wsp:Policy>

```



```

        </sp:Layout>
    </wsp:Policy>
</sp:TransportBinding>
<wsaw:UsingAddressing />
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
</wsp: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>
</wsp: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: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="[\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>

```

6.11.4 <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" />
        <GenericParameter Name="boolean" Namespace="http://www.w3.org/2001/XMLSchema" />
      </GenericType>
    </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>
```

67 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs.

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 8 operating system~~
- Windows Server 2012 operating system
- Windows Server 2012 R2 operating system
- Windows Server 2016 operating system

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product 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 ~~2016 only~~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 ~~2016 only~~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 2.2.5.9: AzureAD and HostedEmail Integration are not available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012.

<11> Section 2.2.5.9.2: InvalidPassword is ~~supported~~not available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 with [MSKB-2975719]SP1, Windows 8, and Windows Server ~~2016~~.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 ~~not~~ available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012 only.

<14> Section 3.4.5.8: IMachineIdentityProvider.RemoveMachine is ~~not~~ available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~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 ~~only~~ in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012.

<18> Section 3.5.5.2: IUserChangePasswordProvider.ChangePassword is ~~not~~ available ~~only~~ in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012.

<19> Section 3.10.5: In Windows Server 2012 R2 and ~~Windows Server 2016~~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 ~~Windows Server 2016~~later, IO365ClientProvider.GetSharePointAddress functionality is replaced by IPasswordSyncClientProvider.

<22> Section 3.10.5.4: IO365ClientProvider.IsActivated is ~~not~~ available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012 only.

<23> Section 3.10.5.7: IO365ClientProvider.GetEmailAddress is ~~not~~ available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~2012 only.

<24> Section 3.11.1: Client Notification Service Contract is ~~not~~ available in Windows 7 SP1, Windows Server ~~2012~~2008 R2 SP1, Windows 8, and Windows Server ~~2016~~only2012.

<25> Section 5.1.2: In Windows, the certificate can be retrieved using Microsoft.WindowsServerSolutions.Devices.Identity.MachineIdentityManager.GetLocalMachineCert method in the Windows Server operating system Solutions SDK. See [MSDN-GetLocMachCert].

78 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as ~~New~~, Major, Minor, ~~Editorial~~, or ~~No change~~**None**.

~~The revision class **New** means that a new document is being released.~~

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 ~~or functionality~~.
- ~~The removal of a~~ document ~~from the documentation set~~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 **Editorial** means that the formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.~~

~~The revision class **No change****None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content ~~of the document~~ is identical to the last released version.~~

~~Major and minor changes can be described further using the following change types:~~

- ~~New content added.~~
- ~~Content updated.~~
- ~~Content removed.~~
- ~~New product behavior note added.~~
- ~~Product behavior note updated.~~
- ~~Product behavior note removed.~~
- ~~New protocol syntax added.~~
- ~~Protocol syntax updated.~~
- ~~Protocol syntax removed.~~
- ~~New content added due to protocol revision.~~
- ~~Content updated due to protocol revision.~~
- ~~Content removed due to protocol revision.~~
- ~~New protocol syntax added due to protocol revision.~~
- ~~Protocol syntax updated due to protocol revision.~~
- ~~Protocol syntax removed due to protocol revision.~~
- ~~Obsolete document removed.~~

~~Editorial changes are always classified with the change type **Editorially updated**.~~

Some important terms used in the change type descriptions are defined as follows:

- ~~**Protocol syntax**~~ refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- ~~**Protocol revision**~~ refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N) Revision class	Change type
2.2.4 Complex Types	72861 : Added references to the NotificationResult and NotificationResults types.	Y	Content update.
2.2.4.11.1 NotificationResult	72861 : Added section.	Y	New content added.
2.2.4.11.2 NotificationResults	72861 : Added section.	Y	New content added.
3.11.5 Message Processing Events and Sequencing Rules6 Appendix A: Full WSDL	72861 : Added references to the IClientNotificationProvider.NotifyClientByName, IClientNotificationProvider.NotifyClientById and IClientNotificationProvider.NotifyAllClients operations. Added schemas and WSDLs.	Ymajor	Content update.
3.11.5.3 IClientNotificationProvider.NotifyClientByName	72861 : Added section.	Y	New content added.
3.11.5.4 IClientNotificationProvider.NotifyClientById	72861 : Added section.	Y	New content added.
3.11.5.5 IClientNotificationProvider.NotifyAllClients	72861 : Added section.	Y	New content added.
6 Appendix A: Product BehaviorFull WSDL	Updated product applicability list.6787 : Added new schemas for all service contracts.	YMajor	Content update.

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