[MS-AZMP]:
Authorization Manager (AzMan) Policy File Format

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Revision Summary

Date	Revision History	Revision Class	Comments
06/17/2011	0.1	Major	Released new document.
09/23/2011	0.1	No change	No changes to the meaning, language, or formatting of the technical content.
12/16/2011	0.1	No change	No changes to the meaning, language, or formatting of the technical content.
03/30/2012	1.0	No change	No changes to the meaning, language, or formatting of the technical content.
07/12/2012	1.0	No change	No changes to the meaning, language, or formatting of the technical content.
10/25/2012	1.0	No change	No changes to the meaning, language, or formatting of the technical content.
01/31/2013	1.0	No change	No changes to the meaning, language, or formatting of the technical content.
08/08/2013	2.0	Major	Significantly changed the technical content.
11/14/2013	2.0	No change	No changes to the meaning, language, or formatting of the technical content.
02/13/2014	2.0	No change	No changes to the meaning, language, or formatting of the technical content.
05/15/2014	3.0	Major	Significantly changed the technical content.

Contents

1   Introduction

This document describes the structure of the XML file format used to preserve policy settings for Microsoft Authorization Manager (AzMan). Other formats are possible, but are not addressed in this document. This structure is currently used by all Windows AzMan implementations.

The AzMan XML policy format is used in order to enable interoperability by implementers. By using the specifications in this document, an implementer can:

- Create a AzMan XML policy file readable by the Microsoft Management Console (MMC) Authorization Manager snap-in, and by the authorization manager runtime used by applications to make authorization decisions.

- Read an AzMan XML policy file that was created using the MMC Authorization Manager snap-in.

Sections 1.7 and 2 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. All other sections and examples in this specification are informative.

1.1   Glossary

The following terms are defined in [MS-GLOS]:

GUID
SID

The following terms are specific to this document:

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

1.2   References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the documents, which are updated frequently. References to other documents include a publishing year when one is available.

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.

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

[RFC2251] Wahl, M., Howes, T., and Kille, S., "Lightweight Directory Access Protocol (v3)", RFC 2251, December 1997, http://www.ietf.org/rfc/rfc2251.txt

[XSD1.1-1] Gao, S., Sperberg-McQueen, C.M., and Thompson, H.S., Eds., "W3C XML Schema Definition Language (XSD) 1.1 Part 1: Structures", W3C Working Draft, December 2009, http://www.w3.org/TR/2009/WD-xmlschema11-1-20091203/

[XSD1.1-2] Peterson, D., Gao, S., Malhotra, A., et al., Eds., "W3C XML Schema Definition Language (XSD) 1.1 Part 2: Datatypes", W3C Working Draft, December 2009, http://www.w3.org/TR/2009/WD-xmlschema11-2-20091203/

1.2.2   Informative References

[MSDN-JScript] Microsoft Corporation, "JScript Language Reference (Windows Scripting - JScript)", http://msdn.microsoft.com/en-us/library/yek4tbz0(v=VS.85).aspx

[MSDN-VBScript] Microsoft Corporation, "VBScript Language Reference", http://msdn.microsoft.com/en-us/library/d1wf56tt(v=VS.85).aspx

[MS-GLOS] Microsoft Corporation, "Windows Protocols Master Glossary".

1.3   Structure Overview (Synopsis)

The XML structure (as described in [XSD1.1-1] and [XSD1.1-2]) defined in this document describes the Microsoft Authorization Manager (AzMan) policy. AzMan policy files are typically used in two ways:

1. Loaded by the Microsoft Management Console (MMC) Authorization Manager (AzMan) snap-in which allows the administrator to create and modify the authorization manager policy.

2. Loaded by the authorization manager runtime to allow applications to make authorization decisions.

1.4   Relationship to Protocols and Other Structures

The authorization manager policy file is used only by the authorization manager runtime and the Authorization Manager Microsoft Management Console snap-in. Otherwise, the structure is independent of any other structures or protocols except those referenced in this document.

1.5   Applicability Statement

The Microsoft Authorization Manager Policy XML policy file can be used in any environment where AzMan is supported. See Appendix C for a list of supported Operating System versions. It may be used in Active Directory domain-based environments or on stand-alone servers.

1.6   Versioning and Localization

Microsoft Authorization Manager policy files may be either version 1.0 or 2.0. The differences between version 1.0 and version 2.0 are minor and are pointed out in Section 2.

Windows Server 2008 operating system, Windows 7 operating system, Windows Server 2008 R2 operating system, Windows 8 operating system, Windows Server 2012 operating system, Windows 8.1 operating system, and Windows Server 2012 R2 operating system support the version 2.0 schema.

1.7   Vendor-Extensible Fields

None.

2   Structures

2.1   AzAdminManager

The **AzAdminManager** complex type defines an instance of an authorization manager policy.

The following is the XSD definition for the **AzAdminManager** complex type.

```
<xs:element name="AzAdminManager">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="AzApplication" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded" />
              <xs:element ref="AzTask" minOccurs="0" maxOccurs="unbounded" />
              <xs:element name="AzOperation" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="OperationID" type="xs:string" minOccurs="0"/>
                  </xs:sequence>
                  <xs:attribute name="Guid" type="xs:string" />
                  <xs:attribute name="Name" type="xs:string" />
                  <xs:attribute name="Description" type="xs:string" />
                </xs:complexType>
              </xs:element>
              <xs:element ref="AzRole" minOccurs="0" maxOccurs="unbounded" />
              <xs:element name="AzScope" minOccurs="0" maxOccurs="unbounded">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded"
  />

                    <xs:element ref="AzTask" minOccurs="0" maxOccurs="unbounded" />
                    <xs:element ref="AzRole" minOccurs="0" maxOccurs="unbounded" />
                  </xs:sequence>
                  <xs:attribute name="Guid" type="xs:string" />
                  <xs:attribute name="Name" type="xs:string" />
                  <xs:attribute name="Description" type="xs:string" />
                </xs:complexType>
              </xs:element>
            </xs:sequence>
            <xs:attribute name="Guid" type="xs:string" />
            <xs:attribute name="Name" type="xs:string" />
            <xs:attribute name="Description" type="xs:string" />
            <xs:attribute name="ApplicationVersion" type="xs:string" />
          </xs:complexType>
        </xs:element>
        <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
      <xs:attribute name="MajorVersion" type="xs:string" />
      <xs:attribute name="MinorVersion" type="xs:string" />
      <xs:attribute name="Guid" type="xs:string" />
      <xs:attribute name="Description" type="xs:string" />
    </xs:complexType>
</xs:element>
```

AzApplication: Defines an instance of an authorization manager application.

AzApplication.AzApplicationGroup: This element defines an **AzApplicationGroup** contained within the scope of an **AzApplication**. See section [2.2](#) for more details.

AzApplication.AzTask: This element defines an **AzTask** contained within the scope of an **AzApplication**. See section [2.4](#) for more details.

AzApplication.AzOperation: The AzOperation complex type defines each authorization manager operation in the policy.

AzApplication.AzOperation.OperationID: An integer value represented as a string which is the operation identifier for the **AzOperation**.

AzApplication.AzOperation.Guid: The unique identifier for the **AzOperation**.

AzApplication.AzOperation.Name: The name of the **AzOperation.**

AzApplication.AzOperation.Description: The description for the **AzOperation.**

AzApplication.AzRole: This element defines an **AzRole** contained within the scope of an **AzApplication**. See section [2.3](#) for more details.

AzApplication.AzScope: This element defines an **AzScope** contained within the scope of an **AzApplication**. A scope is a logical resource for which a specific authorization policy is defined.

AzApplication.AzScope.AzApplicationGroup: This element defines an **AzApplicationGroup** contained within this AzScope. See section [2.2](#) for more details.

AzApplication.AzScope.AzTask: This element defines an **AzTask** contained within this AzScope. See section [2.4](#) for more details.

AzApplication.AzScope.AzRole: This element defines an **AzRole** contained within this AzScope. See section [2.3](#) for more details.

AzApplication.AzScope.Guid: A **GUID** in string format which is the unique identifier for the **AzScope**.

AzApplication.AzScope.Name: The name of the **AzScope.**

AzApplication.AzScope.Description: The description for the **AzScope.**

AzApplication.Guid: The unique identifier for the **AzApplication**.

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

AzApplication.Description: The description for the **AzApplication.**

AzApplication.ApplicationVersion: An optional version of the **AzApplication** policy element.

AzApplicationGroup: This element defines an **AzApplicationGroup** that is global for every **AzApplication** instance, which differs from the **AzApplication.AzApplicationGroup** element. See section [2.2](#) for more details.

MajorVersion: The major version of the **AzAdminManager** policy. This MUST be set to either 1 or 2.

MinorVersion: The major version of the **AzAdminManager** policy. This MUST be set to 0.

Guid: The unique identifier for the **AzAdminManager** policy.

Release: Thursday, May 15, 2014

Description: The description for the **AzAdminManager** policy.

2.2 AzApplicationGroup

This element defines an authorization manager group. **AzApplicationGroup** can be used to define a global group that is used by all applications (every instance of **AzApplication**) in the policy or to define a local group that is specific to one specific application in the policy store. When the **AzApplicationGroup** element appears in the XML policy file at the highest level (child of **AzAdminManager**) the **AzApplicationGroup** is global. When the **AzApplicationGroup** element appears as a child of **AzApplication**, it defines a group local to the **AzApplication**.

The following is the XSD definition for the **AzApplicationGroup** complex type.

```
<xs:element name="AzApplicationGroup">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="BizRuleLanguage" type="xs:string" minOccurs="0" />
        <xs:element name="LdapQuery" type="xs:string" minOccurs="0" />
        <xs:element name="BizRule" type="xs:string" minOccurs="0" />
        <xs:element name="BizRuleImportedPath" type="xs:string" minOccurs="0" />
        <xs:element name="AppMemberLink" type="xs:string" minOccurs="0" />
        <xs:element name="Member" nillable="true" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element name="NonMember" nillable="true" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="Guid" type="xs:string" />
      <xs:attribute name="Name" type="xs:string" />
      <xs:attribute name="Description" type="xs:string" />
      <xs:attribute name="GroupType" type="xs:string" />
    </xs:complexType>
  </xs:element>
```

BizRuleLanguage: The language used to express a business rule in an AzApplicationGroup when GroupType="Bizrule". The possible values are "VBScript" (for more information, see [MSDN-VBScript]) or "JScript" (for more information, see [MSDN-JScript]). The BizRuleLanguage element is required for all AzApplicationGroup elements if GroupType equals "Bizrule". Otherwise, it is optional.

LdapQuery: When **GroupType** equals "LdapQuery", this element contains an LDAP query as described in [RFC2251]. If **GroupType** does not equal "LdapQuery", this element MUST NOT be present. In version 1.0 schema policy files, only queries against "user" (meaning where objectcategory=user) objects are supported. In version 2.0 schema policy files, any object type can be queried.

BizRule: When **GroupType** equals "BizRule", this element contains a business rule in the form of script text (HTML-encoded) in the language specified by **BizRuleLanguage**. If **GroupType** does not equal "BizRule", this element MUST NOT be present.

BizRuleImportedPath: When **GroupType** equals "BizRule", this element contains a fully qualified file system path to a file that contains the business rule as defined in **BizRule**. If **GroupType** does not equal "BizRule", this element MUST NOT be present.

AppMemberLink: Optional element that specifies the GUID of an **AzApplicationGroup** which is a member of the **AzApplicationGroup** defined by this section.

Member: Optional element that describes an explicit member of the **AzApplicationGroup**.

NonMember: Optional element that describes an explicit nonmember of the **AzApplicationGroup.**

Guid: The Globally Unique Identifier (GUID) of the **AzApplicationGroup.**

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

Description: The description for the **AzApplicationGroup**.

GroupType: This element defines the type of the **AzApplicationGroup**. The value MUST be one of the following strings:

- Basic

- BizRule

- LdapQuery

Note The BizRule GroupType is supported only in version 2.0 AzMan policies.

2.3   AzRole

The **AzRole** complex type defines each authorization manager role assignment in the policy.

The following is the XSD definition for the **AzRole** complex type.

```
  <xs:element name="AzRole">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="TaskLink" type="xs:string" minOccurs="0" />
          <xs:element name="Member" type="xs:string" minOccurs="0" />
          <xs:element name="AppMemberLink" nillable="true" minOccurs="0" maxOccurs="unbounded">
            <xs:complexType>
              <xs:simpleContent >
                <xs:extension base="xs:string">
                </xs:extension>
              </xs:simpleContent>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="Guid" type="xs:string" />
        <xs:attribute name="Name" type="xs:string" />
        <xs:attribute name="Description" type="xs:string" />
      </xs:complexType>
    </xs:element>
```

AzRole.TaskLink: An optional GUID(s) of one or more **AzTask** elements which is a subordinate task for this **AzTask** element. It MUST be a valid **AzTask** element in the **AzApplication** scope.

AzRole.Member: An optional element that describes a member of the **AzRole**. If present, the element MUST specify a **SID** for an Active Directory object, local computer user, or group object.

AzRole.AppMemberLink: An optional element that specifies the GUID of an **AzApplicationGroup** which defines the **AzRole**.

AzRole.Guid: The unique identifier for the **AzRole**.

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

AzRole.Description: The description for the **AzRole.**

2.4 AzTask

The **AzTask** complex type defines each authorization manager task and authorization manager role definition in the policy.

```
<xs:element name="AzTask">
   <xs:complexType>
     <xs:sequence>
       <xs:element name="TaskLink" type="xs:string" minOccurs="0" />
       <xs:element name="OperationLink" nillable="true" minOccurs="0" maxOccurs="unbounded">
         <xs:complexType>
           <xs:simpleContent msdata:ColumnName="OperationLink_Text">
             <xs:extension base="xs:string">
             </xs:extension>
           </xs:simpleContent>
         </xs:complexType>
       </xs:element>
     </xs:sequence>
     <xs:attribute name="Guid" type="xs:string" />
     <xs:attribute name="Name" type="xs:string" />
     <xs:attribute name="Description" type="xs:string" />
     <xs:attribute name="BizRuleImportedPath" type="xs:string" />
     <xs:attribute name="RoleDefinition" type="xs:string" />
   </xs:complexType>
</xs:element>
```

AzTask.TaskLink: An optional unique identifier of one or more **AzTask** elements which is a subordinate task for this **AzTask** element. It MUST be a valid **AzTask** element in the **AzApplication** scope.

AzTask.OperationLink: An optional unique identifier of one or more **AzOperation** elements which is a subordinate operation for this **AzTask** element. It MUST be a valid **AzOperation** element in the **AzApplication** scope.

AzTask.Guid: The unique identifier for the **AzTask.**

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

AzTask.Description: The description for the **AzTask.**

AzTask.BizRuleImportedPath: When **AzTask.RoleDefinition** is set to "true", this optional element specifies a fully qualified path to a script which defines an authorization rule for the role definition.

AzTask.RoleDefinition: When set to "true", this **AzTask** element defines an authorization manager role definition. When False, it defines an authorization manager task. No other value is permitted.

3 Structure Examples

The following is an example of an AzMan XML policy file:

```xml
<?xml version="1.0" encoding="utf-8"?>
<AzAdminManager MajorVersion="2" MinorVersion="0" Guid="c5217693-1a84-48ee-a9ae-65f0e10bd314"
Description="This is the description">
  <AzApplication Guid="f6ae8a28-57c3-4db8-9b7f-848aec862518" Name="Application#1"
Description="Application#1-Desc" ApplicationVersion="Application#1-Version">
    <AzApplicationGroup Guid="3736a1f3-3f3d-44f7-9fa4-eb6f9032e962" Name="App Group #1 -
Basic" Description="App Group #1 Description - Basic " GroupType="Basic">
      <BizRuleLanguage></BizRuleLanguage>
      <Member>S-1-5-21-3104031619-1062013444-2593988815-1115</Member>
      <Member>S-1-5-21-3104031619-1062013444-2593988815-1118</Member>
      <NonMember>S-1-5-21-3104031619-1062013444-2593988815-1116</NonMember>
      <NonMember>S-1-5-21-3104031619-1062013444-2593988815-1119</NonMember>
      <AppMemberLink>2db22bd5-4395-4645-9950-5509eb9d83b1</AppMemberLink>
    </AzApplicationGroup>
    <AzApplicationGroup Guid="f5fd6ac2-d435-4c51-8a9b-646d627ae448" Name="App Group #3 - Biz
Rule" Description="App Group #3 Desc - Biz Rule" GroupType="Bizrule">
      <BizRuleLanguage>JScript</BizRuleLanguage>
      <BizRule>
        AzBizRuleContext.BusinessRuleResult = false;
        dt = new Date();
        hour = dt.getHours();

        if (hour &gt; 9 &amp;&amp; hour &lt; 17)
        {
        AzBizRuleContext.BusinessRuleResult = true;
        }
      </BizRule>
      <BizRuleImportedPath>C:\Users\Administrator\Desktop\bizrule1.js</BizRuleImportedPath>
    </AzApplicationGroup>
    <AzTask Guid="82a494ed-dec3-4ae9-92a1-1d9e5fe436b1" Name="Role Definition #1"
Description="Desc - Role Definition #1" BizRuleImportedPath="" RoleDefinition="True">
      <TaskLink>26834981-a122-4fd1-9f00-8ff2b63f7f49</TaskLink>
    </AzTask>
    <AzOperation Guid="8f274e4c-3f73-4b56-85ee-df83df9d313a" Name="Operation #1"
Description="Desc - Operation #1">
      <OperationID>1</OperationID>
    </AzOperation>
    <AzOperation Guid="943864c8-869f-4ef4-9c84-e51fc380bb99" Name="Operation #2"
Description="Desc - Operation #2">
      <OperationID>2</OperationID>
    </AzOperation>
    <AzTask Guid="26834981-a122-4fd1-9f00-8ff2b63f7f49" Name="Task #1" Description="Desc -
Task #1" BizRuleImportedPath="">
      <OperationLink>8f274e4c-3f73-4b56-85ee-df83df9d313a</OperationLink>
      <OperationLink>943864c8-869f-4ef4-9c84-e51fc380bb99</OperationLink>
    </AzTask>
    <AzRole Guid="831d638d-9f9e-4883-a024-360f82afc705" Name="Role Assignment #1"
Description="Role Assignment #1">
      <TaskLink>82a494ed-dec3-4ae9-92a1-1d9e5fe436b1</TaskLink>
      <Member>S-1-5-21-1022818538-2633080746-2542160322-501</Member>
      <AppMemberLink>3736a1f3-3f3d-44f7-9fa4-eb6f9032e962</AppMemberLink>
      <AppMemberLink>99f5aabc-3c3a-47a8-8b0a-d5aa373c33e4</AppMemberLink>
    </AzRole>
    <AzApplicationGroup Guid="2ebce7bb-d172-46a8-8844-c1d7638103dd" Name="App Group #2 - Ldap
Query Group" Description="App Group #2 - Ldap Query Group" GroupType="LdapQuery">
```

```
        <BizRuleLanguage></BizRuleLanguage>
        <LdapQuery>(&amp;(objectCategory=person)(objectClass=user)(cn=david
mowers))</LdapQuery>
      </AzApplicationGroup>
      <AzApplicationGroup Guid="ab24f52f-ab12-43ff-818d-e6de1492acbf" Name="App Group #4 - Biz
Rule VBS" Description="App Group #4 - Biz Rule VBS" GroupType="Bizrule">
        <BizRuleLanguage>VBScript</BizRuleLanguage>
        <BizRule>
          AzBizRuleContext.BusinessRuleResult = FALSE
          Dim Amount
          Amount = AzBizRuleContext.GetParameter("Age")
          if Amount &gt; 25 then AzBizRuleContext.BusinessRuleResult = TRUE
        </BizRule>
        <BizRuleImportedPath>C:\Users\Administrator\Desktop\bizrule2.vbs</BizRuleImportedPath>
      </AzApplicationGroup>
    </AzApplication>
    <AzApplicationGroup Guid="99f5aabc-3c3a-47a8-8b0a-d5aa373c33e4" Name="AzMan Global Group#1
Basic Application Group" Description="AzMan Global Group#1-Desc" GroupType="Basic">
      <BizRuleLanguage></BizRuleLanguage>
    </AzApplicationGroup>
    <AzApplicationGroup Guid="2db22bd5-4395-4645-9950-5509eb9d83b1" Name="AzMan Global Group#2
LDAP Query Application Group" Description="AzMan Global Group#2-Desc" GroupType="LdapQuery">
      <BizRuleLanguage></BizRuleLanguage>
      <LdapQuery>This is the query</LdapQuery>
    </AzApplicationGroup>
    <AzApplicationGroup Guid="f2f3e0f1-4334-4736-b27d-b996240714ae" Name="AzMan Global Group#3
Business Rule Application Group" Description="AzMan Global Group#3-Desc" GroupType="Bizrule">
      <BizRuleLanguage>VBScript</BizRuleLanguage>
    </AzApplicationGroup>
  </AzAdminManager>
```

4 Security Considerations

4.1 Security Considerations for Implementers

None.

5 Appendix A: Full XML Schema

For ease of implementation, the following is the full XML schema for this protocol.

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
  <xs:element name="AzApplicationGroup">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="BizRuleLanguage" type="xs:string" minOccurs="0" />
        <xs:element name="LdapQuery" type="xs:string" minOccurs="0" />
        <xs:element name="BizRule" type="xs:string" minOccurs="0" />
        <xs:element name="BizRuleImportedPath" type="xs:string" minOccurs="0" />
        <xs:element name="AppMemberLink" type="xs:string" minOccurs="0" />
        <xs:element name="Member" nillable="true" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:simpleContent >
              <xs:extension base="xs:string">
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element name="NonMember" nillable="true" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:simpleContent >
              <xs:extension base="xs:string">
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="Guid" type="xs:string" />
      <xs:attribute name="Name" type="xs:string" />
      <xs:attribute name="Description" type="xs:string" />
      <xs:attribute name="GroupType" type="xs:string" />
    </xs:complexType>
  </xs:element>
  <xs:element name="AzTask">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="TaskLink" type="xs:string" minOccurs="0" />
        <xs:element name="OperationLink" nillable="true" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:simpleContent >
              <xs:extension base="xs:string">
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="Guid" type="xs:string" />
      <xs:attribute name="Name" type="xs:string" />
      <xs:attribute name="Description" type="xs:string" />
      <xs:attribute name="BizRuleImportedPath" type="xs:string" />
      <xs:attribute name="RoleDefinition" type="xs:string" />
    </xs:complexType>
  </xs:element>
```

```xml
<xs:element name="AzRole">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TaskLink" type="xs:string" minOccurs="0" />
      <xs:element name="Member" type="xs:string" minOccurs="0" />
      <xs:element name="AppMemberLink" nillable="true" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:simpleContent >
            <xs:extension base="xs:string">
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="Guid" type="xs:string" />
    <xs:attribute name="Name" type="xs:string" />
    <xs:attribute name="Description" type="xs:string" />
  </xs:complexType>
</xs:element>
<xs:element name="AzAdminManager">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="AzApplication" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded" />
            <xs:element ref="AzTask" minOccurs="0" maxOccurs="unbounded" />
            <xs:element name="AzOperation" minOccurs="0" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="OperationID" type="xs:string" minOccurs="0" />
                </xs:sequence>
                <xs:attribute name="Guid" type="xs:string" />
                <xs:attribute name="Name" type="xs:string" />
                <xs:attribute name="Description" type="xs:string" />
              </xs:complexType>
            </xs:element>
            <xs:element ref="AzRole" minOccurs="0" maxOccurs="unbounded" />
            <xs:element name="AzScope" minOccurs="0" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded"
 />
                  <xs:element ref="AzTask" minOccurs="0" maxOccurs="unbounded" />
                  <xs:element ref="AzRole" minOccurs="0" maxOccurs="unbounded" />
                </xs:sequence>
                <xs:attribute name="Guid" type="xs:string" />
                <xs:attribute name="Name" type="xs:string" />
                <xs:attribute name="Description" type="xs:string" />
              </xs:complexType>
            </xs:element>
          </xs:sequence>
          <xs:attribute name="Guid" type="xs:string" />
          <xs:attribute name="Name" type="xs:string" />
          <xs:attribute name="Description" type="xs:string" />
          <xs:attribute name="ApplicationVersion" type="xs:string" />
        </xs:complexType>
      </xs:element>
      <xs:element ref="AzApplicationGroup" minOccurs="0" maxOccurs="unbounded" />
```

```
        </xs:sequence>
        <xs:attribute name="MajorVersion" type="xs:string" />
        <xs:attribute name="MinorVersion" type="xs:string" />
        <xs:attribute name="Guid" type="xs:string" />
        <xs:attribute name="Description" type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="NewDataSet" >
      <xs:complexType>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element ref="AzApplicationGroup" />
          <xs:element ref="AzTask" />
          <xs:element ref="AzRole" />
          <xs:element ref="AzAdminManager" />
        </xs:choice>
      </xs:complexType>
    </xs:element>
</xs:schema>
```

6   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:

- Windows XP operating system

- Windows Server 2003 operating system

- Windows Server 2003 R2 operating system

- Windows Vista operating system

- Windows Server 2008 operating system

- Windows 7 operating system

- Windows Server 2008 R2 operating system

- Windows 8 operating system

- Windows Server 2012 operating system

- Windows 8.1 operating system

- Windows Server 2012 R2 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.

7   Change Tracking

This section identifies changes that were made to the [MS-AZMP] protocol document between the February 2014 and May 2014 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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.

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** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the 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)	Change type
2.1 AzAdminManager	66999 Added the AzApplicationGroup element definition.	Y	Content updated.
2.2 AzApplicationGroup	67003 Updated that the BizRuleLanguage element is required for all AzApplicationGroup elements if GroupType equals "Bizrule". Otherwise, it is optional.	Y	Content updated.
2.2 AzApplicationGroup	67001 Updated the Member element definition and removed the Member.Member_Text and the NonMember.Member_Text element definitions.	Y	Content updated.

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