

# [MS-UPIEWS]: User Profile Import and Export Web Service Protocol Specification

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## Revision Summary

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# 1 Introduction

This document specifies the User Profile Import/Export Web Service Protocol Specification (MS-UPIEWS). This protocol is used to import and export user properties stored in profiles and groups of users data to and from the database that stores the information about each profile.

Sections 1.8, 2, and 3 of this specification are normative and contain RFC 2119 language. Sections 1.5 and 1.9 are also normative but cannot contain RFC 2119 language. All other sections and examples in this specification are informative.

## 1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

**directory service (DS)**  
**distinguished name (DN)**  
**GUID**  
**Hypertext Transfer Protocol (HTTP)**

The following terms are defined in [\[MS-OFCGLOS\]](#):

**Business Data Connectivity (BDC)**  
**Entity**  
**EntityInstance**  
**Identifier**  
**member group**  
**partition**  
**Simple Object Access Protocol (SOAP)**  
**SOAP action**  
**SOAP body**  
**SOAP fault**  
**user profile**  
**user profile store**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL operation**  
**XML namespace**  
**XML namespace prefix**  
**XML schema**

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 Specification documents 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](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-UPIESP] Microsoft Corporation, "[User Profile Import and Export Stored Procedures Protocol Specification](#)".

[MS-USRPCH] Microsoft Corporation, "[User Profile Change Log Web Service Protocol Specification](#)".

[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>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

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

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "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

[LDAP] Microsoft Corporation, "About Lightweight Directory Access Protocol", <http://msdn.microsoft.com/en-us/library/aa366075.aspx>

If you have any trouble finding [LDAP], please check [here](#).

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

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".



### 1.3 Protocol Overview (Synopsis)

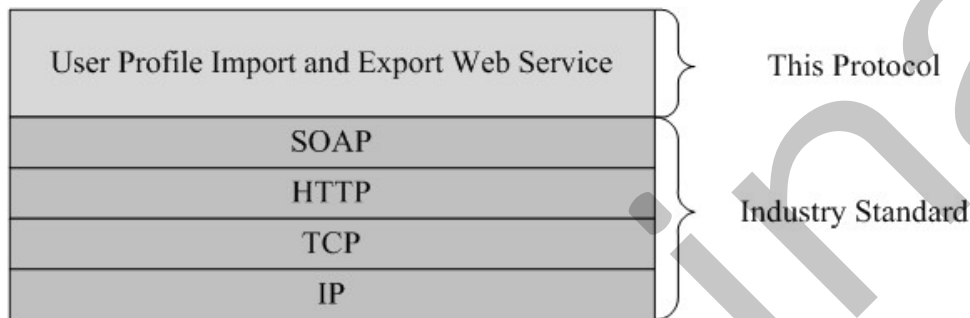
This protocol is used to import and export **user profile** and **member group** data to and from the **user profile store**. A typical scenario for using this protocol is a synchronization application that runs at fixed intervals to keep the user profile store and an [\[LDAP\] directory service \(DS\)](#) in sync.

The protocol supports methods to retrieve all user profiles or only user profiles that have changed since a specific time. The protocol also allows importing **Business Data Connectivity (BDC)** data for specific user profile properties for existing user profiles.

### 1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). The content of the messages is described by this protocol, as well as [\[MS-UPIESP\]](#) and [\[MS-USRPCH\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#).

The following diagram shows the underlying messaging and transport stack used by the protocol.



**Figure 1: This protocol in relation to other protocols**

### 1.5 Prerequisites/Preconditions

This protocol operates against a site that is identified by a URL that is known by protocol clients. The protocol server endpoint is formed by appending `"/_vti_bin/profileimportexportservice.asmx"` to the URL of the site, for example: `http://www.contoso.com/_vti_bin/profileimportexportservice.asmx`.

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

### 1.6 Applicability Statement

This protocol is designed for flowing user and group data across the user profile store and external directory services (DS). It is applicable when the protocol client is acting as a broker between directory services and the user profile store.

This protocol was designed with the intention of supporting a scale point of approximately:

- 2 million users
- an average of 100 member groups per user profile, up to a total of 1 million member groups
- 10 million group memberships

This protocol does not specify how the data should be stored in the external directory services, how the protocol client should connect to the external directory services, or what synchronization logic should be used by the protocol client when flowing data between the user profile store and the external directory services.

### **1.7 Versioning and Capability Negotiation**

None.

### **1.8 Vendor-Extensible Fields**

None.

### **1.9 Standards Assignments**

None.

## 2 Messages

### 2.1 Transport

Protocol servers MUST support SOAP over HTTP. Protocol servers SHOULD additionally support SOAP over HTTPS for securing communication with clients.

Protocol messages MUST be formatted as specified either in [\[SOAP1.1\]](#), section 4 or in [\[SOAP1.2/1\]](#), section 5. Server faults MUST be returned either using HTTP Status Codes as specified in [\[RFC2616\]](#), section 10 or using **SOAP faults** as specified either in [\[SOAP1.1\]](#), section 4.4 or in [\[SOAP1.2/1\]](#), section 5.4.

### 2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses XML Schema as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **WSDL** as defined in [\[WSDL\]](#).

#### 2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). 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
http	<a href="http://schemas.xmlsoap.org/wsdl/http/">http://schemas.xmlsoap.org/wsdl/http/</a>	
s1	<a href="http://microsoft.com/wsdl/types/">http://microsoft.com/wsdl/types/</a>	
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
soap12	<a href="http://schemas.xmlsoap.org/wsdl/soap12/">http://schemas.xmlsoap.org/wsdl/soap12/</a>	<a href="#">[SOAP1.2/1]</a> <a href="#">[SOAP1.2/2]</a>
tns	<a href="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService">http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService</a>	
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a> ↓ <a href="#">[XMLSCHEMA2]</a> ↓

#### 2.2.2 Messages

This specification does not define any common WSDL message definitions.

#### 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
ArrayOfAnyType	The <b>ArrayOfAnyType</b> complex type MUST be an array of instances of any object type. Zero instances in the array means that an empty array is provided.
ArrayOfProfileChangeData	The <b>ArrayOfProfileChangeData</b> complex type MUST be an array of instances of <b>ProfileChangeData</b> objects. This array is used to provide a list of changes made to user profiles. Zero instances in the array means that an empty array is provided.
ArrayOfPropertyChangeData	The <b>ArrayOfPropertyChangeData</b> complex type MUST be an array of instances of <b>PropertyChangeData</b> objects. This array is used to provide a list of property changes. Zero instances in the array means that an empty array is provided.
ArrayOfString	The <b>ArrayOfString</b> complex type MUST be a set of strings. Zero instances in the array means that an empty array is provided.
ProfileChangeData	This object MUST contain the data of changes made to a profile along with the Profile Identifier, and <b>DistinguishedName</b> that are used to identify the profile. Each object represents a profile and contains a list of changes made to its various properties. Zero occurrences of an element means that empty data is provided. The ProfileChangeData object does not match a profile if the <b>ProfileIdentifier</b> or DistinguishedName is not provided. It will be an invalid object. <b>ProfileIdentifier</b> and DistinguishedName objects SHOULD be present.
ProfileChangeDataContainer	The <b>ProfileChangeDataContainer</b> complex type MUST contain a list of <b>ProfileChangeData</b> objects (section 2.2.4.5). Zero objects in the list means that an empty list is provided.
PropertyChangeData	An object that holds the data of a change made to a property. Zero occurrences of an element means that empty data is provided.

### 2.2.4.1 ArrayOfAnyType

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ArrayOfAnyType** complex type MUST be an array of instances of any object type. Zero instances in the array means that an empty array is provided.

```
<xs:complexType name="ArrayOfAnyType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"/>
  </xs:sequence>
</xs:complexType>
```

**anyType:** An anyType value as specified in [\[XMLSCHEMA1\]](#).

## 2.2.4.2 ArrayOfProfileChangeData

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ArrayOfProfileChangeData** complex type MUST be an array of instances of **ProfileChangeData** objects. This array is used to provide a list of changes made to user profiles. Zero instances in the array means that an empty array is provided.

```
<xs:complexType name="ArrayOfProfileChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ProfileChangeData" nillable="true"
      type="tns:ProfileChangeData"/>
  </xs:sequence>
</xs:complexType>
```

**ProfileChangeData:** An object that holds the data of changes made to a profile along with **ProfileIdentifier** and **DistinguishedName** that are used to identify the profile.

## 2.2.4.3 ArrayOfPropertyChangeData

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ArrayOfPropertyChangeData** complex type MUST be an array of instances of **PropertyChangeData** objects. This array is used to provide a list of property changes. Zero instances in the array means that an empty array is provided.

```
<xs:complexType name="ArrayOfPropertyChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyChangeData" nillable="true"
      type="tns:PropertyChangeData"/>
  </xs:sequence>
</xs:complexType>
```

**PropertyChangeData:** An object that holds the data of changes made to a property. Specified in section [2.2.4.7](#).

## 2.2.4.4 ArrayOfString

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ArrayOfString** complex type MUST be a set of strings. Zero instances in the array means that an empty array is provided.

```
<xs:complexType name="ArrayOfString" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
      type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**string:** A single element in the array of strings.

### 2.2.4.5 ProfileChangeData

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

This object MUST contain the data of changes made to a profile along with the Profile Identifier, and **DistinguishedName** that are used to identify the profile. Each object represents a profile and contains a list of changes made to its various properties. Zero occurrences of an element means that empty data is provided. The ProfileChangeData object does not match a profile if the **ProfileIdentifier** or DistinguishedName is not provided. It will be an invalid object. **ProfileIdentifier** and DistinguishedName objects SHOULD be present.

```
<xs:complexType name="ProfileChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ProfileIdentifier" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DistinguishedName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ObjectGuid"
      xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ObjectClass" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="PropertyChanges"
      type="tns:ArrayOfPropertyChangeData"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ChangeType" type="tns:ChangeTypes"/>
  </xs:sequence>
</xs:complexType>
```

**ProfileIdentifier:** Unique string used to identify a profile object in the user profile store. This string MUST be a string that can be used to identify or retrieve the profile objects. The profile identifier is provided by the protocol client for import operations and the protocol server for export operations. E.g. For user and contact object types this is the 'AccountName', and for group object types, it is the 'SourceReference'. The element SHOULD be present.

**DistinguishedName:** The **distinguished name (DN) (1)** of the profile object. The element SHOULD be present.

**ObjectGuid:** Unused.

**ObjectClass:** Defines the type of profile. This value MUST be one of the following: "user", "group", "contact".

**PropertyChanges:** Contains one **PropertyChangeData** instance for each changed property. Each PropertyChangeData MUST be populated as specified in section [2.2.4.7](#).

**ChangeType:** Defines the type of change made to the profile. This value MUST be one of the following: Add, Delete, or Modify. The enumeration values "None", "Metadata" and "All" are preserved for backward compatibility but are not used anymore.

### 2.2.4.6 ProfileChangeDataContainer

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ProfileChangeDataContainer** complex type MUST contain a list of **ProfileChangeData** objects (section [2.2.4.5](#)). Zero objects in the list means that an empty list is provided.

```
<xs:complexType name="ProfileChangeDataContainer"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
```

```

    <xs:element minOccurs="0" maxOccurs="1" name="ProfileChangeData"
type="tns:ArrayOfProfileChangeData"/>
    <xs:element minOccurs="1" maxOccurs="1" name="LastId" type="xs:long"/>
    <xs:element minOccurs="0" maxOccurs="1" name="LastChangeToken" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**ProfileChangeData:** Specified in section [2.2.4.5](#).

**LastId:** RecordId of the last profile in the **ProfileChangeData** array, as specified in [\[MS-UPIESP\]](#) section 2.2.5.3.

**LastChangeToken:** ChangeToken of the last Profile that was synchronized, as specified in [\[MS-USRPCH\]](#) section 2.2.4.3. This will be set if there are Organization or User profile objects in the return set. If there are no Organization or User profile objects in the return set the ChangeToken is an empty string.

### 2.2.4.7 PropertyChangeData

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

An object that holds the data of a change made to a property. Zero occurrences of an element means that empty data is provided.

```

<xs:complexType name="PropertyChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ChangeType" type="tns:ChangeTypes"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Values" type="tns:ArrayOfAnyType"/>
  </xs:sequence>
</xs:complexType>

```

**Name:** Name of the property that changed.

**ChangeType:** Defines the type of change made to the property. If the property is a single value property, this value MUST be Modify. If the property is a multiple value property, this value MUST be one of the following: Add, Delete, or Modify.

**Values:** If **ChangeType** is set to Modify, this value MUST contain all the current values for the property that will replace the previous ones. If **ChangeType** is set to Add, this value MUST contain only the new values to be aggregated with the previous ones. If **ChangeType** is set to Delete, this value MUST contain only the values deleted from the previous ones.

### 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
ChangeTypes	The <b>ChangeTypes</b> enumeration MUST define all the available types of changes that can be made to a profile.

Simple type	Description
guid	This MUST be a Unique Identifier.

### 2.2.5.1 ChangeTypes

**Namespace:** http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService

The **ChangeTypes** enumeration MUST define all the available types of changes that can be made to a profile.

```
<xs:simpleType name="ChangeTypes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Add"/>
        <xs:enumeration value="Modify"/>
        <xs:enumeration value="Delete"/>
        <xs:enumeration value="Metadata"/>
        <xs:enumeration value="All"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for **ChangeTypes**.

Value	Meaning
None	No change was made.
Add	A new profile has been added. This <b>ChangeType</b> MUST be specified when a new User is being added to the profile store. This MUST be the <b>ChangeType</b> returned in the <b>ProfileChangeData</b> from a call to <b>RetrieveProfileChangeDataFull</b> .
Modify	At least one property on the profile has changed. This <b>ChangeType</b> MUST be used when changes are made to a userprofile which already exists in the profile store.
Delete	Profile has been deleted.
Metadata	Profile metadata has been changed.
All	All the preceding types of changes have been made.

### 2.2.5.2 guid

**Namespace:** http://microsoft.com/wsdl/types/

This MUST be a Unique Identifier.

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```



</xs:simpleType>

### **2.2.6 Attributes**

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

### **2.2.7 Groups**

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

### **2.2.8 Attribute Groups**

This specification does not define any common XML schema attribute group definitions.

## 3 Protocol Details

The client side of this protocol is a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

### 3.1 Server Details

#### 3.1.1 Abstract Data Model

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

The protocol server maintains the following data:

- A list of member groups and the user profiles that belong to them.
- A reconciliation of member groups that contain other member groups such that users belonging to a child member group are identified as belonging in the parent member group.
- A list of BDC entities.
- A list of **partitions (1)**.
- The state information about whether a profile import or export session is in progress. A session is in progress if an InitializeProfileImportExportProcess is called and the FinalizeProfileImportExportProcess is not yet called.

#### 3.1.2 Timers

None.

#### 3.1.3 Initialization

None.

#### 3.1.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of operations as defined by this specification:

Operation	Description
FinalizeProfileImportExportProcess	This operation marks the end of a synchronization run.
GetImportProperties	This operation returns the object types and their list of properties configured to be imported in the server.
GetPartitionIds	This operation MUST return the partition (1) ids for all partitions that the user profile application is associated with.
GetProfileImportClientMode	This method retrieves the Profile Import mode for the associated User Profile Application. <1>

Operation	Description
InitializeProfileImportExportProcess	This operation marks the beginning of a synchronization run.
RetrieveBDCProfileChangeData	This operation is used to retrieve an array of <b>ProfileChangeData</b> objects for all entity objects in a BDC data source. This data is retrieved from the Business Data Entity that the particular BDC connection points to. This call <b>MUST</b> always be done after an <b>InitializeProfileImportExportProcess</b> call has been done and a <b>FinalizeImportExportProcess</b> call <b>MUST</b> be made sometime before another <b>InitializeProfileImportExportProcess</b> call is done.
RetrieveProfileChangeDataDelta	This operation is used to retrieve an array of <b>ProfileChangeData</b> objects for user profiles that changed since the last synchronization run. There can only be one synchronization run active at any time. This call <b>MUST</b> always be done after an <b>InitializeProfileImportExportProcess</b> call has been done and a <b>FinalizeImportExportProcess</b> call <b>MUST</b> be made sometime before another <b>InitializeProfileImportExportProcess</b> call is done.
RetrieveProfileChangeDataFull	This operation <b>MUST</b> return an array of <b>ProfileChangeData</b> objects for profiles that have been originally imported from Active Directory or LDAP data sources so that their properties can be synchronized with the connected data sources. This is the complete list of groups and users along with their properties. This call <b>MUST</b> always be done after an <b>InitializeProfileImportExportProcess</b> call has been done and a <b>FinalizeImportExportProcess</b> call <b>MUST</b> be made sometime before another <b>InitializeProfileImportExportProcess</b> call is done.
UpdateWithProfileChangeData	This operation updates the user profile store with changes for the connected data sources. This is the list of groups and users along with their properties that have changed since the last call.

### 3.1.4.1 FinalizeProfileImportExportProcess

This operation marks the end of a synchronization run.

```
<wsdl:operation name="FinalizeProfileImportExportProcess"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:FinalizeProfileImportExportProcessSoapIn"/>
  <wsdl:output message="tns:FinalizeProfileImportExportProcessSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **FinalizeProfileImportExportProcessSoapIn** request message and the protocol server responds with a **FinalizeProfileImportExportProcessSoapOut** response message.

The method sends the `importExportId` that identifies the current synchronization run context.

#### 3.1.4.1.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

Message	Description
FinalizeProfileImportExportProcessSoapIn	The request WSDL message for the <b>FinalizeProfileImportExportProcess</b> WSDL operation.
FinalizeProfileImportExportProcessSoapOut	The response WSDL message for the <b>FinalizeProfileImportExportProcess</b> WSDL operation.

### 3.1.4.1.1.1 FinalizeProfileImportExportProcessSoapIn

The request WSDL message for the **FinalizeProfileImportExportProcess** WSDL operation.

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/FinalizeProfileImportExportProcess
```

The **SOAP body** contains the **FinalizeProfileImportExportProcess** element.

### 3.1.4.1.1.2 FinalizeProfileImportExportProcessSoapOut

The response WSDL message for the **FinalizeProfileImportExportProcess** WSDL operation.

The SOAP body contains the **FinalizeProfileImportExportProcessResponse** element.

### 3.1.4.1.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
FinalizeProfileImportExportProcess	The input data for the <b>FinalizeProfileImportExportProcess</b> WSDL operation.
FinalizeProfileImportExportProcessResponse	The result data for the <b>FinalizeProfileImportExportProcess</b> WSDL operation.

### 3.1.4.1.2.1 FinalizeProfileImportExportProcess

The input data for the **FinalizeProfileImportExportProcess** WSDL operation.

```
<xs:element name="FinalizeProfileImportExportProcess"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**importExportId:** importExportId as specified in section [3.1.4.7.2.1](#).

### 3.1.4.1.2.2 FinalizeProfileImportExportProcessResponse

The result data for the **FinalizeProfileImportExportProcess** WSDL operation.

```
<xs:element name="FinalizeProfileImportExportProcessResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

### 3.1.4.1.3 Complex Types

None.

### 3.1.4.1.4 Simple Types

None.

### 3.1.4.1.5 Attributes

None.

### 3.1.4.1.6 Groups

None.

### 3.1.4.1.7 Attribute Groups

None.

## 3.1.4.2 GetImportProperties

This operation returns the object types and their list of properties configured to be imported in the server.

```
<wsdl:operation name="GetImportProperties" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetImportPropertiesSoapIn"/>
  <wsdl:output message="tns:GetImportPropertiesSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetImportPropertiesSoapIn** request message and the protocol server responds with a **GetImportPropertiesSoapOut** response message.

### 3.1.4.2.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetImportPropertiesSoapIn	The request WSDL message for the <b>GetImportProperties</b> WSDL operation.
GetImportPropertiesSoapOut	The response WSDL message for the <b>GetImportProperties</b> WSDL operation.

Message	Description
	operation.

### 3.1.4.2.1.1 GetImportPropertiesSoapIn

The request WSDL message for the **GetImportProperties** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetImportProperties
```

The SOAP body contains the **GetImportProperties** element.

### 3.1.4.2.1.2 GetImportPropertiesSoapOut

The response WSDL message for the **GetImportProperties** WSDL operation.

The SOAP body contains the **GetImportPropertiesResponse** element.

### 3.1.4.2.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
GetImportProperties	The input data for the <b>GetImportProperties</b> WSDL operation.
GetImportPropertiesResponse	The result data for the <b>GetImportProperties</b> WSDL operation.

#### 3.1.4.2.2.1 GetImportProperties

The input data for the **GetImportProperties** WSDL operation.

```
<xs:element name="GetImportProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

#### 3.1.4.2.2.2 GetImportPropertiesResponse

The result data for the **GetImportProperties** WSDL operation.

```
<xs:element name="GetImportPropertiesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetImportPropertiesResult"
        type="tns:ArrayOfImportExportProperties"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetImportPropertiesResult:** An array of ImportExportProperties as specified in section [3.1.4.2.3.1](#).

### 3.1.4.2.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfImportExportProperties	
ImportExportProperties	

#### 3.1.4.2.3.1 ArrayOfImportExportProperties

**Namespace:** <http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService>

The ArrayOfImportExportProperties complex type is an array of instances of ImportExportProperties objects. This array is used to provide a list of object types being imported with their respective properties.

```
<xs:complexType name="ArrayOfImportExportProperties"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ImportExportProperties"
nillable="true" type="tns:ImportExportProperties"/>
  </xs:sequence>
</xs:complexType>
```

**ImportExportProperties:** Specified in section [3.1.4.2.3.2](#).

#### 3.1.4.2.3.2 ImportExportProperties

**Namespace:** <http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService>

An object that holds the data of the properties configured to be imported for one specific object type.

```
<xs:complexType name="ImportExportProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="TypeName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Properties" type="tns:ArrayOfString"/>
  </xs:sequence>
</xs:complexType>
```

**TypeName:** Defines the name of the object type.

**Properties:** An array containing the names of the properties configured to be imported for this specific object type.

#### 3.1.4.2.4 Simple Types

None.

### 3.1.4.2.5 Attributes

None.

### 3.1.4.2.6 Groups

None.

### 3.1.4.2.7 Attribute Groups

None.

### 3.1.4.3 GetPartitionIds

This operation MUST return the partition (1) ids for all partitions that the user profile application is associated with.

```
<wsdl:operation name="GetPartitionIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetPartitionIdsSoapIn"/>
  <wsdl:output message="tns:GetPartitionIdsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetPartitionIdsSoapIn** request message and the protocol server responds with a **GetPartitionIdsSoapOut** response message.

#### 3.1.4.3.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetPartitionIdsSoapIn	The request WSDL message for the <b>GetPartitionIds</b> WSDL operation.
GetPartitionIdsSoapOut	The response WSDL message for the <b>GetPartitionIds</b> WSDL operation.

##### 3.1.4.3.1.1 GetPartitionIdsSoapIn

The request WSDL message for the **GetPartitionIds** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetPartitionIds
```

The SOAP body contains the **GetPartitionIds** element.

##### 3.1.4.3.1.2 GetPartitionIdsSoapOut

The response WSDL message for the **GetPartitionIds** WSDL operation.

The SOAP body contains the **GetPartitionIdsResponse** element.



### 3.1.4.3.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
GetPartitionIds	The input data for the <b>GetPartitionIds</b> WSDL operation.
GetPartitionIdsResponse	The result data for the <b>GetPartitionIds</b> WSDL operation.

#### 3.1.4.3.2.1 GetPartitionIds

The input data for the **GetPartitionIds** WSDL operation.

```
<xs:element name="GetPartitionIds" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

#### 3.1.4.3.2.2 GetPartitionIdsResponse

The result data for the **GetPartitionIds** WSDL operation.

```
<xs:element name="GetPartitionIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetPartitionIdsResult"
        type="tns:ArrayOfGuid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPartitionIdsResult:** An array of partition (1) identifiers.

#### 3.1.4.3.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
ArrayOfGuid	

##### 3.1.4.3.3.1 ArrayOfGuid

**Namespace:** <http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService>

This is an array of **GUID** data types.

```
<xs:complexType name="ArrayOfGuid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid"
      xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
  </xs:sequence>
</xs:complexType>
```

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

**guid:** A GUID.

#### 3.1.4.3.4 Simple Types

None.

#### 3.1.4.3.5 Attributes

None.

#### 3.1.4.3.6 Groups

None.

#### 3.1.4.3.7 Attribute Groups

None.

#### 3.1.4.4 InitializeProfileImportExportProcess

This operation marks the beginning of a synchronization run.

```
<wsdl:operation name="InitializeProfileImportExportProcess"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:InitializeProfileImportExportProcessSoapIn"/>
  <wsdl:output message="tns:InitializeProfileImportExportProcessSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **InitializeProfileImportExportProcessSoapIn** request message and the protocol server responds with an **InitializeProfileImportExportProcessSoapOut** response message.

At the beginning of a synchronization run, the protocol client calls this method and gets the `importexportId`, (specified in **RetrieveProfileChangeDataFull**, section [3.1.4.7.2.1](#)) that is used by the protocol client during subsequent calls to other methods on the Web service during synchronization. There **MUST** only be one synchronization run active at any time. The attempt to start another synchronization run will change the `ImportExportId` and group membership changes made with the previous id will be lost.

##### 3.1.4.4.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
InitializeProfileImportExportProcessSoapIn	The request WSDL message for the <b>InitializeProfileImportExportProcess</b> WSDL operation.
InitializeProfileImportExportProcessSoapOut	The response WSDL message for the

Message	Description
	<b>InitializeProfileImportExportProcess</b> WSDL operation.

#### 3.1.4.4.1.1 InitializeProfileImportExportProcessSoapIn

The request WSDL message for the **InitializeProfileImportExportProcess** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/InitializeProfileImportExportProcess
```

The SOAP body contains the **InitializeProfileImportExportProcess** element.

#### 3.1.4.4.1.2 InitializeProfileImportExportProcessSoapOut

The response WSDL message for the **InitializeProfileImportExportProcess** WSDL operation.

The SOAP body contains the **InitializeProfileImportExportProcessResponse** element.

#### 3.1.4.4.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
InitializeProfileImportExportProcess	The input data for the <b>InitializeProfileImportExportProcess</b> WSDL operation.
InitializeProfileImportExportProcessResponse	The result data for the <b>InitializeProfileImportExportProcess</b> WSDL operation.

##### 3.1.4.4.2.1 InitializeProfileImportExportProcess

The input data for the **InitializeProfileImportExportProcess** WSDL operation.

```
<xs:element name="InitializeProfileImportExportProcess"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

##### 3.1.4.4.2.2 InitializeProfileImportExportProcessResponse

The result data for the **InitializeProfileImportExportProcess** WSDL operation.

```
<xs:element name="InitializeProfileImportExportProcessResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1"
name="InitializeProfileImportExportProcessResult" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

**InitializeProfileImportExportProcessResult:** importExportId integer value that uniquely identifies the current synchronization run context.

### 3.1.4.4.3 Complex Types

None.

### 3.1.4.4.4 Simple Types

None.

### 3.1.4.4.5 Attributes

None.

### 3.1.4.4.6 Groups

None.

### 3.1.4.4.7 Attribute Groups

None.

## 3.1.4.5 RetrieveBDCProfileChangeData

This operation is used to retrieve an array of **ProfileChangeData** objects for all entity objects in a BDC data source. This data is retrieved from the Business Data Entity that the particular BDC connection points to. This call **MUST** always be done after an **InitializeProfileImportExportProcess** call has been done and a **FinalizeImportExportProcess** call **MUST** be made sometime before another **InitializeProfileImportExportProcess** call is done.

```
<wsdl:operation name="RetrieveBDCProfileChangeData"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RetrieveBDCProfileChangeDataSoapIn"/>
  <wsdl:output message="tns:RetrieveBDCProfileChangeDataSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **RetrieveBDCProfileChangeDataSoapIn** request message and the protocol server responds with a **RetrieveBDCProfileChangeDataSoapOut** response message.

This method returns an array of **ProfileChangeData** objects for all entity objects in an **EntityInstance** from the BDC data source. The EntityInstance and the data source information are provided as the input parameters to the method.

### 3.1.4.5.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
RetrieveBDCProfileChangeDataSoapIn	The request WSDL message for the <b>RetrieveBDCProfileChangeData</b> WSDL operation.
RetrieveBDCProfileChangeDataSoapOut	The response WSDL message for the <b>RetrieveBDCProfileChangeData</b> WSDL operation.

### 3.1.4.5.1.1 RetrieveBDCProfileChangeDataSoapIn

The request WSDL message for the **RetrieveBDCProfileChangeData** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveBDCProfileChangeData
```

The SOAP body contains the **RetrieveBDCProfileChangeData** element.

### 3.1.4.5.1.2 RetrieveBDCProfileChangeDataSoapOut

The response WSDL message for the **RetrieveBDCProfileChangeData** WSDL operation.

The SOAP body contains the **RetrieveBDCProfileChangeDataResponse** element.

### 3.1.4.5.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
RetrieveBDCProfileChangeData	The input data for the <b>RetrieveBDCProfileChangeData</b> WSDL operation.
RetrieveBDCProfileChangeDataResponse	The result data for the <b>RetrieveBDCProfileChangeData</b> WSDL operation.

#### 3.1.4.5.2.1 RetrieveBDCProfileChangeData

The input data for the **RetrieveBDCProfileChangeData** WSDL operation.

```
<xs:element name="RetrieveBDCProfileChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="instanceName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="entityNameSpace" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="entityName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="filterName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="mossJoinAttribute" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="bdcJoinAttribute" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="propertyList" type="tns:ArrayOfString"/>
      <xs:element minOccurs="1" maxOccurs="1" name="recordId" type="xs:long"/>
      <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="1" maxOccurs="1" name="partitionId"
      xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**instanceName:** The name that identifies the data catalog EntityInstance to retrieve data from.

**entityNameSpace:** The string that identifies the data catalog entity XML namespace.

**entityName:** The name that identifies the **Entity** in the data catalog that contains the instance to retrieve data from.

**filterName:** The name of the instance filter in BDC when using a one-to-many mapping from the data source to user profile store. The filter is a method that would run on the initial results to narrow them down to the desired set of results. This filter is a method that is implemented in the Entity and is executed by the BDC service to get the requested data from the BDC data source.

**mossJoinAttribute:** Name of the property in the user profile that contains the value to be used as the **Identifier** of the EntityInstance when making the queries to the BDC data source.

**bdcJoinAttribute:** MUST be ignored by the server.

**propertyList:** **propertyList** as specified in section [3.1.4.7.2.1](#).

**recordId:** recordId as specified in [\[MS-UPIESP\]](#) section 2.2.5.3. The recordId supplied MUST be the starting record Id form where to start the retrieving for the data.

**pageSize:** The maximum number of records to retrieve from the data source. If the number to total records is more than the **pageSize**, the result set MUST return only the first pageSize number of records.

**partitionId:** A GUID used to filter the current request. This value MUST NOT be null or empty. This value limits the change data returned to the data contained in the specified partition (1).

### 3.1.4.5.2.2 RetrieveBDCProfileChangeDataResponse

The result data for the **RetrieveBDCProfileChangeData** WSDL operation.

```

<xs:element name="RetrieveBDCProfileChangeDataResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RetrieveBDCProfileChangeDataResult"
        type="tns:ProfileChangeDataContainer"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**RetrieveBDCProfileChangeDataResult:** A **ProfileChangeDataContainer** object, which is an array of **ProfileChangeData** objects.

### 3.1.4.5.3 Complex Types

None.

#### 3.1.4.5.4 Simple Types

None.

#### 3.1.4.5.5 Attributes

None.

#### 3.1.4.5.6 Groups

None.

#### 3.1.4.5.7 Attribute Groups

None.

#### 3.1.4.6 RetrieveProfileChangeDataDelta

This operation is used to retrieve an array of **ProfileChangeData** objects for user profiles that changed since the last synchronization run. There can only be one synchronization run active at any time. This call **MUST** always be done after an **InitializeProfileImportExportProcess** call has been done and a **FinalizeImportExportProcess** call **MUST** be made sometime before another **InitializeProfileImportExportProcess** call is done.

```
<wsdl:operation name="RetrieveProfileChangeDataDelta"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RetrieveProfileChangeDataDeltaSoapIn"/>
  <wsdl:output message="tns:RetrieveProfileChangeDataDeltaSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **RetrieveProfileChangeDataDeltaSoapIn** request message and the protocol server responds with a **RetrieveProfileChangeDataDeltaSoapOut** response message.

The method returns only the **ProfileChangeData** objects for profiles changed since the last synchronization run and their properties.

Additionally, the method **MUST** return only profiles that belong to the partition (1) specified by the `partitionId` parameter.

##### 3.1.4.6.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
RetrieveProfileChangeDataDeltaSoapIn	The request WSDL message for the <b>RetrieveProfileChangeDataDelta</b> WSDL operation.
RetrieveProfileChangeDataDeltaSoapOut	The response WSDL message for the <b>RetrieveProfileChangeDataDelta</b> WSDL operation.

### 3.1.4.6.1.1 RetrieveProfileChangeDataDeltaSoapIn

The request WSDL message for the **RetrieveProfileChangeDataDelta** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataDelta
```

The SOAP body contains the **RetrieveProfileChangeDataDelta** element.

### 3.1.4.6.1.2 RetrieveProfileChangeDataDeltaSoapOut

The response WSDL message for the **RetrieveProfileChangeDataDelta** WSDL operation.

The SOAP body contains the **RetrieveProfileChangeDataDeltaResponse** element.

### 3.1.4.6.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
RetrieveProfileChangeDataDelta	The input data for the <b>RetrieveProfileChangeDataDelta</b> WSDL operation.
RetrieveProfileChangeDataDeltaResponse	The result data for the <b>RetrieveProfileChangeDataDelta</b> WSDL operation.

#### 3.1.4.6.2.1 RetrieveProfileChangeDataDelta

The input data for the **RetrieveProfileChangeDataDelta** WSDL operation.

```
<xs:element name="RetrieveProfileChangeDataDelta"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
      <xs:element minOccurs="0" maxOccurs="1" name="objectClass" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="propertyList" type="tns:ArrayOfString"/>
      <xs:element minOccurs="0" maxOccurs="1" name="changeToken" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="partitionId"
        xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**importExportId:** importExportId as specified in section [3.1.4.7.2.1](#).

**objectClass:** Refers to the profile type of profile object being synchronized. MUST be set to "User".

**propertyList:** propertyList as specified in section [3.1.4.7.2.1](#).



**changeToken:** **ChangeToken** as specified in [\[MS-USRPCH\]](#) section 2.2.4.3

**pageSize:** The maximum number of records to retrieve from the data source. If the number to total records is more than the **pageSize**, the result set MUST return only the first **pageSize** number of records.

**partitionId:** A GUID used to filter the current request. This value MUST NOT be null or empty. This value limits the change data returned to the data contained in the specified partition (1).

### 3.1.4.6.2.2 RetrieveProfileChangeDataDeltaResponse

The result data for the **RetrieveProfileChangeDataDelta** WSDL operation.

```
<xs:element name="RetrieveProfileChangeDataDeltaResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RetrieveProfileChangeDataDeltaResult"
        type="tns:ProfileChangeDataContainer"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**RetrieveProfileChangeDataDeltaResult:** A **ProfileChangeDataContainer** object, which is an array of **ProfileChangeData** objects.

### 3.1.4.6.3 Complex Types

None.

### 3.1.4.6.4 Simple Types

None.

### 3.1.4.6.5 Attributes

None.

### 3.1.4.6.6 Groups

None.

### 3.1.4.6.7 Attribute Groups

None.

### 3.1.4.7 RetrieveProfileChangeDataFull

This operation MUST return an array of **ProfileChangeData** objects for profiles that have been originally imported from Active Directory or LDAP data sources so that their properties can be synchronized with the connected data sources. This is the complete list of groups and users along with their properties. This call MUST always be done after an **InitializeProfileImportExportProcess** call has been done and a **FinalizeImportExportProcess** call MUST be made sometime before another **InitializeProfileImportExportProcess** call is done.

```

<wsdl:operation name="RetrieveProfileChangeDataFull"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RetrieveProfileChangeDataFullSoapIn"/>
  <wsdl:output message="tns:RetrieveProfileChangeDataFullSoapOut"/>
</wsdl:operation>

```

The protocol client sends a **RetrieveProfileChangeDataFullSoapIn** request message and the protocol server responds with a **RetrieveProfileChangeDataFullSoapOut** response message.

### 3.1.4.7.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
RetrieveProfileChangeDataFullSoapIn	The request WSDL message for the <b>RetrieveProfileChangeDataFull</b> WSDL operation.
RetrieveProfileChangeDataFullSoapOut	The response WSDL message for the <b>RetrieveProfileChangeDataFull</b> WSDL operation.

#### 3.1.4.7.1.1 RetrieveProfileChangeDataFullSoapIn

The request WSDL message for the **RetrieveProfileChangeDataFull** WSDL operation.

The SOAP action value is:

```

http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataFull

```

The SOAP body contains the **RetrieveProfileChangeDataFull** element.

#### 3.1.4.7.1.2 RetrieveProfileChangeDataFullSoapOut

The response WSDL message for the **RetrieveProfileChangeDataFull** WSDL operation.

The SOAP body contains the **RetrieveProfileChangeDataFullResponse** element.

### 3.1.4.7.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
RetrieveProfileChangeDataFull	The input data for the <b>RetrieveProfileChangeDataFull</b> WSDL operation.
RetrieveProfileChangeDataFullResponse	The result data for the <b>RetrieveProfileChangeDataFull</b> WSDL operation.

### 3.1.4.7.2.1 RetrieveProfileChangeDataFull

The input data for the **RetrieveProfileChangeDataFull** WSDL operation.

```
<xs:element name="RetrieveProfileChangeDataFull" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
      <xs:element minOccurs="0" maxOccurs="1" name="objectClass" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="propertyList" type="tns:ArrayOfString"/>
      <xs:element minOccurs="1" maxOccurs="1" name="recordId" type="xs:long"/>
      <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="partitionId"
        xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**importExportId:** importExportId identifies the synchronization run context. A new importExportId is generated each time **InitializeProfileImportExportProcess** (section 3.1.4.4) is called. The importExportId remains constant between InitializeProfileImportExportProcess and FinalizeProfileImportExportProcess for a given synchronization run.

**objectClass:** objectClass refers to the profile type of profile object being synchronized. The object classes MUST be one of "user", "group" and "contact".

**propertyList:** **propertyList** is an array of the names of properties for each profile to be retrieved from the user profile store. These MUST be one or more of the pre-defined Profile properties (such as Display Name, First Name, and Last Name) or custom properties. The method MUST return the **distinguished name** ('dn') property even if it is not in the **propertyList**. The method returns the profile properties that are as specified in the **propertyList** array.

**recordId:** recordId as specified in [MS-UIESP] section 2.2.5.3. The **recordId** supplied MUST be the starting record Id from where to start the retrieving for the data.

**pageSize:** The maximum number of records to retrieve from the data source. If the number to total records is more than the pageSize, the result set MUST return only the first **pageSize** number of records.

**partitionId:** A GUID used to filter the current request. This value MUST NOT be null or empty. This value limits the change data returned to the data contained in the specified partition (1).

### 3.1.4.7.2.2 RetrieveProfileChangeDataFullResponse

The result data for the **RetrieveProfileChangeDataFull** WSDL operation.

```
<xs:element name="RetrieveProfileChangeDataFullResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RetrieveProfileChangeDataFullResult"
        type="tns:ProfileChangeDataContainer"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**RetrieveProfileChangeDataFullResult:** A **ProfileChangeDataContainer** object, which is an array of **ProfileChangeData** objects.

### 3.1.4.7.3 Complex Types

None.

### 3.1.4.7.4 Simple Types

None.

### 3.1.4.7.5 Attributes

None.

### 3.1.4.7.6 Groups

None.

### 3.1.4.7.7 Attribute Groups

None.

### 3.1.4.8 UpdateWithProfileChangeData

This operation updates the user profile store with changes for the connected data sources. This is the list of groups and users along with their properties that have changed since the last call.

```
<wsdl:operation name="UpdateWithProfileChangeData"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:UpdateWithProfileChangeDataSoapIn"/>
  <wsdl:output message="tns:UpdateWithProfileChangeDataSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **UpdateWithProfileChangeDataSoapIn** request message and the protocol server responds with a **UpdateWithProfileChangeDataSoapOut** response message.

This method is called by the synchronization process to export data to the user profile store after it has built a list of changes from the connected data sources that will need to be synchronized.

#### 3.1.4.8.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
UpdateWithProfileChangeDataSoapIn	The request WSDL message for the <b>UpdateWithProfileChangeData</b> WSDL operation.
UpdateWithProfileChangeDataSoapOut	The response WSDL message for the <b>UpdateWithProfileChangeData</b> WSDL operation.

### 3.1.4.8.1.1 UpdateWithProfileChangeDataSoapIn

The request WSDL message for the **UpdateWithProfileChangeData** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/UpdateWithProfileChangeData
```

The SOAP body contains the **UpdateWithProfileChangeData** element.

### 3.1.4.8.1.2 UpdateWithProfileChangeDataSoapOut

The response WSDL message for the **UpdateWithProfileChangeData** WSDL operation.

The SOAP body contains the **UpdateWithProfileChangeDataResponse** element.

### 3.1.4.8.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
UpdateWithProfileChangeData	The input data for the <b>UpdateWithProfileChangeData</b> WSDL operation.
UpdateWithProfileChangeDataResponse	The result data for the <b>UpdateWithProfileChangeData</b> WSDL operation.

#### 3.1.4.8.2.1 UpdateWithProfileChangeData

The input data for the **UpdateWithProfileChangeData** WSDL operation.

```
<xs:element name="UpdateWithProfileChangeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
      <xs:element minOccurs="0" maxOccurs="1" name="profileChangeData"
type="tns:ArrayOfProfileChangeData"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**importExportId:** importExportId as specified in section [3.1.4.7.2.1](#).

**profileChangeData:** An array of **ProfileChangeData** objects. This array identifies the profile that need to be added, updated or deleted from the user profile store.

#### 3.1.4.8.2.2 UpdateWithProfileChangeDataResponse

The result data for the **UpdateWithProfileChangeData** WSDL operation.

```

<xs:element name="UpdateWithProfileChangeDataResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="UpdateWithProfileChangeDataResult"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**UpdateWithProfileChangeDataResult:** A Boolean that indicates if any changes were applied to the user profile store. A true return means that the changes were successfully applied.

### 3.1.4.8.3 Complex Types

None.

### 3.1.4.8.4 Simple Types

None.

### 3.1.4.8.5 Attributes

None.

### 3.1.4.8.6 Groups

None.

### 3.1.4.8.7 Attribute Groups

None.

### 3.1.4.9 GetProfileImportClientMode

This method retrieves the Profile Import mode for the associated User Profile Application. [<2>](#)

```

<wsdl:operation name="GetProfileImportClientMode"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetProfileImportClientModeSoapIn"/>
  <wsdl:output message="tns:GetProfileImportClientModeSoapOut"/>
</wsdl:operation>

```

This method is used to determine the Profile Import client engine being used by the User Profile Application. The return value is a string that is used to determine the Import Engine being used to import profile data into the user profile store.

#### 3.1.4.9.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetProfileImportClientModeSoapIn	The request WSDL message for the <b>GetProfileImportClientMode</b> WSDL operation.
GetProfileImportClientModeSoapOut	The response WSDL message for the <b>GetProfileImportClientMode</b> WSDL operation.

### 3.1.4.9.1.1 GetProfileImportClientModeSoapIn

The request WSDL message for the **GetProfileImportClientMode** WSDL operation.

The SOAP action value is:

```
http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetProfileImportClientMode
```

The SOAP body contains the **GetProfileImportClientMode** element.

### 3.1.4.9.1.2 GetProfileImportClientModeSoapOut

The response WSDL message for the **GetProfileImportClientMode** WSDL operation.

The SOAP body contains the **GetProfileImportClientModeResponse** element.

### 3.1.4.9.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
GetProfileImportClientMode	The input data for the <b>GetProfileImportClientMode</b> WSDL operation.
GetProfileImportClientModeResponse	The result data for the <b>GetProfileImportClientMode</b> WSDL operation.

#### 3.1.4.9.2.1 GetProfileImportClientMode

The input data for the **GetProfileImportClientMode** WSDL operation.

```
<xs:element name="GetProfileImportClientMode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

#### 3.1.4.9.2.2 GetProfileImportClientModeResponse

The result data for the **GetProfileImportClientMode** WSDL operation.

```
<xs:element name="GetProfileImportClientModeResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

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

**GetProfileImportClientModeResult:** The return value is a string that determines that is used to determine the Import Engine being used to import profile data into the user profile store. If FIM is being used for Profile Import it returns "profileImportModeFIM". If Active Directory Import is being used it returns "profileImportModeADImport". If an external engine is used it will return "profileImportModeExternalFIM".

#### **3.1.4.9.3 Complex Types**

None.

#### **3.1.4.9.4 Simple Types**

None.

#### **3.1.4.9.5 Attributes**

None.

#### **3.1.4.9.6 Groups**

None.

#### **3.1.4.9.7 Attribute Groups**

None.

#### **3.1.5 Timer Events**

None.

#### **3.1.6 Other Local Events**

None.



## 4 Protocol Examples

In this example, a protocol client uses the protocol to export user profiles from the user profile store. The protocol client then lists them, changes the value of the "LastName" property for the profile "MGR2" and import the user profiles back to the profile store. It finally re-exports the user profiles to confirm the successful change.

### 4.1 Sample Data

There are three users in Domain as follows:

Properties	Profile1	Profile2	Profile3
PreferredName	LDAP::MGR1	LDAP::MGR2	LDAP::MGR3
FirstName	Manager 1	Manager 2	Manager 3
LastName	LastName Manager1	LastName Manager2	LastName Manager3
SPS-DistinguishedName	uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com	uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com	uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com
UserName	MGR1	MGR2	MGR3

### 4.2 Operation Sequence

The protocol client executes the operation in the sequence 4.2.1 to 4.2.6 to export user profiles from the user profile store, change the value of the "LastName" property for the profile "MGR2" and import the user profiles back to the profile store and finally to re-export the user profiles to confirm the successful change.

#### 4.2.1 Initialize the Process

The protocol client calls the **InitializeProfileImportExportProcess** operation to initialize and get the import export identifier which is used in subsequent operations. The protocol client sends the following request:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><InitializeProfileImportExportProcess
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"
/></soap:Body></soap:Envelope>
```

On successful completion, the protocol server returns the following response:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><InitializeProfileImportExportProcess
Response
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><I
nitializeProfileImportExportProcessResult>14</InitializeProfileImportExportProcessResult></In
itializeProfileImportExportProcessResponse></soap:Body></soap:Envelope>

```

This protocol client extracts the import export process identifier14 from the WSDL message to be used in subsequent creation of WSDL messages.

#### 4.2.2 Get the Partition Identifier

The protocol client calls the **GetPartitionIds** operation to get the partition (1) identifier, which is used in subsequent operations. The protocol client sends the following request:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><GetPartitionIds
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"
/></soap:Body></soap:Envelope>

```

On successful completion, the protocol server returns the following response:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><GetPartitionIdsResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><G
etPartitionIdsResult><guid>0c37852b-34d0-418e-91c6-
2ac25af4be5b</guid></GetPartitionIdsResult></GetPartitionIdsResponse></soap:Body></soap:Envel
ope>

```

The protocol client extracts the partition (1) identifiers from the response, to be used in construction of subsequent WSDL messages.

#### 4.2.3 Retrieve the Profiles

The protocol client calls the **RetrieveProfileChangeDataFull** operation to get all the profile. The protocol client constructs the following WSDL message using the extracted values for importExportId and partition (1) identifier from previous operation calls.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><RetrieveProfileChangeDataFull
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><i
mportExportId>14</importExportId><objectClass>user</objectClass><propertyList><string>Preferr
edName</string><string>ADGuid</string><string>SPS-
DistinguishedName</string><string>SID</string><string>LastName</string><string>FirstName</st
ring><string>UserName</string><string>AccountName</string></propertyList><recordId>1</recordI
d><pageSize>100</pageSize><partitionId>0c37852b-34d0-418e-91c6-
2ac25af4be5b</partitionId></RetrieveProfileChangeDataFull></soap:Body></soap:Envelope>

```

On successful completion, the protocol server returns the following WSDL message.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>

```

```

    <RetrieveProfileChangeDataFullResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService">
    <RetrieveProfileChangeDataFullResult>
    <ProfileChangeData>
    <ProfileChangeData>

<DistinguishedName>uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</Dist
inguishedName>
    <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
    <ObjectClass>user</ObjectClass>
    <PropertyChanges>
    <PropertyChangeData>
    <Name>Firstname</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType xsi:type="xsd:string">Manager 1</anyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData>
    <Name>SID</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType
xsi:type="xsd:base64Binary">AQUAAAAAAAAUAAAAoGXPfnhLml/nfIdw6iooAA==</anyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData >
    <Name>UserName</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType xsi:type="xsd:string">MGR1</anyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData>
    <Name>PreferredName</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType xsi:type="xsd:string">LDAP::MGR1</anyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData>
    <Name>dn</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType
xsi:type="xsd:string">uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData>
    <Name>SPS-DistinguishedName</Name>
    <ChangeType>Add</ChangeType>
    <Values>
    <anyType
xsi:type="xsd:string">uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
    </Values>
    </PropertyChangeData>
    <PropertyChangeData>

```

```

        <Name>LastName</Name>
        <ChangeType>Add</ChangeType>
        <Values>
          <anyType xsi:type="xsd:string">LastName Manager1</anyType>
        </Values>
      </PropertyChangeData>
    </PropertyChangeData>
    <Name>ADGuid</Name>
    <ChangeType>Add</ChangeType>
    <Values>
      <anyType xsi:type="xsd:base64Binary">AhuBersqt06TyK1TGDwHHQ==</anyType>
    </Values>
  </PropertyChangeData>
</PropertyChanges>
<ChangeType>Add</ChangeType>
</ProfileChangeData>
<ProfileChangeData>
  <DistinguishedName>uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</DistinguishedName>
  <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
  <ObjectClass>user</ObjectClass>
  <PropertyChanges>
    <PropertyChangeData>
      <Name>FirstName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">Manager 2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SID</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:base64Binary">AQUAAAAAAAAUAAAAoGXPfnhLm1/nfIdwGD50AA==</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>UserName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">MGR2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>PreferredName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">LDAP::MGR2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:string">uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</anyType>
      </Values>
  </PropertyChanges>

```

```

        </Values>
    </PropertyChangeData>
    <PropertyChangeData>
        <Name>SPS-DistinguishedName</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType
xsi:type="xsd:string">uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
            </Values>
        </PropertyChangeData>
    <PropertyChangeData>
        <Name>LastName</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType xsi:type="xsd:string">LastName Manager2</anyType>
        </Values>
    </PropertyChangeData>
    <PropertyChangeData>
        <Name>ADGuid</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType xsi:type="xsd:base64Binary">mwvDn7xr8ESvMig0miA4qA==</anyType>
        </Values>
    </PropertyChangeData>
</PropertyChanges>
<ChangeType>Add</ChangeType>
</ProfileChangeData>
<ProfileChangeData>
    <DistinguishedName>
uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com </DistinguishedName>
    <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
    <ObjectClass>user</ObjectClass>
    <PropertyChanges>
        <PropertyChangeData>
            <Name>FirstName</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType xsi:type="xsd:string">Manager 3</anyType>
            </Values>
        </PropertyChangeData>
        <PropertyChangeData>
            <Name>SID</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType
xsi:type="xsd:base64Binary">AQUAAAAAAAAUVAAAAoGXPfnhLm1/nfIdw039LAA==</anyType>
            </Values>
        </PropertyChangeData>
        <PropertyChangeData>
            <Name>UserName</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType xsi:type="xsd:string">MGR3</anyType>
            </Values>
        </PropertyChangeData>
        <PropertyChangeData>
            <Name>PreferredName</Name>

```

```

        <ChangeType>Add</ChangeType>
        <Values>
          <anyType xsi:type="xsd:string">LDAP::MGR3</anyType>
        </Values>
      </PropertyChangeData>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:string">uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
        </Values>
      </PropertyChangeData>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:string">uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
        </Values>
      </PropertyChangeData>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>LastName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">LastName Manager3</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>ADGuid</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:base64Binary">3AAG32anf0usUZfnP6/EhQ==</anyType>
      </Values>
    </PropertyChangeData>
  </PropertyChanges>
  <ChangeType>Add</ChangeType>
</ProfileChangeData>
</ProfileChangeData>
<LastId>3</LastId>
<LastChangeToken />
</RetrieveProfileChangeDataFullResult>
</RetrieveProfileChangeDataFullResponse>
</soap:Body>
</soap:Envelope>

```

#### 4.2.4 Update a Profile

The protocol client calls the **UpdateWithProfileChangeData** operation to update a profile. The protocol client constructs the following WSDL message using the extracted values from previous operation calls.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>

```

```

    <UpdateWithProfileChangeData
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService">
    <importExportId>14</importExportId>
    <profileChangeData>
    <ProfileChangeData>
    <ProfileIdentifier>LDAP::MGR2</ProfileIdentifier>

<DistinguishedName>uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</DistinguishedName>
    <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
    <ObjectClass>user</ObjectClass>
    <PropertyChanges>
    <PropertyChangeData>
    <Name>LastName</Name>
    <ChangeType>Modify</ChangeType>
    <Values>
    <anyType xsi:type="xsd:string">Edited</anyType>
    </Values>
    </PropertyChangeData>
    </PropertyChanges>
    <ChangeType>Modify</ChangeType>
    </ProfileChangeData>
    </profileChangeData>
    </UpdateWithProfileChangeData>
    </soap:Body>
</soap:Envelope>

```

On successful completion, the protocol server returns the following WSDL message.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><UpdateWithProfileChangeDataResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><UpdateWithProfileChangeDataResult>true</UpdateWithProfileChangeDataResult></UpdateWithProfileChangeDataResponse></soap:Body></soap:Envelope>

```

#### 4.2.5 Verify the Change

The protocol client calls the **RetrieveProfileChangeDataFull** operation to get all the profiles. The protocol client constructs the following WSDL message using the extracted values from previous operation calls.

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><RetrieveProfileChangeDataFull
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><importExportId>14</importExportId><objectClass>user</objectClass><propertyList><string>PreferredName</string><string>ADGuid</string><string>SPS-DistinguishedName</string><string>SID</string><string>LastName</string><string>FirstName</string><string>UserName</string><string>AccountName</string></propertyList><recordId>1</recordId><pageSize>100</pageSize><partitionId>0c37852b-34d0-418e-91c6-2ac25af4be5b</partitionId></RetrieveProfileChangeDataFull></soap:Body></soap:Envelope>

```

On successful completion, the protocol server returns the following WSDL message:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RetrieveProfileChangeDataFullResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService">
      <RetrieveProfileChangeDataFullResult>
        <ProfileChangeData>
          <ProfileChangeData>
            <DistinguishedName>uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</DistinguishedName>
            <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
            <ObjectClass>user</ObjectClass>
            <PropertyChanges>
              <PropertyChangeData>
                <Name>Firstname</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType xsi:type="xsd:string">Manager 1</anyType>
                </Values>
              </PropertyChangeData>
              <PropertyChangeData>
                <Name>SID</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType
xsi:type="xsd:base64Binary">AQUAAAAAAAAUAAAAoGXPfnhLml/nfIdw6iooAA==</anyType>
                </Values>
              </PropertyChangeData>
              <PropertyChangeData >
                <Name>UserName</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType xsi:type="xsd:string">MGR1</anyType>
                </Values>
              </PropertyChangeData>
              <PropertyChangeData>
                <Name>PreferredName</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType xsi:type="xsd:string">LDAP::MGR1</anyType>
                </Values>
              </PropertyChangeData>
              <PropertyChangeData>
                <Name>dn</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType
xsi:type="xsd:string">uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</anyType>
                </Values>
              </PropertyChangeData>
              <PropertyChangeData>
                <Name>SPS-DistinguishedName</Name>
                <ChangeType>Add</ChangeType>
                <Values>
                  <anyType
xsi:type="xsd:string">uid=MGR1,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</anyType>
                </Values>
            </PropertyChanges>
          </ProfileChangeData>
        </ProfileChangeData>
      </RetrieveProfileChangeDataFullResult>
    </RetrieveProfileChangeDataFullResponse>
  </soap:Body>
</soap:Envelope>

```



```

    </Values>
  </PropertyChangeData>
  <PropertyChangeData>
    <Name>LastName</Name>
    <ChangeType>Add</ChangeType>
    <Values>
      <anyType xsi:type="xsd:string">LastName Manager1</anyType>
    </Values>
  </PropertyChangeData>
  <PropertyChangeData>
    <Name>ADGuid</Name>
    <ChangeType>Add</ChangeType>
    <Values>
      <anyType xsi:type="xsd:base64Binary">AhuBersqt06TyK1TGDwHHQ==</anyType>
    </Values>
  </PropertyChangeData>
</PropertyChanges>
<ChangeType>Add</ChangeType>
</ProfileChangeData>
<ProfileChangeData>

<DistinguishedName>uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</DistinguishedName>
  <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
  <ObjectClass>user</ObjectClass>
  <PropertyChanges>
    <PropertyChangeData>
      <Name>FirstName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">Manager 2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SID</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:base64Binary">AQUAAAAAAAAUVAASoGXPfnhLm1/nfIdwGD5OAA==</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>UserName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">MGR2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>PreferredName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">LDAP::MGR2</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>

```

```

        <anyType
xsi:type="xsd:string">uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
        </Values>
    </PropertyChangeData>
    <PropertyChangeData>
        <Name>SPS-DistinguishedName</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType
xsi:type="xsd:string">uid=MGR2,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
            </Values>
        </PropertyChangeData>
    </PropertyChangeData>
    <PropertyChangeData>
        <Name>LastName</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType xsi:type="xsd:string">Edited</anyType>
            </Values>
        </PropertyChangeData>
    </PropertyChangeData>
    <PropertyChangeData>
        <Name>ADGuid</Name>
        <ChangeType>Add</ChangeType>
        <Values>
            <anyType xsi:type="xsd:base64Binary">mwvDn7xr8ESvMig0miA4qA==</anyType>
            </Values>
        </PropertyChangeData>
    </PropertyChanges>
    <ChangeType>Add</ChangeType>
</ProfileChangeData>
<ProfileChangeData>
    <DistinguishedName>
uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com </DistinguishedName>
    <ObjectGuid>00000000-0000-0000-0000-000000000000</ObjectGuid>
    <ObjectClass>user</ObjectClass>
    <PropertyChanges>
        <PropertyChangeData>
            <Name>FirstName</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType xsi:type="xsd:string">Manager 3</anyType>
                </Values>
            </PropertyChangeData>
        <PropertyChangeData>
            <Name>SID</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType
xsi:type="xsd:base64Binary">AQUAAAAAAAAUVAAAAoGXPfnhLm1/nfIdw039LAA==</anyType>
                </Values>
            </PropertyChangeData>
        <PropertyChangeData>
            <Name>UserName</Name>
            <ChangeType>Add</ChangeType>
            <Values>
                <anyType xsi:type="xsd:string">MGR3</anyType>
                </Values>
            </PropertyChangeData>
    </PropertyChanges>

```

```

    <PropertyChangeData>
      <Name>PreferredName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">LDAP::MGR3</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:string">uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
        </Values>
      </PropertyChangeData>
    <PropertyChangeData>
      <Name>SPS-DistinguishedName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType
xsi:type="xsd:string">uid=MGR3,ou=FewUsersOU,dc=DomainName,dc=extest,dc=CompanyName,dc=com</a
nyType>
        </Values>
      </PropertyChangeData>
    <PropertyChangeData>
      <Name>LastName</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:string">LastName Manager3</anyType>
      </Values>
    </PropertyChangeData>
    <PropertyChangeData>
      <Name>ADGuid</Name>
      <ChangeType>Add</ChangeType>
      <Values>
        <anyType xsi:type="xsd:base64Binary">3AAG32anf0usUZfnP6/EhQ==</anyType>
      </Values>
    </PropertyChangeData>
  </PropertyChanges>
  <ChangeType>Add</ChangeType>
</ProfileChangeData>
</ProfileChangeData>
<LastId>3</LastId>
<LastChangeToken />
</RetrieveProfileChangeDataFullResult>
</RetrieveProfileChangeDataFullResponse>
</soap:Body>
</soap:Envelope>

```

#### 4.2.6 Finalize the Import and Export Process

The protocol client calls the **FinalizeProfileImportExportProcess** operation to complete the process. The protocol client constructs the following WSDL message using the extracted values from previous operation calls.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><FinalizeProfileImportExportProcess
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"><i
mportExportId>14</importExportId></FinalizeProfileImportExportProcess></soap:Body></soap:Enve
lope>
```

On successful completion, the protocol server returns the following response.

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><soap:Body><FinalizeProfileImportExportProcessRe
sponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"
/></soap:Body></soap:Envelope>
```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

Preliminary

## 6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0"?>
<wsdl:definitions
  xmlns:tns="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:s1="http://microsoft.com/wsdl/types/"
  xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
      targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService">
      <xs:import namespace="http://microsoft.com/wsdl/types/" />
      <xs:element name="InitializeProfileImportExportProcess">
        <xs:complexType/>
      </xs:element>
      <xs:element name="InitializeProfileImportExportProcessResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1"
              name="InitializeProfileImportExportProcessResult" type="xs:long" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FinalizeProfileImportExportProcess">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FinalizeProfileImportExportProcessResponse">
        <xs:complexType/>
      </xs:element>
      <xs:element name="GetProfileImportClientMode">
        <xs:complexType/>
      </xs:element>
      <xs:element name="GetProfileImportClientModeResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="GetProfileImportClientModeResult"
              type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetPartitionIds">
        <xs:complexType/>
      </xs:element>
      <xs:element name="GetPartitionIdsResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetPartitionIdsResult"
              type="tns:ArrayOfGuid" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>
  </wsdl:types>
</wsdl:definitions>
```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="ArrayOfGuid">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="s1:guid"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="GetImportProperties">
    <xs:complexType/>
</xs:element>
<xs:element name="GetImportPropertiesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetImportPropertiesResult"
type="tns:ArrayOfImportExportProperties"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="ArrayOfImportExportProperties">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ImportExportProperties"
nillable="true" type="tns:ImportExportProperties"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ImportExportProperties">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="TypeName" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="Properties"
type="tns:ArrayOfString"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="RetrieveProfileChangeDataFull">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
            <xs:element minOccurs="0" maxOccurs="1" name="objectClass" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="propertyList"
type="tns:ArrayOfString"/>
            <xs:element minOccurs="1" maxOccurs="1" name="recordId" type="xs:long"/>
            <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
            <xs:element minOccurs="1" maxOccurs="1" name="partitionId" type="s1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<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="RetrieveProfileChangeDataFullResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1"
name="RetrieveProfileChangeDataFullResult" type="tns:ProfileChangeDataContainer"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

<xs:complexType name="ProfileChangeDataContainer">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ProfileChangeData"
type="tns:ArrayOfProfileChangeData"/>
    <xs:element minOccurs="1" maxOccurs="1" name="LastId" type="xs:long"/>
    <xs:element minOccurs="0" maxOccurs="1" name="LastChangeToken" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfProfileChangeData">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ProfileChangeData"
nillable="true" type="tns:ProfileChangeData"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ProfileChangeData">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ProfileIdentifier" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DistinguishedName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ObjectGuid" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ObjectClass" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="PropertyChanges"
type="tns:ArrayOfPropertyChangeData"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ChangeType" type="tns:ChangeTypes"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfPropertyChangeData">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PropertyChangeData"
nillable="true" type="tns:PropertyChangeData"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="PropertyChangeData">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ChangeType" type="tns:ChangeTypes"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Values" type="tns:ArrayOfAnyType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfAnyType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="ChangeTypes">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Add"/>
        <xs:enumeration value="Modify"/>
        <xs:enumeration value="Delete"/>
        <xs:enumeration value="Metadata"/>
        <xs:enumeration value="All"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="RetrieveProfileChangeDataDelta">
  <xs:complexType>

```



```

    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
      <xs:element minOccurs="0" maxOccurs="1" name="objectClass" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="propertyList"
type="tns:ArrayOfString"/>
      <xs:element minOccurs="0" maxOccurs="1" name="changeToken" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="partitionId" type="sl:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RetrieveProfileChangeDataDeltaResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1"
name="RetrieveProfileChangeDataDeltaResult" type="tns:ProfileChangeDataContainer"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RetrieveBDCProfileChangeData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="instanceName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="entityNameSpace" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="entityName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="filterName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="mossJoinAttribute"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="bdcJoinAttribute"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="propertyList"
type="tns:ArrayOfString"/>
      <xs:element minOccurs="1" maxOccurs="1" name="recordId" type="xs:long"/>
      <xs:element minOccurs="1" maxOccurs="1" name="pageSize" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="partitionId" type="sl:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RetrieveBDCProfileChangeDataResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RetrieveBDCProfileChangeDataResult"
type="tns:ProfileChangeDataContainer"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateWithProfileChangeData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="importExportId" type="xs:long"/>
      <xs:element minOccurs="0" maxOccurs="1" name="profileChangeData"
type="tns:ArrayOfProfileChangeData"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateWithProfileChangeDataResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="UpdateWithProfileChangeDataResult"
type="xs:boolean"/>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://microsoft.com/wsdl/types/">
    <xs:simpleType name="guid">
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-
9a-fA-F]{12}"/>
        </xs:restriction>
    </xs:simpleType>
</xs:schema>
</wsdl:types>
<wsdl:message name="InitializeProfileImportExportProcessSoapIn">
    <wsdl:part name="parameters" element="tns:InitializeProfileImportExportProcess"/>
</wsdl:message>
<wsdl:message name="InitializeProfileImportExportProcessSoapOut">
    <wsdl:part name="parameters" element="tns:InitializeProfileImportExportProcessResponse"/>
</wsdl:message>
<wsdl:message name="FinalizeProfileImportExportProcessSoapIn">
    <wsdl:part name="parameters" element="tns:FinalizeProfileImportExportProcess"/>
</wsdl:message>
<wsdl:message name="FinalizeProfileImportExportProcessSoapOut">
    <wsdl:part name="parameters" element="tns:FinalizeProfileImportExportProcessResponse"/>
</wsdl:message>
<wsdl:message name="GetProfileImportClientModeSoapIn">
    <wsdl:part name="parameters" element="tns:GetProfileImportClientMode"/>
</wsdl:message>
<wsdl:message name="GetProfileImportClientModeSoapOut">
    <wsdl:part name="parameters" element="tns:GetProfileImportClientModeResponse"/>
</wsdl:message>
<wsdl:message name="GetPartitionIdsSoapIn">
    <wsdl:part name="parameters" element="tns:GetPartitionIds"/>
</wsdl:message>
<wsdl:message name="GetPartitionIdsSoapOut">
    <wsdl:part name="parameters" element="tns:GetPartitionIdsResponse"/>
</wsdl:message>
<wsdl:message name="GetImportPropertiesSoapIn">
    <wsdl:part name="parameters" element="tns:GetImportProperties"/>
</wsdl:message>
<wsdl:message name="GetImportPropertiesSoapOut">
    <wsdl:part name="parameters" element="tns:GetImportPropertiesResponse"/>
</wsdl:message>
<wsdl:message name="RetrieveProfileChangeDataFullSoapIn">
    <wsdl:part name="parameters" element="tns:RetrieveProfileChangeDataFull"/>
</wsdl:message>
<wsdl:message name="RetrieveProfileChangeDataFullSoapOut">
    <wsdl:part name="parameters" element="tns:RetrieveProfileChangeDataFullResponse"/>
</wsdl:message>
<wsdl:message name="RetrieveProfileChangeDataDeltaSoapIn">
    <wsdl:part name="parameters" element="tns:RetrieveProfileChangeDataDelta"/>
</wsdl:message>
<wsdl:message name="RetrieveProfileChangeDataDeltaSoapOut">
    <wsdl:part name="parameters" element="tns:RetrieveProfileChangeDataDeltaResponse"/>
</wsdl:message>
<wsdl:message name="RetrieveBDCProfileChangeDataSoapIn">
    <wsdl:part name="parameters" element="tns:RetrieveBDCProfileChangeData"/>
</wsdl:message>

```

```

<wsdl:message name="RetrieveBDCProfileChangeDataSoapOut">
  <wsdl:part name="parameters" element="tns:RetrieveBDCProfileChangeDataResponse"/>
</wsdl:message>
<wsdl:message name="UpdateWithProfileChangeDataSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateWithProfileChangeData"/>
</wsdl:message>
<wsdl:message name="UpdateWithProfileChangeDataSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateWithProfileChangeDataResponse"/>
</wsdl:message>
<wsdl:portType name="ProfileImportExportServiceSoap">
  <wsdl:operation name="InitializeProfileImportExportProcess">
    <wsdl:input message="tns:InitializeProfileImportExportProcessSoapIn"/>
    <wsdl:output message="tns:InitializeProfileImportExportProcessSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="FinalizeProfileImportExportProcess">
    <wsdl:input message="tns:FinalizeProfileImportExportProcessSoapIn"/>
    <wsdl:output message="tns:FinalizeProfileImportExportProcessSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetProfileImportClientMode">
    <wsdl:input message="tns:GetProfileImportClientModeSoapIn"/>
    <wsdl:output message="tns:GetProfileImportClientModeSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetPartitionIds">
    <wsdl:input message="tns:GetPartitionIdsSoapIn"/>
    <wsdl:output message="tns:GetPartitionIdsSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetImportProperties">
    <wsdl:input message="tns:GetImportPropertiesSoapIn"/>
    <wsdl:output message="tns:GetImportPropertiesSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="RetrieveProfileChangeDataFull">
    <wsdl:input message="tns:RetrieveProfileChangeDataFullSoapIn"/>
    <wsdl:output message="tns:RetrieveProfileChangeDataFullSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="RetrieveProfileChangeDataDelta">
    <wsdl:input message="tns:RetrieveProfileChangeDataDeltaSoapIn"/>
    <wsdl:output message="tns:RetrieveProfileChangeDataDeltaSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="RetrieveBDCProfileChangeData">
    <wsdl:input message="tns:RetrieveBDCProfileChangeDataSoapIn"/>
    <wsdl:output message="tns:RetrieveBDCProfileChangeDataSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="UpdateWithProfileChangeData">
    <wsdl:input message="tns:UpdateWithProfileChangeDataSoapIn"/>
    <wsdl:output message="tns:UpdateWithProfileChangeDataSoapOut"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ProfileImportExportServiceSoap"
type="tns:ProfileImportExportServiceSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="InitializeProfileImportExportProcess">
    <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/InitializeProfileImportExportProcess" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>

```

```

    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="FinalizeProfileImportExportProcess">
    <soap:operation
      soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/FinalizeProfileImportExportProcess" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetProfileImportClientMode">
    <soap:operation
      soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetProfileImportClientMode" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetPartitionIds">
    <soap:operation
      soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetPartitionIds" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetImportProperties">
    <soap:operation
      soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetImportProperties" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RetrieveProfileChangeDataFull">
    <soap:operation
      soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataFull" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RetrieveProfileChangeDataDelta">

```

```

    <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataDelta" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RetrieveBDCProfileChangeData">
    <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveBDCProfileChangeData" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="UpdateWithProfileChangeData">
    <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/UpdateWithProfileChangeData" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="ProfileImportExportServiceSoap12"
type="tns:ProfileImportExportServiceSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="InitializeProfileImportExportProcess">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/InitializeProfileImportExportProcess" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="FinalizeProfileImportExportProcess">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/FinalizeProfileImportExportProcess" style="document"/>
        <wsdl:input>
            <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetProfileImportClientMode">

```

```

    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetProfileImportClientMode" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetPartitionIds">
    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetPartitionIds" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetImportProperties">
    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/GetImportProperties" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RetrieveProfileChangeDataFull">
    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataFull" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RetrieveProfileChangeDataDelta">
    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveProfileChangeDataDelta" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RetrieveBDCProfileChangeData">
    <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/RetrieveBDCProfileChangeData" style="document"/>
    <wsdl:input>
        <soap12:body use="literal"/>

```

```
</wsdl:input>
<wsdl:output>
  <soap12:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="UpdateWithProfileChangeData">
  <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/ProfileImportExportService/UpdateWithProfileChangeData" style="document"/>
  <wsdl:input>
    <soap12:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

## 7 Appendix B: Product Behavior

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

- Microsoft® SharePoint® Server 2010
- Microsoft® SharePoint® Server 15 Technical Preview

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 3.1.4:](#) This operation is available only in SharePoint Server 15 Technical Preview.

[<2> Section 3.1.4.9:](#) This operation is available only in SharePoint Server 15 Technical Preview.



## 8 Change Tracking

This section identifies changes that were made to the [MS-UPIEWS] protocol document between the June 2011 and January 2012 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.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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 language and 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 or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

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.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- 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 [protocol@microsoft.com](mailto:protocol@microsoft.com).

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">1.1 Glossary</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">2.1 Transport</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">2.2.1 Namespaces</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">2.2.4 Complex Types</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">2.2.4.1 ArrayOfAnyType</a>	Added content for Office 15 Technical Preview.	N	Content updated.
<a href="#">2.2.4.3 ArrayOfPropertyChangeData</a>	Clarified that the name of this complex type is "ArrayOfPropertyChangeData".	Y	Content updated.
<a href="#">2.2.4.5 ProfileChangeData</a>	Removed content for Office 15 Technical Preview.	N	Content removed.
<a href="#">2.2.4.6 ProfileChangeDataContainer</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">2.2.5.1 ChangeTypes</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4 Message Processing Events and</a>	Added content for Office 15 Technical Preview.	Y	New product behavior

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">Sequencing Rules</a>			note added.
<a href="#">3.1.4.3.3.1 ArrayOfGuid</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">3.1.4.5.2.1 RetrieveBDCProfileChangeData</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">3.1.4.6.2.1 RetrieveProfileChangeDataDelta</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">3.1.4.7.2.1 RetrieveProfileChangeDataFull</a>	Updated content for Office 15 Technical Preview.	N	Content updated.
<a href="#">3.1.4.9 GetProfileImportClientMode</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4.9 GetProfileImportClientMode</a>	Added content for Office 15 Technical Preview.	Y	New product behavior note added.
<a href="#">3.1.4.9.1 Messages</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4.9.1.1 GetProfileImportClientModeSoapIn</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4.9.1.2 GetProfileImportClientModeSoapOut</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4.9.2.1 GetProfileImportClientMode</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">3.1.4.9.2.2 GetProfileImportClientModeResponse</a>	Added content for Office 15 Technical Preview.	N	New content added.
<a href="#">6 Appendix A: Full WSDL</a>	Added content for Office 15 Technical Preview.	N	Content updated.
	Updated list of applicable products for Office 15 Technical Preview.	Y	Content updated.

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