[MS-UPFCWS]:

User Activity Feed Cache Web Service Protocol

Revision Summary

Date	Revision History	Revision Class	Comments
1/20/2012	0.1	New	Released new document.
4/11/2012	0.1	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	0.1	None	No changes to the meaning, language, or formatting of the technical content.
9/12/2012	0.1	None	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	1.0	Major	Significantly changed the technical content.
2/11/2013	1.1	Minor	Clarified the meaning of the technical content.
7/30/2013	1.1	None	No changes to the meaning, language, or formatting of the technical content.
11/18/2013	1.1	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	1.1	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	1.2	Minor	Clarified the meaning of the technical content.
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2/26/2016	2.0	Major	Significantly changed the technical content.
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9/14/2016	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/24/2018	3.0	Major	Significantly changed the technical content.
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7/20/2021	6.0	Major	Significantly changed the technical content.
10/5/2021	7.0	Major	Significantly changed the technical content.

Table of Contents

1 Introduction

The User Activity Feed Cache Web Service Protocol enables protocol clients to store and retrieve data related to social feed posts and feed metadata in an in-memory cache on a protocol server.

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

1.1 Glossary

This document uses the following terms:

application server: A computer that provides infrastructure and services for applications that are hosted on a server farm.

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

datetime: A data type that represents the date and time when a document can be normalized and indexed as a numeric value by a search application. The range and degree of granularity varies according to search application and implementation.

document: An object in a content database such as a file, folder, **list**, or site. Each object is identified by a **URI**.

email address: A string that identifies a user and enables the user to receive Internet messages.

endpoint: A communication port that is exposed by an **application server** for a specific shared service and to which messages can be addressed.

feed entity: An object that represents anything that can have a feed, such as a user, a document, or a site.

feed entry: The data contained in a posting to a feed.

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

Hypertext Transfer Protocol (HTTP): An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

Hypertext Transfer Protocol Secure (HTTPS): An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [SSL3] and [RFC5246].

list: A container within a SharePoint site that stores list items. A list has a customizable schema that is composed of one or more fields.

login name: A string that is used to identify a user or entity to an operating system, directory service, or distributed system. For example, in Windows-integrated authentication, a login name uses the form "DOMAIN\username".

partition identifier: A GUID that identifies a partition.

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

site: A group of related webpages that is hosted by a server on the World Wide Web or an intranet. Each website has its own entry points, metadata, administration settings, and workflows. Also referred to as web site.

site collection: A set of websites that are in the same content database, have the same owner, and share administration settings. A site collection can be identified by a **GUID** or the **URL** of the top-level site for the site collection. Each site collection contains a top-level site, can contain one or more subsites, and can have a shared navigational structure.

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [SOAP1.2-1/2003].

SOAP action: The HTTP request header field used to indicate the intent of the **SOAP** request, using a **URI** value. See [SOAP1.1] section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [SOAP1.2-1/2007] section 5.3 for more information.

SOAP fault: A container for error and status information within a SOAP message. See [SOAP1.2-1/2007] section 5.4 for more information.

social tag: A user-defined keyword and hyperlink to a webpage or item on a SharePoint site or the Internet. Individual users create these tags and, by default, share them with other users.

tenant: A protocol client or protocol server that accesses a partition in a shared service database.

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

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

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [RFC1738].

user object: An object of class user. A user object is a security principal object; the principal is a person or service entity running on the computer. The shared secret allows the person or service entity to authenticate itself, as described in ([MS-AUTHSOD] section 1.1.1.1).

user profile: A collection of properties that pertain to a specific person or entity within a portal site.

User Profile Service: A data source that stores, provides, and applies information about users.

web application: A software application that uses **HTTP** as its core communication protocol and delivers information to the user by using web-based languages such as HTML and XML.

web service: A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as **HTTP**, Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

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

XML namespace prefix: An abbreviated form of an **XML namespace**, as described in [XML].

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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

1.2   References

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

1.2.1 Normative References

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

[MS-SPSTWS] Microsoft Corporation, "SharePoint Security Token Service Web Service Protocol".

[MS-UPSCWS] Microsoft Corporation, "User Profile Service Application Caching Web Service Protocol".

[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.rfc-editor.org/rfc/rfc2616.txt

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, http://www.rfc-editor.org/rfc/rfc2818.txt

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, http://www.w3.org/TR/2000/NOTE-SOAP-20000508/

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

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

[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

[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/

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/

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

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/

[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

[MC-NMF] Microsoft Corporation, ".NET Message Framing Protocol".

[MS-SPTWS] Microsoft Corporation, "Service Platform Topology Web Service Protocol".

1.3 Overview

This protocol allows protocol clients to store data related to social feed posts and feed metadata in an in-memory cache on a middle-tier **application server**. A typical scenario is a protocol client fetching the posts from a number of users to display a consolidated view of recent activities.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting requests and responses as described in [SOAP1.1], [SOAP1.2-1/2007] and [SOAP1.2-2/2007]. It transmits these messages by using **HTTP** protocol as described in [RFC2616], or the **HTTPS** protocol as described in [RFC2818] or the **TCP** protocol as described in [MC-NMF].

The following diagram shows the underlying messaging and transport stack used by the protocol.
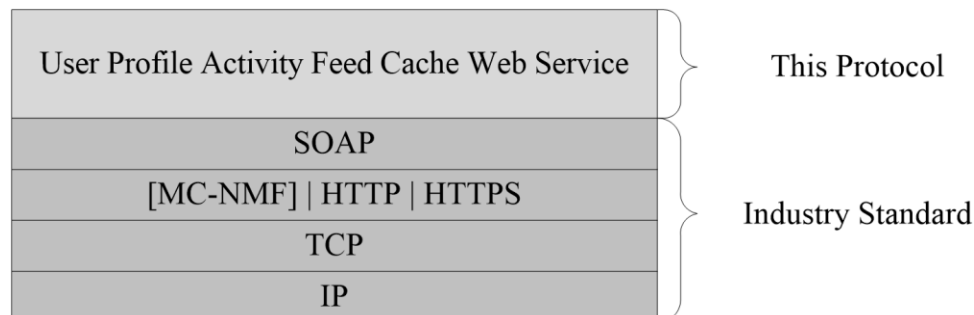
Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint URIs** that are known by protocol clients. The endpoint URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [MS-SPTWS].

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint URI of the protocol server that provides the discovery mechanism, as described in [MS-SPTWS], by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [MS-SPSTWS].

1.6 Applicability Statement

The protocol is designed to work with cached feed data.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

▪ **Supported Transports**: This protocol can be implemented by using transports that support sending **Simple Object Access Protocol (SOAP)** messages, as described in section 2.1.

▪ **Protocol Versions**: This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9   Standards Assignments

None.

2   Messages

2.1   Transport

Protocol servers MUST support **Simple Object Access Protocol (SOAP)** over **Hypertext Transfer Protocol (HTTP)**, **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, or **TCP**.

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

Protocol messages MUST be formatted as specified in either [SOAP1.1] section 4 or [SOAP1.2/1] section 5. Protocol server faults MUST be returned by using HTTP status codes, as specified in [RFC2616] section 10, or **SOAP faults**, as specified in [SOAP1.1] section 4.4 or [SOAP1.2/1] section 5.4.

If the HTTPS transport is used, a server certificate MUST be deployed.

This protocol MAY transmit an additional SOAP header, the **ServiceContext** header, as specified in [MS-SPSTWS].

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

2.2   Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [XMLSCHEMA1/2] and [XMLSCHEMA2/2], and **WSDL**, as specified 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
q1	http://Microsoft/Office/Server/FeedCache	
q2	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
q3	http://Microsoft/Office/Server/UserProfiles	
q5	http://schemas.datacontract.org/2004/07/System	
ser	http://schemas.microsoft.com/2003/10/Serialization/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://tempuri.org/	
tns1	http://Microsoft/Office/Server/FeedyCache	
tns2	http://schemas.datacontract.org/2004/07/System.Collections.Generic	

Prefix	Namespace URI	Reference
tns3	http://tempuri.org/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1/2] [XMLSCHEMA2/2]

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
ArrayOfE	The **ArrayOfE** complex type is a sequence of 0 or more **E** entries which are described in section 2.2.4.9.
ArrayOfEC	The **ArrayOfEC** complex type specifies a sequence of zero or more **EC** entries that are described in section 2.2.4.10.
ArrayOfEDT	The **ArrayOfEDT** complex type is a sequence of 0 or more **EDT** entries which are described in section 2.2.4.11.
ArrayOfint	The **ArrayOfint** complex type represents an array of arbitrary integer values.
ArrayOfNullableOfguid	The **ArrayOfNullableOfguid** complex type represents an array of arbitrary **GUID** values.
ArrayOfP	The **ArrayOfP** complex type is a sequence of 0 or more **P** entries which are described in section 2.2.4.16.
ArrayOfstring	The **ArrayOfstring** complex type represents an array of arbitrary string values.
ArrayOfUserData	The **ArrayOfUserData** complex type is defined in [MS-UPSCWS] section 2.2.4.5.
E	The **E** complex type specifies the details of **Feed entity**.
EC	The **EC** complex type consists of a pair of feed entity type and a count.
EDT	The **EDT** complex type specifies a pair of feed entity and date time.
FCCR	The **FCCR** complex type represents the result of various operations to get **feed entries**.
FCRE	The **FCRE** complex type represents the input of various operations to get feed entries.

Complex type	Description
FCRO	The **FCRO** complex type specifies the retrieval options used by various methods to retrieve the feed entries.
FeedCacheFault	The **FeedCacheFault** complex type describes errors that have occurred at the transport or the service layer.
P	The **P** complex type specifies a feed entry.
PC	The **PC** complex type specifies a sequence of zero or more feed entries as described in section 2.2.4.16 along with associated metadata.
UserData	The **UserData** complex type is defined in [MS-UPSCWS] section 2.2.4.6.

2.2.4.1 ArrayOfE

Namespace: http://Microsoft/Office/Server/FeedCache

The **ArrayOfE** complex type is a sequence of 0 or more **E** entries which are described in section 2.2.4.9.

```
<xs:complexType name="ArrayOfE" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="E" nillable="true" type="q1:E"/>
  </xs:sequence>
</xs:complexType>
```

E: Feed entity as described in section 2.2.4.9.

2.2.4.2 ArrayOfEC

Namespace: http://Microsoft/Office/Server/FeedCache

The **ArrayOfEC** complex type specifies a sequence of zero or more **EC** entries that are described in section 2.2.4.10.

```
<xs:complexType name="ArrayOfEC" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EC" nillable="true" type="q1:EC"/>
  </xs:sequence>
</xs:complexType>
```

EC: The EC entry as described in section 2.2.4.10.

2.2.4.3 ArrayOfEDT

Namespace: http://Microsoft/Office/Server/FeedCache

The **ArrayOfEDT** complex type is a sequence of 0 or more **EDT** entries which are described in section 2.2.4.11.

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

```
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EDT" nillable="true"
type="q1:EDT"/>
  </xs:sequence>
</xs:complexType>
```

EDT: Entity data time pair as described in section 2.2.4.11.

2.2.4.4 ArrayOfint

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfint** complex type represents an array of arbitrary integer values.

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

int: A single integer value.

2.2.4.5 ArrayOfNullableOfguid

Namespace: http://schemas.datacontract.org/2004/07/System

The **ArrayOfNullableOfguid** complex type represents an array of arbitrary **GUID** values.

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

guid: A single GUID value or NULL.

2.2.4.6 ArrayOfP

Namespace: http://Microsoft/Office/Server/FeedCache

The **ArrayOfP** complex type is a sequence of 0 or more **P** entries which are described in section 2.2.4.16.

```
<xs:complexType name="ArrayOfP" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="P" nillable="true" type="q1:P"/>
  </xs:sequence>
</xs:complexType>
```

P: Feed entry as described in section 2.2.4.16.

2.2.4.7 ArrayOfstring

Namespace: http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfstring** complex type represents an array of arbitrary string values.

```
<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 string value.

2.2.4.8 ArrayOfUserData

Namespace: http://Microsoft/Office/Server/UserProfiles

The **ArrayOfUserData** complex type is defined in [MS-UPSCWS] section 2.2.4.5.

```
<xs:complexType name="ArrayOfUserData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="UserData" nillable="true"
type="q3:UserData"/>
  </xs:sequence>
</xs:complexType>
```

UserData: Defined in [MS-UPSCWS] section 2.2.4.5.

2.2.4.9 E

Namespace: http://Microsoft/Office/Server/FeedCache

The **E** complex type specifies the details of **Feed entity**.

```
<xs:complexType name="E" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="ET" type="q1:ET"/>
    <xs:element minOccurs="0" name="LID" type="ser:guid"/>
    <xs:element minOccurs="0" name="PID" type="ser:guid"/>
    <xs:element minOccurs="0" name="SID" type="ser:guid"/>
    <xs:element minOccurs="0" name="Url" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="WID" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

ET: Specifies the type of feed entity as described in section 2.2.5.5. The value MUST NOT be null or empty.

LID: Specifies the identifier of the **list** where the entity feed is stored. The value MUST NOT be null or empty.

PID: Specifies the identifier of the **tenant** to which this entity belongs. The value MUST NOT be null or empty.

SID: Specifies the identifier of the **site collection** where the entity feed is stored. The value MUST NOT be null or empty.

Url: Specifies the **Uniform Resource Locator (URL)** of the **site** where the entity feed is stored. The value MUST NOT be null or empty.

WID: Specifies the identifier of the site where the entity feed is stored. The value MUST NOT be null or empty.

2.2.4.10   EC

Namespace: http://Microsoft/Office/Server/FeedCache

The **EC** complex type consists of a pair of **feed entity** type and a count.

```
<xs:complexType name="EC" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="C" type="xs:int"/>
    <xs:element minOccurs="0" name="ET" type="q1:ET"/>
  </xs:sequence>
</xs:complexType>
```

C: An integer denoting the count for this particular feed entity type.

ET: A Feed entity type as described in section 2.2.5.5.

2.2.4.11   EDT

Namespace: http://Microsoft/Office/Server/FeedCache

The **EDT** complex type specifies a pair of **feed entity** and date time.

```
<xs:complexType name="EDT" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="D" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="E" nillable="true" type="q1:E"/>
  </xs:sequence>
</xs:complexType>
```

D: This specifies a date and time value. This value MUST NOT be null.

E: This specifies a feed entity as described in section 2.2.4.9. This value MUST NOT be null.

2.2.4.12   FeedCacheFault

Namespace: http://Microsoft/Office/Server/FeedCache

The **FeedCacheFault** complex type describes errors that have occurred at the transport or the service layer.

```
<xs:complexType name="FeedCacheFault" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="FailureDetail" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FaultCode" type="q1:FeedCacheFaultCodes"/>
  </xs:sequence>
</xs:complexType>
```

FailureDetail: Specifies an error string. The protocol does not impose any restriction on the behavior of the protocol client with respect to this field.

FaultCode: Specifies an indicator of the error that occurred as described in section 2.2.5.3. The protocol does not impose any restriction on the behavior of the protocol client with respect to this field.

2.2.4.13   FCCR

Namespace: http://Microsoft/Office/Server/FeedyCache

The **FCCR** complex type represents the result of various operations to get **feed entries**.

```
<xs:complexType name="FCCR" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0" name="EC"
nillable="true" type="q1:PC"/>
    <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0" name="FC"
nillable="true" type="q1:ArrayOfEC"/>
    <xs:element xmlns:q3="http://Microsoft/Office/Server/UserProfiles" minOccurs="0" name="P"
nillable="true" type="q3:ArrayOfUserData"/>
    <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="S" nillable="true" type="q2:ArrayOfstring"/>
    <xs:element xmlns:q5="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="T" nillable="true" type="q5:ArrayOfNullableOfguid"/>
    <xs:element minOccurs="0" name="TN" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="TO" nillable="true" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

EC: A feed entry collection as specified in section 2.2.4.17.

FC: A list of **EC**. EC is specified in section 2.2.4.10.

P: An **ArrayOfUserData** of all users who have participated in the entries contained in this returned feed entry collection.

The **ArrayOfUserData** complex type is defined in [MS-UPSCWS] section 2.2.4.5.

S: An **ArrayOfstring** of the identifiers corresponding to the feed identifiers of those Participants in the returned feed entry collection who are also followed by the feed entity provided in the supplied **FCRE**. This collection will be empty if the value of the **FCRE** field **e** as defined in [MS-UPSCWS] section 2.2.4.5 is true.

The **ArrayOfstring** complex type is defined in [MS-UPSCWS] section 2.2.4.5.

T: An **ArrayOfNullableOfguid** containing the list of GUIDs of taxonomy identifiers followed by the querying feed entity provided in the supplied **FCRE**. This collection will be empty if the value of the **FCRE** field **e** as defined in [MS-UPSCWS] section 2.2.4.5 is true.

The **ArrayOfNullableOfguid** complex type is defined in [MS-UPSCWS] section 2.2.4.5.

TN: Specifies a **datetime** value, indicating the last-modified-time of the newest feed cache entry considered when assembling the contents of the **EC** field.

TO: Specifies a **datetime** value, indicating the last-modified-time of the oldest feed cache entry considered when assembling the contents of **EC** field.

2.2.4.14   FCRE

Namespace: http://Microsoft/Office/Server/FeedCache

The **FCRE** complex type represents the input of various operations to get **feed entries**.

```
<xs:complexType name="FCRE" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="a" nillable="true" type="q1:E"/>
    <xs:element minOccurs="0" name="b" nillable="true" type="xs:string"/>
```

```
        <xs:element minOccurs="0" name="c" type="q1:UPL"/>
        <xs:element minOccurs="0" name="d" type="ser:guid"/>
        <xs:element minOccurs="0" name="e" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
```

a: The **feed entity** on behalf of which this operation is being executed. If **b** is present, then this value MUST be ignored.

b: Specifies the string identifier of the feed entity.

c: Specifies how to lookup the feed entity, as specified in section 2.2.5.6.

d: A globally unique **partition identifier**.

e: A Boolean field. When true will suppress retrieval of followed feed entity information (people, tags) for the specified feed entity.

2.2.4.15   FCRO

Namespace: http://Microsoft/Office/Server/FeedCache

The **FCRO** complex type specifies the retrieval options used by various methods to retrieve the **feed entries**.

```
  <xs:complexType name="FCRO" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:sequence>
      <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="a" nillable="true" type="q2:ArrayOfint"/>
      <xs:element minOccurs="0" name="b" type="xs:int"/>
      <xs:element minOccurs="0" name="c" type="xs:boolean"/>
      <xs:element minOccurs="0" name="d" type="xs:int"/>
      <xs:element minOccurs="0" name="e" type="xs:int"/>
      <xs:element minOccurs="0" name="f" type="xs:int"/>
      <xs:element minOccurs="0" name="g" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="h" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="i" type="ser:duration"/>
    </xs:sequence>
  </xs:complexType>
```

a: A list of numerical values representing the definition of the entry, which indicates that feed entries will be considered for inclusion in the **FCCR** field **EC**, if this field contains the value of the field **MBD** of the candidate feed entry of complex type **P** as defined in [MS-UPSCWS] section 2.2.4.5 .

b: An integer bitmask field, which indicates that feed entries will be considered for inclusion in the **FCCR** field **EC**, if a bitwise AND of this field, and the value of the field **MBT** of the candidate feed entry of complex type **P** as defined in in [MS-UPSCWS] section 2.2.4.5 has a nonzero result.

c: A Boolean field which, if true, indicates that feed entries will be considered for inclusion in the **FCCR** field **EC**, the value of the field **ST** of the candidate feed entry of complex type **P** as defined in in [MS-UPSCWS] section 2.2.4.5 is nonzero.

d: MaxItemsPerEntity: An integer field indicating the maximum number of feed entries of complex type P, as specified in section 2.2.4.5, belonging to a single feed entity to be included in the returned **FCCR** field **EC**.

e: MaxNumberEntities: An integer field indicating the maximum number of feed entities to examine when considering feed entries for inclusion in the returned **FCCR** field **EC**.

f: MaxTotalItems: An integer field indicating the maximum permissible number of feed entries to include in the returned **FCCR** field **EC**.

g: Specifies a **datetime** value, indicating the most recent last-modified-time for a feed cache entry to be considered for inclusion in the **FCCR** field **EC**.

h: Specifies a **datetime** value, indicating the oldest permissible last-modified-time for a feed cache entry to be considered for inclusion in the **FCCR** field **EC**.

i: A **duration** (section 2.2.5.2) object indicating the desired maximum duration permitted for execution of the feed cache for entries meeting the constraints of the **FCRO** for the supplied **FCRE**. Upon detection of queries lasting longer than this time, the query will be terminated, and a partial **FCCR** will be returned, marked as incomplete.

2.2.4.16   P

Namespace: http://Microsoft/Office/Server/FeedCache

The **P** complex type specifies a feed entry.

```
<xs:complexType name="P" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="AD" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="D1" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="D2" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="D3" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="D4" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DP" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="EID" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="En" nillable="true" type="q1:E"/>
    <xs:element minOccurs="0" name="M" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="MBD" type="xs:int"/>
    <xs:element minOccurs="0" name="MBT" type="xs:int"/>
    <xs:element minOccurs="0" name="PL" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="R1" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="R2" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="R3" type="xs:int"/>
    <xs:element minOccurs="0" name="ST" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

AD: Specifies a string value representing author. It is up to the protocol client how to use this field.

D1: Specifies a string value representing entry data. It is up to the protocol client how to use this field.

D2: Specifies a string value representing entry data. It is up to the protocol client how to use this field.

D3: Specifies a string value representing entry data. It is up to the protocol client how to use this field.

D4: Specifies a string value representing entry data. It is up to the protocol client how to use this field.

DP: Specifies a string value representing participant data. It is up to the protocol client how to use this field.

EID: Specifies a unique identifier for this entry. The value MUST NOT be null.

En: Specifies the **feed entity** this entry belongs to as described in section 2.2.4.9.

M: Specifies a date and time value in **Coordinated Universal Time (UTC)** when this entry was last modified. The value MUST NOT be null.

MBD: Specifies a numerical value representing the definition of the entry. It is up to the protocol client how to use this field.

MBT: Specifies a numerical value representing the type of the entry. It is up to the protocol client how to use this field.

PL: Specifies a string value representing participant data. It is up to the protocol client how to use this field.

R1: Specifies a related feed entity. It is up to the protocol client how to use this field.

R2: Specifies a related **feed entry**. It is up to the protocol client how to use this field.

R3: Specifies a related feed entity type. It is up to the protocol client how to use this field.

ST: Specifies an integer value representing entry data. It is up to the protocol client how to use this field.

2.2.4.17   PC

Namespace: http://Microsoft/Office/Server/FeedCache

The **PC** complex type specifies a sequence of zero or more **feed entries** as described in section 2.2.4.16 along with associated metadata.

```
<xs:complexType name="PC" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="D" nillable="true" type="q1:ArrayOfEDT"/>
    <xs:element minOccurs="0" name="En" nillable="true" type="q1:ArrayOfP"/>
    <xs:element minOccurs="0" name="I" type="xs:boolean"/>
    <xs:element minOccurs="0" name="M" type="xs:int"/>
    <xs:element minOccurs="0" name="N" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="O" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="R" type="xs:boolean"/>
    <xs:element minOccurs="0" name="S" type="xs:boolean"/>
    <xs:element minOccurs="0" name="T" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

D: Specifies a sequence of zero or more pairs of **feed entities** and last deletion time as specified in section 2.2.4.11.

En: Specifies the sequence of feed entries as specified in section 2.2.4.16.

I: Specifies if the sequence **En** is incomplete.

M: Specifies the maximum number of feed entries to return for a particular feed entity. The protocol server MUST NOT return more entries than this value for any entity.

N: Specifies a **datetime** value. If a value is present, the protocol server MUST only return entries having modified time newer than this value.

O: Specifies a datetime value. If a value is present, the protocol server MUST only return entries having modified time older than this value.

R: Specifies if the protocol server MUST return delete markers.

S: Indicates if the sequence **En** is already sorted.

T: Indicates if the protocol server timed out before retrieving the sequence **En**. True indicates that the protocol server timed out, and false indicates that it did not time out.

2.2.4.18   UserData

Namespace: http://Microsoft/Office/Server/UserProfiles

The **UserData** complex type is defined in [MS-UPSCWS] section 2.2.4.6.

```xml
<xs:complexType name="UserData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Department" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Email" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="EmailOptin" type="xs:int"/>
    <xs:element minOccurs="0" name="FeedIdentifier" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FeedPrivacyActivity" type="xs:int"/>
    <xs:element minOccurs="0" name="IsPeopleListPublic" type="xs:boolean"/>
    <xs:element minOccurs="0" name="LastUpdate" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="MasterRecordID" type="xs:long"/>
    <xs:element minOccurs="0" name="NTName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="O15FirstRunExperience" type="xs:int"/>
    <xs:element minOccurs="0" name="PartitionID" type="ser:guid"/>
    <xs:element minOccurs="0" name="PersonalSiteCapabilities" type="xs:int"/>
    <xs:element minOccurs="0" name="PersonalSiteInstantiationState" type="xs:int"/>
    <xs:element minOccurs="0" name="PersonalSpace" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="PictureExchangeSyncState" type="xs:int"/>
    <xs:element minOccurs="0" name="PicturePlaceholderState" type="xs:int"/>
    <xs:element minOccurs="0" name="PictureTimestamp" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="PictureUrl" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="PreferredDataLocation" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="PreferredName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ProfileSubtypeID" type="xs:int"/>
    <xs:element minOccurs="0" name="RecordID" type="xs:long"/>
    <xs:element minOccurs="0" name="SID" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="SipAddress" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="StatusNote" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="UserID" type="ser:guid"/>
    <xs:element minOccurs="0" name="DelveFlags" type="xs:int"/>
    <xs:element minOccurs="0" name="HideFromAddressLists" type="xs:boolean"/>
    <xs:element minOccurs="0" name="OfficeGraphEnabled" type="xs:boolean"/>
    <xs:element minOccurs="0" name="PersonalSiteFirstCreationError" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="PersonalSiteFirstCreationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="PersonalSiteLastCreationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="PersonalSiteNumberOfRetries" type="xs:int"/>
    <xs:element minOccurs="0" name="PulseMRUPeople" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="RecipientTypeDetails" type="xs:long"/>
    <xs:element minOccurs="0" name="UserType" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Department: Defined in [MS-UPSCWS] section 2.2.4.6.

Email: Defined in [MS-UPSCWS] section 2.2.4.6.

EmailOptin: Defined in [MS-UPSCWS] section 2.2.4.6.

FeedIdentifier: Defined in [MS-UPSCWS] section 2.2.4.6.

FeedPrivacyActivity: Defined in [MS-UPSCWS] section 2.2.4.6.

IsPeopleListPublic: Defined in [MS-UPSCWS] section 2.2.4.6.

LastUpdate: Defined in [MS-UPSCWS] section 2.2.4.6.

MasterRecordID: Defined in [MS-UPSCWS] section 2.2.4.6.

NTName: Defined in [MS-UPSCWS] section 2.2.4.6.

O15FirstRunExperience: Defined in [MS-UPSCWS] section 2.2.4.6.

PartitionID: Defined in [MS-UPSCWS] section 2.2.4.6.

PersonalSiteCapabilities: Defined in [MS-UPSCWS] section 2.2.4.6.

PersonalSiteInstantiationState: Defined in [MS-UPSCWS] section 2.2.4.6.

PersonalSpace: Defined in [MS-UPSCWS] section 2.2.4.6.

PictureExchangeSyncState: An integer that indicates whether the picture by which the user prefers to be recognized is being imported from the corresponding picture in user's Exchange profile. Valid values are "0" (false) and "1" (true).

PicturePlaceholderState: An integer that indicates whether the picture by which the user prefers to be recognized is the default placeholder image. Valid values are "0" (false) and "1" (true).

PictureTimestamp: The timestamp, in **UTC** format, of the latest time the picture by which the user prefers to be recognized was updated.

PictureUrl: Defined in [MS-UPSCWS] section 2.2.4.6.

PreferredDataLocation: The preferred data location which indicates the preferred geo location for the user in a Multi-Geo tenant.

PreferredName: Defined in [MS-UPSCWS] section 2.2.4.6.

ProfileSubtypeID: Defined in [MS-UPSCWS] section 2.2.4.6.

RecordID: Defined in [MS-UPSCWS] section 2.2.4.6.

SID: Defined in [MS-UPSCWS] section 2.2.4.6.

SipAddress: Defined in [MS-UPSCWS] section 2.2.4.6.

StatusNote: Defined in [MS-UPSCWS] section 2.2.4.6.

Title: Defined in [MS-UPSCWS] section 2.2.4.6.

UserID: Defined in [MS-UPSCWS] section 2.2.4.6.

DelveFlags: For internal use only.

HideFromAddressLists: Used to hide user accounts from Delve. Only available for tenants with on-premise AD with DirSync.

OfficeGraphEnabled: For internal use only.

PersonalSiteFirstCreationError: The first error that occurred when an attempt was made to create My Site for that user for the first time.

PersonalSiteFirstCreationTime: Time when an attempt was made to create My Site for that user for the first time.

PersonalSiteLastCreationTime: Time when the last attempt was made to create My Site.

PersonalSiteNumberOfRetries: The number of attempts that were made to create the My Site.

PulseMRUPeople: The list of most recently used people.

RecipientTypeDetails: Used to categorize and filter out non-person accounts in Delve (such as meeting rooms). Only available for tenants with on-premise AD with DirSync.

UserType: Property used to distinguish between guest accounts and other user accounts. Guest accounts are filtered out in Delve.

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
char	The **char** simple type is a Unicode character that is stored in a 4-byte integer.
duration	The **duration** simple type is the length of time, as specified in [XMLSCHEMA1] and [XMLSCHEMA2].
ET	The **ET** simple type specifies the type of **Feed entity**.
FeedCacheFaultCodes	The **FeedCacheFaultCodes** simple type describes the errors that have occurred either at the **endpoint** of this protocol or in the transport layer.
guid	The **guid** simple type denotes a **GUID**.
UPL	The **UPL** simple type specifies how to lookup **user profiles**.

2.2.5.1 char

Namespace: http://schemas.microsoft.com/2003/10/Serialization/

The **char** simple type is a Unicode character that is stored in a 4-byte integer.

```
<xs:simpleType name="char" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
```

2.2.5.2 duration

Namespace: http://schemas.microsoft.com/2003/10/Serialization/

The **duration** simple type is the length of time, as specified in [XMLSCHEMA1] and [XMLSCHEMA2].

```
<xs:simpleType name="duration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.5.3 FeedCacheFaultCodes

Namespace: http://Microsoft/Office/Server/FeedCache

The **FeedCacheFaultCodes** simple type describes the errors that have occurred either at the **endpoint** of this protocol or in the transport layer.

```
<xs:simpleType name="FeedCacheFaultCodes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="UnknownError"/>
    <xs:enumeration value="InvalidInput"/>
    <xs:enumeration value="InvalidConfiguration"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **FeedCacheFaultCodes** simple type.

Value	Meaning
UnknownError	The error occurred because of unknown reasons.
InvalidInput	The error occurred because of invalid input.
InvalidConfiguration	The error occurred because of a configuration failure.

2.2.5.4 guid

Namespace: http://schemas.microsoft.com/2003/10/Serialization/

The **guid** simple type denotes a **GUID**.

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

2.2.5.5 ET

Namespace: http://Microsoft/Office/Server/FeedCache

The **ET** simple type specifies the type of **Feed entity**.

```
<xs:simpleType name="ET" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Unknown"/>
        <xs:enumeration value="User"/>
        <xs:enumeration value="Document"/>
        <xs:enumeration value="Site"/>
        <xs:enumeration value="Tag"/>
        <xs:enumeration value="Group"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **ET** simple type.

Value	Meaning
Unknown	The type of the Feed entity is not known.
User	The Feed entity is of type user and is associated with a **user profile**.
Document	The Feed entity is of type **document**.
Site	The Feed entity is of type **site**.
Tag	The Feed entity is of type **social tag**.
Group	This Feed entity MUST NOT be used.

2.2.5.6 UPL

Namespace: http://Microsoft/Office/Server/FeedCache

The **UPL** simple type specifies how to lookup **user profiles**.

```
<xs:simpleType name="UPL" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ByEmail"/>
    <xs:enumeration value="ByAccountName"/>
    <xs:enumeration value="BySid"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **UPL** simple type.

Value	Meaning
ByEmail	Lookup by **email address**.
ByAccountName	Lookup by **login name**.
BySid	Lookup by **security identifier (SID)**.

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

Except where specified, protocol clients SHOULD interpret **Hypertext Transfer Protocol (HTTP)** status codes that are returned by the protocol server as specified in [RFC2616], section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults by using **SOAP faults**. Except where otherwise specified, these SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

3.1   Server Details

This protocol is based on stateless interaction between the protocol client and protocol server. The protocol simply exposes the current configuration state of the **User Profile Service** to all authenticated **user objects**. There are no dependencies between the information sent in one client-server request/response pair and the next pair; all dependencies are based on the current state of the application service. They are specified in the following figure.
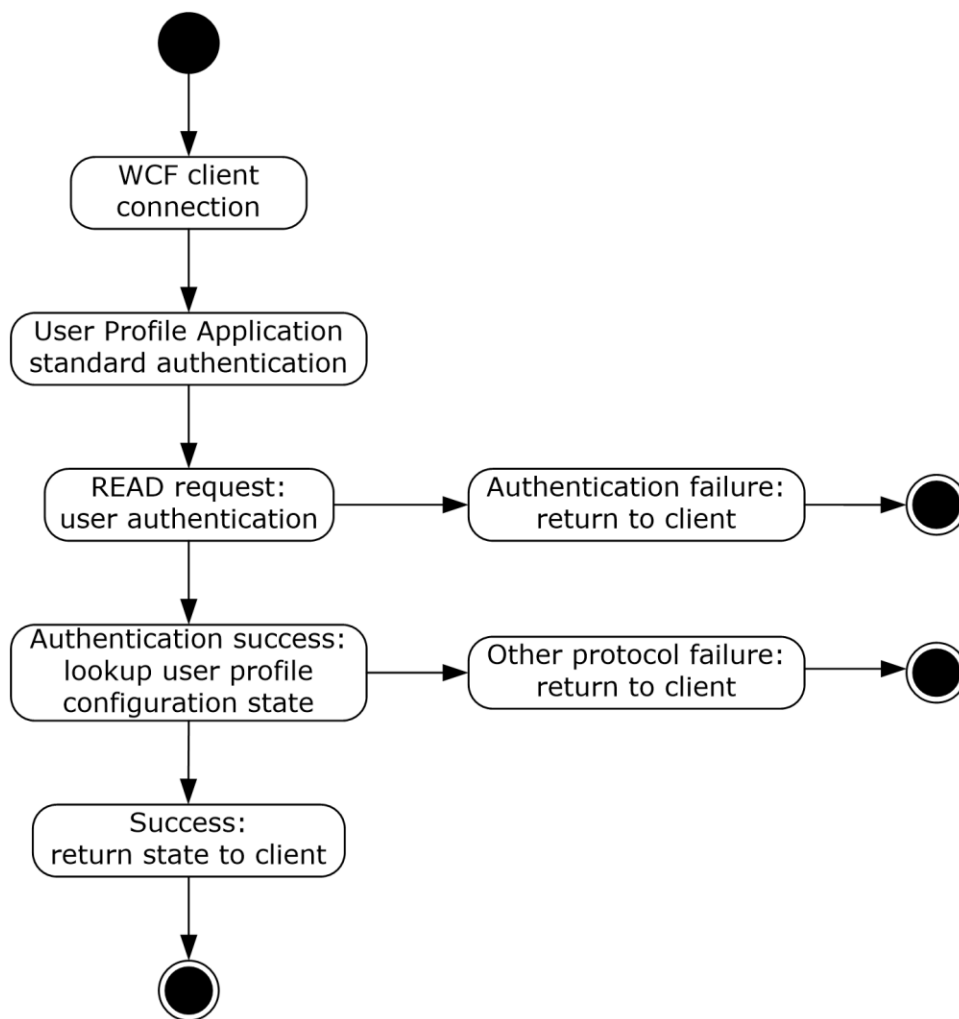
Figure 2: State dependencies of the application service

The User Profile Service uses authentication mechanisms that are standard for **Web services** and **SOAP**.

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.

This protocol allows protocol clients to store feed data and later retrieve it in various ways. The protocol server needs to maintain the state between each of the operations as described in section 3.1.4.

The protocol server needs to keep track of:

Feed entries: The protocol server needs to see how many feed entries have been added using the operations described in section 3.1.4. It also needs to track which feed entry corresponds to which **feed entity**. It is up to the protocol server how long it keeps track of this information.

Feed entity **followed status:** The protocol server also needs to keep track if a given entity has been marked as followed using the operations described in section 3.1.4. It is up to the protocol server how long it keeps track of this information.

LMT repopulation needed: The protocol server needs to keep track of whether last modified time repopulation is required for any given protocol client. It is up to the protocol server how long it keeps track of this information.

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
AddFeedEntries	This **WSDL operation** helps in adding multiple **feed entries**.
AddFeedEntriesForRepop	This WSDL operation helps in adding multiple feed entries.
AddFeedEntry	This WSDL operation adds a feed entry for a given **feed entity**.
BulkLMTUpdate	This WSDL operation updates the last modified times of a number of feed entities.
GetCategoricalFeed	This WSDL operation retrieves up to 100 recently modified feed entries from the provided feed entities.
GetConsolidatedFeed	This WSDL operation retrieves specified feed entries from the provided feed entities.
GetEntries	This WSDL operation lets a protocol client query feed entries given their feed entry identifiers.
GetFeeds	This WSDL operation lets the protocol client to get feed entries from the specified feed entities.
GetPublishedFeed	This WSDL operation lets a protocol client retrieve the published feed entries for a specific feed entity.
IsEntityActivelyFollowed	This WSDL operation checks if a given feed entity has earlier been marked as followed.
IsRepopulationNeeded	This WSDL operation lets a protocol client know if last modified time repopulation is needed.
NewEntityFollower	This WSDL operation lets a protocol client mark a given feed entity as being actively followed.
RefreshFollowedEntities	This WSDL operation lets a protocol client mark a number of feed entities as followed.
RemoveEntityFeed	This WSDL operation is used to remove all the feed entries of a given feed entity.
RemoveFeedEntry	This WSDL operation removes a given feed entry from a given feed entity.

Operation	Description
RemoveInternalRegions	This WSDL operation removes some internal data structure. This operation MUST NOT be called by any protocol client.

3.1.4.1 AddFeedEntry

This **WSDL operation** adds a **feed entry** for a given **feed entity**.

The following is the **WSDL** port type specification of the **AddFeedEntry** WSDL operation.

```
<wsdl:operation name="AddFeedEntry" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntry"
message="tns:IFeedCacheService_AddFeedEntry_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntryResponse"
message="tns:IFeedCacheService_AddFeedEntry_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntryFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntry_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

AddFeedEntry adds a feed entry to a feed entity. The entries can later be retrieved by the retrieval operations as described in section 3.1.4.4, section 3.1.4.3, section 3.1.4.5, section 3.1.4.6, and section 3.1.4.7. The feed entry can also be removed as described in section 3.1.4.12, and section 3.1.4.13.

3.1.4.1.1 Messages

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

Message	Description
IFeedCacheService_AddFeedEntry_InputMessage	The request WSDL message for the **AddFeedEntry WSDL operation**.
IFeedCacheService_AddFeedEntry_OutputMessage	The response WSDL message for the **AddFeedEntry** WSDL operation.

3.1.4.1.1.1   IFeedCacheService_AddFeedEntry_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/AddFeedEntry
```

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

3.1.4.1.1.2 IFeedCacheService_AddFeedEntry_OutputMessage

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

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

3.1.4.1.2 Elements

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

Element	Description
AddFeedEntry	The input data for the **AddFeedEntry WSDL operation**.
AddFeedEntryResponse	The result data for the **AddFeedEntry** WSDL operation.

3.1.4.1.2.1 AddFeedEntry

The **AddFeedEntry** element specifies the input data for the **AddFeedEntry WSDL operation**.

```
<xs:element name="AddFeedEntry" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entry" nillable="true" type="q1:P"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** to which this **feed entry** is to be added.

entry: The feed entry to be added.

3.1.4.1.2.2 AddFeedEntryResponse

The **AddFeedEntryResponse** element specifies the result data for the **AddFeedEntry WSDL operation**.

```
<xs:element name="AddFeedEntryResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddFeedEntryResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddFeedEntryResult: A Boolean value that indicates whether the operation succeeded or failed.

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 BulkLMTUpdate

This **WSDL operation** updates the last modified times of a number of **feed entities**.

The following is the **WSDL** port type specification of the **BulkLMTUpdate** WSDL operation.

```
<wsdl:operation name="BulkLMTUpdate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/BulkLMTUpdate"
message="tns:IFeedCacheService_BulkLMTUpdate_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/BulkLMTUpdateResponse"
message="tns:IFeedCacheService_BulkLMTUpdate_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/BulkLMTUpdateFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_BulkLMTUpdate_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

This operation helps update the last modified times of feed entities. This operation is used in conjunction with **IsRepopulationNeeded** as outlined in section 3.1.4.9. If **IsRepopulationNeeded** returns true, the protocol client can use this operation to update the last modified times.

3.1.4.2.1 Messages

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

Message	Description
IFeedCacheService_BulkLMTUpdate_InputMessage	The request WSDL message for the **BulkLMTUpdate WSDL operation**.
IFeedCacheService_BulkLMTUpdate_OutputMessage	The response WSDL message for the **BulkLMTUpdate** WSDL operation.

3.1.4.2.1.1   IFeedCacheService_BulkLMTUpdate_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/BulkLMTUpdate
```

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

3.1.4.2.1.2   IFeedCacheService_BulkLMTUpdate_OutputMessage

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

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

3.1.4.2.2 Elements

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

Element	Description
BulkLMTUpdate	The input data for the **BulkLMTUpdate WSDL operation**.
BulkLMTUpdateResponse	The result data for the **BulkLMTUpdate** WSDL operation.

3.1.4.2.2.1   BulkLMTUpdate

The **BulkLMTUpdate** element specifies the input data for the **BulkLMTUpdate WSDL operation**.

```
<xs:element name="BulkLMTUpdate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/System.Collections.Generic" minOccurs="0"
name="lastModifiedTimes" nillable="true" type="tns2:ArrayOfKeyValuePairOfELEHsv_SlRZJ"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

callerID: The identifier for the protocol client. This value MUST NOT be null or empty.

lastModifiedTimes: Specifies the list of **feed entries** and their associated last modified time as specified in section 3.1.4.2.3.1.

3.1.4.2.2.2   BulkLMTUpdateResponse

The **BulkLMTUpdateResponse** element specifies the result data for the **BulkLMTUpdate WSDL operation**.

```
<xs:element name="BulkLMTUpdateResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="BulkLMTUpdateResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

BulkLMTUpdateResult: A Boolean value that indicates whether the operation succeeded or failed.

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
ArrayOfKeyValuePairOfELEHsv_SlRZJ	Contains zero or more **KeyValuePairOfELEHsv_SlRZJ** objects.
KeyValuePairOfELEHsv_SlRZJ	A key value pair of **feed entity** and the last time it was modified.
LE	Represents the last modified time data of a given feed entity.

3.1.4.2.3.1 ArrayOfKeyValuePairOfELEHsv_SlRZJ

Namespace: http://schemas.datacontract.org/2004/07/System.Collections.Generic

This complex type contains zero or more **KeyValuePairOfELEHsv_SlRZJ** objects.

```
<xs:complexType name="ArrayOfKeyValuePairOfELEHsv_SlRZJ"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValuePairOfELEHsv_SlRZJ"
type="tns2:KeyValuePairOfELEHsv_SlRZJ"/>
  </xs:sequence>
</xs:complexType>
```

KeyValuePairOfELEHsv_SlRZJ: Specifies the key value pair of entity and last modified time as detailed in section 3.1.4.2.3.2.

3.1.4.2.3.2 KeyValuePairOfELEHsv_SlRZJ

Namespace: http://schemas.datacontract.org/2004/07/System.Collections.Generic

This complex type is a key value pair of **feed entity** and the last time it was modified.

```
<xs:complexType name="KeyValuePairOfELEHsv_SlRZJ"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="key"
nillable="true" type="q1:E"/>
    <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="value"
nillable="true" type="q1:LE"/>
  </xs:sequence>
</xs:complexType>
```

key: Specifies the feed entity.

value: Specifies the last modified data as specified in section 3.1.4.2.3.3.

3.1.4.2.3.3 LE

Namespace: http://Microsoft/Office/Server/FeedCache

This complex type represents the last modified time data of a given **feed entity**.

```
<xs:complexType name="LE" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="b" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="c" type="xs:unsignedShort"/>
    <xs:element minOccurs="0" name="r" type="xs:long"/>
    <xs:element minOccurs="0" name="t" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
```

b: This value MUST be ZERO (0).

c: This value MUST be ZERO (0).

r: This value MUST be null.

t: This MUST contain the last time this feed entity was modified.

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 GetCategoricalFeed

This **WSDL operation** retrieves up to 100 recently modified **feed entries** from the provided **feed entities**.

The following is the **WSDL** port type specification of the **GetCategoricalFeed** WSDL operation.

```
<wsdl:operation name="GetCategoricalFeed" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetCategoricalFeed"
message="tns:IFeedCacheService_GetCategoricalFeed_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetCategoricalFeedResponse"
message="tns:IFeedCacheService_GetCategoricalFeed_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetCategoricalFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetCategoricalFeed_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.3.1 Messages

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

Message	Description
IFeedCacheService_GetCategoricalFeed_InputMessage	The request WSDL message for the **GetCategoricalFeed WSDL operation**.
IFeedCacheService_GetCategoricalFeed_OutputMessage	The response WSDL message for the **GetCategoricalFeed** WSDL operation.

3.1.4.3.1.1 IFeedCacheService_GetCategoricalFeed_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/GetCategoricalFeed
```

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

3.1.4.3.1.2 IFeedCacheService_GetCategoricalFeed_OutputMessage

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

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

3.1.4.3.2 Elements

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

Element	Description
GetCategoricalFeed	The input data for the **GetCategoricalFeed WSDL operation**.
GetCategoricalFeedResponse	The result data for the **GetCategoricalFeed** WSDL operation.

3.1.4.3.2.1 GetCategoricalFeed

The **GetCategoricalFeed** element specifies the input data for the **GetCategoricalFeed WSDL operation**.

```
<xs:element name="GetCategoricalFeed" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetEntity" nillable="true" type="q1:FCRE"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

fcRetEntity: Element of type **FCRE** as describe in section 2.2.4.14.

followedEntities: The **feed entities** whose **feed entries** are to be retrieved.

fcRetOptions: Element of type **FCRO** as describe in section 2.2.4.15.

3.1.4.3.2.2   GetCategoricalFeedResponse

The **GetCategoricalFeedResponse** element specifies the result data for the **GetCategoricalFeed WSDL operation**.

```
<xs:element name="GetCategoricalFeedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetCategoricalFeedResult" nillable="true" type="tns1:FCCR"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetCategoricalFeedResult: Element of type **PC** as described in section 2.2.4.17.

3.1.4.3.3 Complex Types

None.

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 GetConsolidatedFeed

This **WSDL operation** retrieves specified **feed entries** from the provided **feed entities**.

The following is the **WSDL** port type specification of the **GetConsolidatedFeed** WSDL operation.

```
<wsdl:operation name="GetConsolidatedFeed" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetConsolidatedFeed"
message="tns:IFeedCacheService_GetConsolidatedFeed_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetConsolidatedFeedResponse"
message="tns:IFeedCacheService_GetConsolidatedFeed_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetConsolidatedFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetConsolidatedFeed_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.4.1 Messages

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

Message	Description
IFeedCacheService_GetConsolidatedFeed_InputMessage	The request WSDL message for the **GetConsolidatedFeed WSDL operation**.
IFeedCacheService_GetConsolidatedFeed_OutputMessage	The response WSDL message for the **GetConsolidatedFeed** WSDL operation.

3.1.4.4.1.1   IFeedCacheService_GetConsolidatedFeed_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/GetConsolidatedFeed
```

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

3.1.4.4.1.2   IFeedCacheService_GetConsolidatedFeed_OutputMessage

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

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

3.1.4.4.2 Elements

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

Element	Description
GetConsolidatedFeed	The input data for the **GetConsolidatedFeed WSDL operation**.
GetConsolidatedFeedResponse	The result data for the **GetConsolidatedFeed** WSDL operation.

3.1.4.4.2.1   GetConsolidatedFeed

The **GetConsolidatedFeed** element specifies the input data for the **GetConsolidatedFeed WSDL operation**.

```
<xs:element name="GetConsolidatedFeed" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetEntity" nillable="true" type="q1:FCRE"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
    </xs:sequence>
```

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

fcRetEntity: Element of type **FCRE** as describe in section 2.2.4.14.

followedEntities: The **feed entities** whose **feed entries** are to be retrieved.

fcRetOptions: Element of type **FCRO** as describe in section 2.2.4.15.

3.1.4.4.2.2 GetConsolidatedFeedResponse

The **GetConsolidatedFeedResponse** element specifies the result data for the **GetConsolidatedFeed WSDL operation**.

```
<xs:element name="GetConsolidatedFeedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetConsolidatedFeedResult" nillable="true" type="tns1:FCCR"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetConsolidatedFeedResult: Element of type **PC** as described in section 2.2.4.17.

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 GetEntries

This **WSDL operation** lets a protocol client query **feed entries** given their feed entry identifiers.

The following is the **WSDL** port type specification of the **GetEntries** WSDL operation.

```
<wsdl:operation name="GetEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetThreadEntries"
message="tns:IFeedCacheService_GetEntries_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```
   <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetEntriesResponse"
message="tns:IFeedCacheService_GetEntries_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetEntriesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetEntries_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.5.1 Messages

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

Message	Description
IFeedCacheService_GetEntries_InputMessage	The request WSDL message for the **GetEntries WSDL operation**.
IFeedCacheService_GetEntries_OutputMessage	The response WSDL message for the **GetEntries** WSDL operation.

3.1.4.5.1.1   IFeedCacheService_GetEntries_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/GetThreadEntries
```

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

3.1.4.5.1.2   IFeedCacheService_GetEntries_OutputMessage

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

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

3.1.4.5.2 Elements

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

Element	Description
GetEntries	The input data for the **GetEntries WSDL operation**.
GetEntriesResponse	The result data for the **GetEntries** WSDL operation.

3.1.4.5.2.1   GetEntries

The **GetEntries** element specifies the input data for the **GetEntries WSDL operation**.

```
<xs:element name="GetEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entryIdentifiers" nillable="true" type="q1:ArrayOfPI"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entryIdentifiers: Array of entry identifiers as specified in section 3.1.4.5.3.1.

3.1.4.5.2.2   GetEntriesResponse

The **GetEntriesResponse** element specifies the result data for the **GetEntries WSDL operation**.

```
<xs:element name="GetEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="GetEntriesResult" nillable="true" type="q1:PC"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEntriesResult: Element of type **PC** as described in section 2.2.4.17.

3.1.4.5.3 Complex Types

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

Complex type	Description
ArrayOfPI	A sequence of zero or more elements of type **PI.**
PI	A pair of **feed entity** and the associated **feed entry** identifiers.

3.1.4.5.3.1   ArrayOfPI

Namespace: http://Microsoft/Office/Server/FeedCache

The complex type **ArrayOfPI** is a sequence of zero or more elements of type **PI**.

```
<xs:complexType name="ArrayOfPI" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="PI" nillable="true" type="q1:PI"/>
  </xs:sequence>
</xs:complexType>
```

PI: A pair of feed entity and feed entry identifiers as specified in section 3.1.4.5.3.2.

3.1.4.5.3.2   PI

Namespace: http://Microsoft/Office/Server/FeedCache

The complex type **PI** is actually a pair of **feed entity** and the associated **feed entry** identifiers.

```
<xs:complexType name="PI" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="E" nillable="true" type="q1:E"/>
    <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="I" nillable="true" type="q2:ArrayOfstring"/>
  </xs:sequence>
</xs:complexType>
```

E: Specifies the feed entity.

I: A sequence of zero (0) or more feed entry identifiers.

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 GetFeeds

This **WSDL operation** lets the protocol client to get **feed entries** from the specified **feed entities**.

The following is the **WSDL** port type specification of the **GetFeeds** WSDL operation.

```
<wsdl:operation name="GetFeeds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetFeeds"
message="tns:IFeedCacheService_GetFeeds_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetFeedsResponse"
message="tns:IFeedCacheService_GetFeeds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault wsaw:Action="http://tempuri.org/IFeedCacheService/GetFeedsFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetFeeds_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

This operation helps retrieve feed entries for a number of feed entities in one call. One possible use of this is to transfer data between two protocol servers.

3.1.4.6.1 Messages

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

Message	Description
IFeedCacheService_GetFeeds_InputMessage	The request WSDL message for the **GetFeeds WSDL**

Message	Description
	operation.
IFeedCacheService_GetFeeds_OutputMessage	The response WSDL message for the **GetFeeds** WSDL operation.

3.1.4.6.1.1   IFeedCacheService_GetFeeds_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/GetFeeds
```

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

3.1.4.6.1.2   IFeedCacheService_GetFeeds_OutputMessage

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

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

3.1.4.6.2 Elements

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

Element	Description
GetFeeds	The input data for the **GetFeeds WSDL operation**.
GetFeedsResponse	The result data for the **GetFeeds** WSDL operation.

3.1.4.6.2.1   GetFeeds

The **GetFeeds** element specifies the input data for the **GetFeeds WSDL operation**.

```
<xs:element name="GetFeeds" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="requestingEntity" nillable="true" type="q1:E"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entityNewerThanPair" nillable="true" type="q1:ArrayOfEDT"/>
      <xs:element minOccurs="0" name="maxItemsPerEntity" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

callerID: The identifier for the protocol client. This value MUST NOT be null or empty.

requestingEntity: The **feed entity** on behalf of which this call is being made.

entityNewerThanPair: A sequence of pairs of feed entity and a date time value. The operation MUST NOT return **feed entries** for this feed entity having a modified time older than this date time.

maxItemsPerEntity: An integer specifying the maximum number of feed entries to return for a given feed entity. The "M" element in the response is also set to this value.

3.1.4.6.2.2   GetFeedsResponse

The **GetFeedsResponse** element specifies the result data for the **GetFeeds WSDL operation**.

```
<xs:element name="GetFeedsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="GetFeedsResult" nillable="true" type="q1:PC"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetFeedsResult: Element of type **PC** as described in section 2.2.4.17.

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 GetPublishedFeed

This **WSDL operation** lets a protocol client retrieve the published **feed entries** for a specific **feed entity**.

The following is the **WSDL** port type specification of the **GetPublishedFeed** WSDL operation.

```
<wsdl:operation name="GetPublishedFeed" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetPublishedFeed"
message="tns:IFeedCacheService_GetPublishedFeed_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetPublishedFeedResponse"
message="tns:IFeedCacheService_GetPublishedFeed_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetPublishedFeedFeedCacheFaultFault"
```

```
name="FeedCacheFaultFault"
message="tns:IFeedCacheService GetPublishedFeed FeedCacheFaultFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.7.1 Messages

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

Message	Description
IFeedCacheService_GetPublishedFeed_InputMessage	The request WSDL message for the **GetPublishedFeed WSDL operation**.
IFeedCacheService_GetPublishedFeed_OutputMessage	The response WSDL message for the **GetPublishedFeed** WSDL operation.

3.1.4.7.1.1   IFeedCacheService_GetPublishedFeed_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/GetPublishedFeed
```

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

3.1.4.7.1.2   IFeedCacheService_GetPublishedFeed_OutputMessage

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

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

3.1.4.7.2 Elements

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

Element	Description
GetPublishedFeed	The input data for the **GetPublishedFeed WSDL operation**.
GetPublishedFeedResponse	The result data for the **GetPublishedFeed** WSDL operation.

3.1.4.7.2.1   GetPublishedFeed

The **GetPublishedFeed** element specifies the input data for the **GetPublishedFeed WSDL operation**.

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

```
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcTargetEntity" nillable="true" type="q1:FCRE"/>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcViewingEntity" nillable="true" type="q1:FCRE"/>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
      </xs:sequence>
    </xs:complexType>
</xs:element>
```

fcTargetEntity: Element of type **FCRE** as describe in section 2.2.4.14.

fcViewingEntity: Element of type **FCRE** as describe in section 2.2.4.14.

fcRetOptions: Element of type **FCRO** as describe in section 2.2.4.15.

3.1.4.7.2.2   GetPublishedFeedResponse

The **GetPublishedFeedResponse** element specifies the result data for the **GetPublishedFeed WSDL operation**.

```
<xs:element name="GetPublishedFeedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetPublishedFeedResult" nillable="true" type="tns1:FCCR"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetPublishedFeedResult: Element of type **FCCR** as described in section 2.2.4.13.

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 IsEntityActivelyFollowed

This **WSDL operation** checks if a given **feed entity** has earlier been marked as followed.

The following is the **WSDL** port type specification of the **IsEntityActivelyFollowed** WSDL operation.

```
<wsdl:operation name="IsEntityActivelyFollowed"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/IsEntityActivelyFollowed"
message="tns:IFeedCacheService_IsEntityActivelyFollowed_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/IsEntityActivelyFollowedResponse"
message="tns:IFeedCacheService_IsEntityActivelyFollowed_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/IsEntityActivelyFollowedFeedCacheFaultFault
" name="FeedCacheFaultFault"
message="tns:IFeedCacheService_IsEntityActivelyFollowed_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.8.1 Messages

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

Message	Description
IFeedCacheService_IsEntityActivelyFollowed_InputMessage	The request WSDL message for the **IsEntityActivelyFollowed WSDL operation**.
IFeedCacheService_IsEntityActivelyFollowed_OutputMessage	The response WSDL message for the **IsEntityActivelyFollowed** WSDL operation.

3.1.4.8.1.1   IFeedCacheService_IsEntityActivelyFollowed_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/IsEntityActivelyFollowed
```

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

3.1.4.8.1.2   IFeedCacheService_IsEntityActivelyFollowed_OutputMessage

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

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

3.1.4.8.2 Elements

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

Element	Description
IsEntityActivelyFollowed	The input data for the **IsEntityActivelyFollowed WSDL operation**.

Element	Description
IsEntityActivelyFollowedResponse	The result data for the **IsEntityActivelyFollowed** WSDL operation.

3.1.4.8.2.1   IsEntityActivelyFollowed

The **IsEntityActivelyFollowed** element specifies the input data for the **IsEntityActivelyFollowed WSDL operation**.

```
<xs:element name="IsEntityActivelyFollowed" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** to check for.

3.1.4.8.2.2   IsEntityActivelyFollowedResponse

The **IsEntityActivelyFollowedResponse** element specifies the result data for the **IsEntityActivelyFollowed WSDL operation**.

```
<xs:element name="IsEntityActivelyFollowedResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsEntityActivelyFollowedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsEntityActivelyFollowedResult: A Boolean value that indicates whether the **feed entity** has been marked as followed or not.

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 IsRepopulationNeeded

This **WSDL operation** lets a protocol client know if last modified time repopulation is needed.

The following is the **WSDL** port type specification of the **IsRepopulationNeeded** WSDL operation.

```
<wsdl:operation name="IsRepopulationNeeded" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/IsRepopulationNeeded"
message="tns:IFeedCacheService_IsRepopulationNeeded_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/IsRepopulationNeededResponse"
message="tns:IFeedCacheService_IsRepopulationNeeded_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/IsRepopulationNeededFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_IsRepopulationNeeded_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

This operation is to be used by protocol clients to check if they need to repopulate the last modified times. If this operation returns true, then the protocol client can use the **BulkLMTUpdate** operation as specified in section 3.1.4.2 to update the last modified times.

3.1.4.9.1 Messages

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

Message	Description
IFeedCacheService_IsRepopulationNeeded_InputMessage	The request WSDL message for the **IsRepopulationNeeded WSDL operation**.
IFeedCacheService_IsRepopulationNeeded_OutputMessage	The response WSDL message for the **IsRepopulationNeeded** WSDL operation.

3.1.4.9.1.1   IFeedCacheService_IsRepopulationNeeded_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/IsRepopulationNeeded
```

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

3.1.4.9.1.2   IFeedCacheService_IsRepopulationNeeded_OutputMessage

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

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

3.1.4.9.2 Elements

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

Element	Description
IsRepopulationNeeded	The input data for the **IsRepopulationNeeded WSDL operation**.
IsRepopulationNeededResponse	The result data for the **IsRepopulationNeeded** WSDL operation.

3.1.4.9.2.1   IsRepopulationNeeded

The **IsRepopulationNeeded** element specifies the input data for the **IsRepopulationNeeded WSDL operation**.

```
<xs:element name="IsRepopulationNeeded" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

callerID: The identifier for the protocol client. This value MUST NOT be null or empty.

3.1.4.9.2.2   IsRepopulationNeededResponse

The **IsRepopulationNeededResponse** element specifies the result data for the **IsRepopulationNeeded WSDL operation**.

```
<xs:element name="IsRepopulationNeededResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="IsRepopulationNeededResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

IsRepopulationNeededResult: A Boolean value that indicates whether repopulation is needed.

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.

3.1.4.10 NewEntityFollower

This **WSDL operation** lets a protocol client mark a given **feed entity** as being actively followed.

The following is the **WSDL** port type specification of the **NewEntityFollower** WSDL operation.

```
<wsdl:operation name="NewEntityFollower" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/NewEntityFollower"
message="tns:IFeedCacheService_NewEntityFollower_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/NewEntityFollowerResponse"
message="tns:IFeedCacheService_NewEntityFollower_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/NewEntityFollowerFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_NewEntityFollower_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.10.1 Messages

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

Message	Description
IFeedCacheService_NewEntityFollower_InputMessage	The request WSDL message for the **NewEntityFollower WSDL operation**.
IFeedCacheService_NewEntityFollower_OutputMessage	The response WSDL message for the **NewEntityFollower** WSDL operation.

3.1.4.10.1.1 IFeedCacheService_NewEntityFollower_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/NewEntityFollower
```

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

3.1.4.10.1.2 IFeedCacheService_NewEntityFollower_OutputMessage

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

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

3.1.4.10.2 Elements

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

Element	Description
NewEntityFollower	The input data for the **NewEntityFollower WSDL operation**.
NewEntityFollowerResponse	The result data for the **NewEntityFollower** WSDL operation.

3.1.4.10.2.1 NewEntityFollower

The **NewEntityFollower** element specifies the input data for the **NewEntityFollower WSDL operation**.

```
<xs:element name="NewEntityFollower" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** which is to be marked as followed.

3.1.4.10.2.2 NewEntityFollowerResponse

The **NewEntityFollowerResponse** element specifies the result data for the **NewEntityFollower WSDL operation**.

```
<xs:element name="NewEntityFollowerResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="NewEntityFollowerResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

NewEntityFollowerResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.4.11 RefreshFollowedEntities

This **WSDL operation** lets a protocol client mark a number of **feed entities** as followed.

The following is the **WSDL** port type specification of the **RefreshFollowedEntities** WSDL operation.

```
<wsdl:operation name="RefreshFollowedEntities" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RefreshFollowedEntities"
message="tns:IFeedCacheService_RefreshFollowedEntities_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/RefreshFollowedEntitiesResponse"
message="tns:IFeedCacheService_RefreshFollowedEntities_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RefreshFollowedEntitiesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RefreshFollowedEntities_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.11.1 Messages

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

Message	Description
IFeedCacheService_RefreshFollowedEntities_InputMessage	The request WSDL message for the **RefreshFollowedEntities WSDL operation**.
IFeedCacheService_RefreshFollowedEntities_OutputMessage	The response WSDL message for the **RefreshFollowedEntities** WSDL operation.

3.1.4.11.1.1 IFeedCacheService_RefreshFollowedEntities_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/RefreshFollowedEntities
```

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

3.1.4.11.1.2 IFeedCacheService_RefreshFollowedEntities_OutputMessage

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

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

3.1.4.11.2 Elements

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

Element	Description
RefreshFollowedEntities	The input data for the **RefreshFollowedEntities WSDL operation**.
RefreshFollowedEntitiesResponse	The result data for the **RefreshFollowedEntities** WSDL operation.

3.1.4.11.2.1 RefreshFollowedEntities

The **RefreshFollowedEntities** element specifies the input data for the **RefreshFollowedEntities WSDL operation**.

```
<xs:element name="RefreshFollowedEntities" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

followedEntities: A sequence of zero of more **feed entities** to mark as followed.

3.1.4.11.2.2 RefreshFollowedEntitiesResponse

The **RefreshFollowedEntitiesResponse** element specifies the result data for the **RefreshFollowedEntities WSDL operation**.

```
<xs:element name="RefreshFollowedEntitiesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RefreshFollowedEntitiesResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RefreshFollowedEntitiesResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.11.3 Complex Types

None.

3.1.4.11.4 Simple Types

None.

3.1.4.11.5 Attributes

None.

3.1.4.11.6 Groups

None.

3.1.4.11.7 Attribute Groups

None.

3.1.4.12 RemoveEntityFeed

This **WSDL operation** is used to remove all the **feed entries** of a given **feed entity**.

The following is the **WSDL** port type specification of the **RemoveEntityFeed** WSDL operation.

```
<wsdl:operation name="RemoveEntityFeed" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveEntityFeed"
message="tns:IFeedCacheService RemoveEntityFeed InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveEntityFeedResponse"
message="tns:IFeedCacheService RemoveEntityFeed OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveEntityFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveEntityFeed_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.12.1 Messages

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

Message	Description
IFeedCacheService_RemoveEntityFeed_InputMessage	The request WSDL message for the **RemoveEntityFeed WSDL operation**.
IFeedCacheService_RemoveEntityFeed_OutputMessage	The response WSDL message for the **RemoveEntityFeed** WSDL operation.

3.1.4.12.1.1 IFeedCacheService_RemoveEntityFeed_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/RemoveEntityFeed
```

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

3.1.4.12.1.2 IFeedCacheService_RemoveEntityFeed_OutputMessage

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

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

3.1.4.12.2 Elements

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

Element	Description
RemoveEntityFeed	The input data for the **RemoveEntityFeed WSDL operation**.
RemoveEntityFeedResponse	The result data for the **RemoveEntityFeed** WSDL operation.

3.1.4.12.2.1 RemoveEntityFeed

The **RemoveEntityFeed** element specifies the input data for the **RemoveEntityFeed WSDL operation**.

```
<xs:element name="RemoveEntityFeed" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** whose **feed entries** to remove. The entity MUST be of type 'User'.

3.1.4.12.2.2 RemoveEntityFeedResponse

The **RemoveEntityFeedResponse** element specifies the result data for the **RemoveEntityFeed WSDL operation**.

```
<xs:element name="RemoveEntityFeedResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RemoveEntityFeedResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RemoveEntityFeedResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.12.3 Complex Types

None.

3.1.4.12.4 Simple Types

None.

3.1.4.12.5 Attributes

None.

3.1.4.12.6 Groups

None.

3.1.4.12.7   Attribute Groups

None.

3.1.4.13   RemoveFeedEntry

This **WSDL operation** removes a given **feed entry** from a given **feed entity**.

The following is the **WSDL** port type specification of the **RemoveFeedEntry** WSDL operation.

```
<wsdl:operation name="RemoveFeedEntry" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveFeedEntry"
message="tns:IFeedCacheService_RemoveFeedEntry_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveFeedEntryResponse"
message="tns:IFeedCacheService_RemoveFeedEntry_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveFeedEntryFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveFeedEntry_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.13.1   Messages

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

Message	Description
IFeedCacheService_RemoveFeedEntry_InputMessage	The request WSDL message for the **RemoveFeedEntry WSDL operation**.
IFeedCacheService_RemoveFeedEntry_OutputMessage	The response WSDL message for the **RemoveFeedEntry** WSDL operation.

3.1.4.13.1.1 IFeedCacheService_RemoveFeedEntry_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/RemoveFeedEntry
```

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

3.1.4.13.1.2 IFeedCacheService_RemoveFeedEntry_OutputMessage

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

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

3.1.4.13.2   Elements

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

Element	Description
RemoveFeedEntry	The input data for the **RemoveFeedEntry WSDL operation**.
RemoveFeedEntryResponse	The result data for the **RemoveFeedEntry** WSDL operation.

3.1.4.13.2.1 RemoveFeedEntry

The **RemoveFeedEntry** element specifies the input data for the **RemoveFeedEntry WSDL operation**.

```
<xs:element name="RemoveFeedEntry" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entry" nillable="true" type="q1:P"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** whose **feed entry** to remove.

entry: The feed entry to remove.

3.1.4.13.2.2 RemoveFeedEntryResponse

The **RemoveFeedEntryResponse** element specifies the result data for the **RemoveFeedEntry WSDL operation**.

```
<xs:element name="RemoveFeedEntryResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RemoveFeedEntryResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RemoveFeedEntryResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.13.3   Complex Types

None.

3.1.4.13.4   Simple Types

None.

3.1.4.13.5   Attributes

None.

3.1.4.13.6 Groups

None.

3.1.4.13.7 Attribute Groups

None.

3.1.4.14 AddFeedEntries

This **WSDL operation** helps in adding multiple **feed entries**.

The following is the **WSDL** port type specification of the **AddFeedEntries** WSDL operation.

```
<wsdl:operation name="AddFeedEntries" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntries"
message="tns:IFeedCacheService_AddFeedEntries_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesResponse"
message="tns:IFeedCacheService_AddFeedEntries_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntries_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

This operation is used to add a number of feed entries potentially associated with separate **feed entities** in a single operation. This can be used in scenarios such as repopulating feed entries of a given feed entity or in some automated process.

3.1.4.14.1 Messages

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

Message	Description
IFeedCacheService_AddFeedEntries_InputMessage	The request WSDL message for the **AddFeedEntries WSDL operation**.
IFeedCacheService_AddFeedEntries_OutputMessage	The response WSDL message for the **AddFeedEntries** WSDL operation.

3.1.4.14.1.1 IFeedCacheService_AddFeedEntries_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/AddFeedEntries
```

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

3.1.4.14.1.2 IFeedCacheService_AddFeedEntries_OutputMessage

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

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

3.1.4.14.2   Elements

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

Element	Description
AddFeedEntries	The input data for the **AddFeedEntries WSDL operation**.
AddFeedEntriesResponse	The result data for the **AddFeedEntries** WSDL operation.

3.1.4.14.2.1 AddFeedEntries

The **AddFeedEntries** element specifies the input data for the **AddFeedEntries WSDL operation**.

```
<xs:element name="AddFeedEntries" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entries" nillable="true" type="q1:PC"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entries: An element of type **PC**, as specified in section 2.2.4.17. MUST NOT be null. Only the EN element is used by this operation, and it specifies a sequence of zero or more **feed entries** as specified in section 2.2.4.16. MUST NOT be null.

3.1.4.14.2.2 AddFeedEntriesResponse

The **AddFeedEntriesResponse** element specifies the result data for the **AddFeedEntries WSDL operation**.

```
<xs:element name="AddFeedEntriesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddFeedEntriesResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddFeedEntriesResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.14.3   Complex Types

None.

3.1.4.14.4   Simple Types

None.

3.1.4.14.5   Attributes

None.

3.1.4.14.6 Groups

None.

3.1.4.14.7 Attribute Groups

None.

3.1.4.15 RemoveInternalRegions

This **WSDL operation** removes some internal data structure. This operation MUST NOT be called by any protocol client.

The following is the **WSDL** port type specification of the **RemoveInternalRegions** WSDL operation.

```
<wsdl:operation name="RemoveInternalRegions" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
   <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveInternalRegions"
message="tns:IFeedCacheService_RemoveInternalRegions_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveInternalRegionsResponse"
message="tns:IFeedCacheService_RemoveInternalRegions_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveInternalRegionsFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveInternalRegions_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.15.1 Messages

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

Message	Description
IFeedCacheService_RemoveInternalRegions_InputMessage	The request WSDL message for the **RemoveInternalRegions WSDL operation**.
IFeedCacheService_RemoveInternalRegions_OutputMessage	The response WSDL message for the **RemoveInternalRegions** WSDL operation.

3.1.4.15.1.1 IFeedCacheService_RemoveInternalRegions_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/RemoveInternalRegions
```

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

3.1.4.15.1.2 IFeedCacheService_RemoveInternalRegions_OutputMessage

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

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

3.1.4.15.2 Elements

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

Element	Description
RemoveInternalRegions	The input data for the **RemoveInternalRegions WSDL operation**.
RemoveInternalRegionsResponse	The result data for the **RemoveInternalRegions** WSDL operation.

3.1.4.15.2.1 RemoveInternalRegions

The **RemoveInternalRegions** element specifies the input data for the **RemoveInternalRegions WSDL operation**.

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

webAppUrl: The URL of the calling **Web application**.

3.1.4.15.2.2 RemoveInternalRegionsResponse

The **RemoveInternalRegionsResponse** element specifies the result data for the **RemoveInternalRegions WSDL operation**.

```
<xs:element name="RemoveInternalRegionsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="RemoveInternalRegionsResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RemoveInternalRegionsResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.15.3 Complex Types

None.

3.1.4.15.4 Simple Types

None.

3.1.4.15.5 Attributes

None.

3.1.4.15.6 Groups

None.

3.1.4.15.7 Attribute Groups

None.

3.1.4.16 AddFeedEntriesForRepop

This **WSDL operation** helps in adding multiple **feed entries**.

The following is the **WSDL** port type specification of the **AddFeedEntriesForRepop** WSDL operation.

```
<wsdl:operation name="AddFeedEntriesForRepop" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntriesForRepop"
message="tns:IFeedCacheService_AddFeedEntriesForRepop_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesForRepopResponse"
message="tns:IFeedCacheService_AddFeedEntriesForRepop_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesForRepopFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntriesForRepop_FeedCacheFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.16.1 Messages

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

Message	Description
IFeedCacheService_AddFeedEntriesForRepop_InputMessage	The request WSDL message for the **AddFeedEntriesForRepop WSDL operation**.
IFeedCacheService_AddFeedEntriesForRepop_OutputMessage	The response WSDL message for the **AddFeedEntriesForRepop** WSDL operation.

3.1.4.16.1.1 IFeedCacheService_AddFeedEntriesForRepop_InputMessage

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

The **SOAP action** value is:

```
http://Microsoft.Office.Server.UserProfiles/AddFeedEntriesForRepop
```

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

3.1.4.16.1.2   IFeedCacheService_AddFeedEntriesForRepop_OutputMessage

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

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

3.1.4.16.2   Elements

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

Element	Description
AddFeedEntriesForRepop	The input data for the **AddFeedEntriesForRepop WSDL operation**.
AddFeedEntriesForRepopResponse	The result data for the **AddFeedEntriesForRepop** WSDL operation.

3.1.4.16.2.1 AddFeedEntriesForRepop

The **AddFeedEntriesForRepop** element specifies the input data for the **AddFeedEntriesForRepop WSDL operation**.

```
<xs:element name="AddFeedEntriesForRepop" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entries" nillable="true" type="q1:PC"/>
      <xs:element minOccurs="0" name="lastDeleted" nillable="true" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

entity: The **feed entity** on behalf of which this operation is being executed.

entries: A sequence of zero or more **feed entries** of type **PC** (as specified in section 2.2.4.17) that are to be added.

lastDeleted: A date and time indicating when the last time a feed entry was deleted from the feed entity.

3.1.4.16.2.2 AddFeedEntriesForRepopResponse

The **AddFeedEntriesForRepopResponse** element specifies the result data for the **AddFeedEntriesForRepop WSDL operation**.

```
<xs:element name="AddFeedEntriesForRepopResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddFeedEntriesForRepopResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddFeedEntriesForRepopResult: A Boolean value that indicates whether the operation succeeded or failed.

3.1.4.16.3   Complex Types

None.

3.1.4.16.4   Simple Types

None.

3.1.4.16.5   Attributes

None.

3.1.4.16.6   Groups

None.

3.1.4.16.7   Attribute Groups

None.

3.1.5   Timer Events

None.

3.1.6   Other Local Events

None.

4   Protocol Examples

4.1   AddFeedEntry

To add a **feed entry**, the protocol client sends the following **WSDL message**:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.Office.Server.UserProfiles/AddFeedEntry</a:Action>
    <a:MessageID>urn:uuid:e2a9eb1e-6fde-4934-be39-9cf816f1f655</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <AddFeedEntry xmlns="http://tempuri.org/">
      <entity xmlns:b="http://Microsoft/Office/Server/FeedCache"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:ET>User</b:ET>
        <b:LID>61e7fd65-62f4-4321-8f44-945640eb2ce1</b:LID>
        <b:PID>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:PID>
        <b:SID>354936ff-bb63-45a5-b08d-ba6373087cf7</b:SID>
        <b:Url>http://machine/my/personal/user</b:Url>
        <b:WID>6c00a125-2a29-44c3-97ea-7e6f2341000e</b:WID>
      </entity>
      <entry xmlns:b="http://Microsoft/Office/Server/FeedCache"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:D1>entry</b:D1>
        <b:EID>364a93b2a29d459ebea86a959b104d98</b:EID>
        <b:M>2011-10-29T00:06:15.0336138Z</b:M>
        <b:MBD>1</b:MBD>
        <b:MBT>2</b:MBT>
      </entry>
    </AddFeedEntry>
  </s:Body>
</s:Envelope>
```

The protocol server responds with:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IFeedCacheService/AddFeedEntryResponse</a:A
ction>
  </s:Header>
  <s:Body>
    <AddFeedEntryResponse xmlns="http://tempuri.org/">
      <AddFeedEntryResult>true</AddFeedEntryResult>
    </AddFeedEntryResponse>
  </s:Body>
</s:Envelope>
```

4.2 GetPublishedFeed

To get the **feed entries** back for this **feed entity**, the protocol client sends the following **WSDL message**:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.Office.Server.UserProfiles/GetPublishedFeed</a:Action>
    <a:MessageID>urn:uuid:ae5e547d-5663-46f3-8574-daf7b774bd29</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <GetPublishedFeed xmlns="http://tempuri.org/">
      <fcTargetEntity xmlns:b="http://Microsoft/Office/Server/FeedCache"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:a>
          <b:ET>User</b:ET>
          <b:LID>61e7fd65-62f4-4321-8f44-945640eb2ce1</b:LID>
          <b:PID>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:PID>
          <b:SID>354936ff-bb63-45a5-b08d-ba6373087cf7</b:SID>
          <b:Url>http://machine/my/personal/user</b:Url>
          <b:WID>6c00a125-2a29-44c3-97ea-7e6f2341000e</b:WID>
        </b:a>
        <b:d>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:d>
      </fcTargetEntity>
      <fcViewingEntity xmlns:b="http://Microsoft/Office/Server/FeedCache"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:a>
          <b:ET>User</b:ET>
          <b:LID>61e7fd65-62f4-4321-8f44-945640eb2ce1</b:LID>
          <b:PID>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:PID>
          <b:SID>354936ff-bb63-45a5-b08d-ba6373087cf7</b:SID>
          <b:Url>http://machine/my/personal/user</b:Url>
          <b:WID>6c00a125-2a29-44c3-97ea-7e6f2341000e</b:WID>
        </b:a>
        <b:d>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:d>
      </fcViewingEntity>
      <fcRetOptions xmlns:b="http://Microsoft/Office/Server/FeedCache"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:d>20</b:d>
        <b:e>20</b:e>
        <b:f>20</b:f>
        <b:h>2011-10-28T16:37:53.266-07:00</b:h>
      </fcRetOptions>
    </GetPublishedFeed>
  </s:Body>
</s:Envelope>
```

The protocol server responds with:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IFeedCacheService/GetPublishedFeedResponse</a:Action>
    <a:RelatesTo>urn:uuid:ef48db0d-d770-4e13-8710-496c38a1f82c</a:RelatesTo>
    <ActivityId CorrelationId="6e89a29a-db76-4de4-8465-11c526e28acb"
xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">00000000-0000-0000-
0000-000000000000</ActivityId>
  </s:Header>
  <s:Body>
```

```
      <GetPublishedFeedResponse xmlns="http://tempuri.org/">
        <GetPublishedFeedResult xmlns:b="http://Microsoft/Office/Server/FeedCache"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:En>
            <b:P>
              <b:D1>entry</b:D1>
              <b:EID>ff2bc270089f4bf0a54690c30eae9d30</b:EID>
              <b:En>
                <b:ET>User</b:ET>
                <b:LID>61e7fd65-62f4-4321-8f44-945640eb2ce1</b:LID>
                <b:PID>0c37852b-34d0-418e-91c6-2ac25af4be5b</b:PID>
                <b:SID>354936ff-bb63-45a5-b08d-ba6373087cf7</b:SID>
                <b:Url>http://machine/my/personal/user</b:Url>
                <b:WID>6c00a125-2a29-44c3-97ea-7e6f2341000e</b:WID>
              </b:En>
              <b:M>2011-10-28T23:37:53.2668995Z</b:M>
              <b:MBD>1</b:MBD>
              <b:MBT>2</b:MBT>
            </b:P>
          </b:En>
          <b:M>20</b:M>
        </GetPublishedFeedResult>
      </GetPublishedFeedResponse>
    </s:Body>
  </s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6   Appendix A: Full WSDL

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

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://tempuri.org/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://tempuri.org/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns3="http://tempuri.org/Imports"
targetNamespace="http://tempuri.org/Imports">
      <xs:import namespace="http://Microsoft/Office/Server/FeedCache"/>
      <xs:import namespace="http://Microsoft/Office/Server/FeedyCache"/>
      <xs:import namespace="http://Microsoft/Office/Server/UserProfiles"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://tempuri.org/"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="IFeedCacheService">
    <wsdl:operation name="AddFeedEntry">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntry"
message="tns:IFeedCacheService_AddFeedEntry_InputMessage"/>
      <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntryResponse"
message="tns:IFeedCacheService_AddFeedEntry_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntryFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntry_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddFeedEntries">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntries"
message="tns:IFeedCacheService_AddFeedEntries_InputMessage"/>
      <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesResponse"
message="tns:IFeedCacheService_AddFeedEntries_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntries_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveFeedEntry">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveFeedEntry"
message="tns:IFeedCacheService_RemoveFeedEntry_InputMessage"/>
      <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveFeedEntryResponse"
message="tns:IFeedCacheService_RemoveFeedEntry_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveFeedEntryFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveFeedEntry_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveEntityFeed">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveEntityFeed"
message="tns:IFeedCacheService_RemoveEntityFeed_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveEntityFeedResponse"
message="tns:IFeedCacheService_RemoveEntityFeed_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveEntityFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveEntityFeed_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
```

```
     <wsdl:operation name="RemoveInternalRegions">
       <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RemoveInternalRegions"
message="tns:IFeedCacheService_RemoveInternalRegions_InputMessage"/>
       <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveInternalRegionsResponse"
message="tns:IFeedCacheService_RemoveInternalRegions_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RemoveInternalRegionsFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RemoveInternalRegions_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="GetConsolidatedFeed">
       <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetConsolidatedFeed"
message="tns:IFeedCacheService_GetConsolidatedFeed_InputMessage"/>
       <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/GetConsolidatedFeedResponse"
message="tns:IFeedCacheService_GetConsolidatedFeed_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetConsolidatedFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetConsolidatedFeed_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="GetPublishedFeed">
       <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetPublishedFeed"
message="tns:IFeedCacheService_GetPublishedFeed_InputMessage"/>
       <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/GetPublishedFeedResponse"
message="tns:IFeedCacheService_GetPublishedFeed_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetPublishedFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetPublishedFeed_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="GetCategoricalFeed">
       <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetCategoricalFeed"
message="tns:IFeedCacheService_GetCategoricalFeed_InputMessage"/>
       <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/GetCategoricalFeedResponse"
message="tns:IFeedCacheService_GetCategoricalFeed_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetCategoricalFeedFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetCategoricalFeed_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="GetEntries">
       <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetThreadEntries"
message="tns:IFeedCacheService_GetEntries_InputMessage"/>
       <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetEntriesResponse"
message="tns:IFeedCacheService_GetEntries_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetEntriesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetEntries_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="NewEntityFollower">
       <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/NewEntityFollower"
message="tns:IFeedCacheService_NewEntityFollower_InputMessage"/>
       <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/NewEntityFollowerResponse"
message="tns:IFeedCacheService_NewEntityFollower_OutputMessage"/>
       <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/NewEntityFollowerFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_NewEntityFollower_FeedCacheFaultFault_FaultMessage"/>
     </wsdl:operation>
     <wsdl:operation name="IsEntityActivelyFollowed">
```

```
      <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/IsEntityActivelyFollowed"
message="tns:IFeedCacheService_IsEntityActivelyFollowed_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/IsEntityActivelyFollowedResponse"
message="tns:IFeedCacheService IsEntityActivelyFollowed OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/IsEntityActivelyFollowedFeedCacheFaultFault
" name="FeedCacheFaultFault"
message="tns:IFeedCacheService_IsEntityActivelyFollowed_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RefreshFollowedEntities">
      <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/RefreshFollowedEntities"
message="tns:IFeedCacheService_RefreshFollowedEntities_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/RefreshFollowedEntitiesResponse"
message="tns:IFeedCacheService_RefreshFollowedEntities_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/RefreshFollowedEntitiesFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_RefreshFollowedEntities_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="BulkLMTUpdate">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/BulkLMTUpdate"
message="tns:IFeedCacheService_BulkLMTUpdate_InputMessage"/>
      <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/BulkLMTUpdateResponse"
message="tns:IFeedCacheService_BulkLMTUpdate_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/BulkLMTUpdateFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_BulkLMTUpdate_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddFeedEntriesForRepop">
      <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/AddFeedEntriesForRepop"
message="tns:IFeedCacheService_AddFeedEntriesForRepop_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesForRepopResponse"
message="tns:IFeedCacheService AddFeedEntriesForRepop OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/AddFeedEntriesForRepopFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_AddFeedEntriesForRepop_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="IsRepopulationNeeded">
      <wsdl:input
wsaw:Action="http://Microsoft.Office.Server.UserProfiles/IsRepopulationNeeded"
message="tns:IFeedCacheService_IsRepopulationNeeded_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IFeedCacheService/IsRepopulationNeededResponse"
message="tns:IFeedCacheService IsRepopulationNeeded OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/IsRepopulationNeededFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_IsRepopulationNeeded_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetFeeds">
      <wsdl:input wsaw:Action="http://Microsoft.Office.Server.UserProfiles/GetFeeds"
message="tns:IFeedCacheService_GetFeeds_InputMessage"/>
      <wsdl:output wsaw:Action="http://tempuri.org/IFeedCacheService/GetFeedsResponse"
message="tns:IFeedCacheService_GetFeeds_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IFeedCacheService/GetFeedsFeedCacheFaultFault"
name="FeedCacheFaultFault"
message="tns:IFeedCacheService_GetFeeds_FeedCacheFaultFault_FaultMessage"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="DefaultBinding_IFeedCacheService" type="tns:IFeedCacheService">
```

```
      <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
      <wsdl:operation name="AddFeedEntry">
        <soap:operation soapAction="http://Microsoft.Office.Server.UserProfiles/AddFeedEntry"
style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="FeedCacheFaultFault">
          <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddFeedEntries">
        <soap:operation soapAction="http://Microsoft.Office.Server.UserProfiles/AddFeedEntries"
style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="FeedCacheFaultFault">
          <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveFeedEntry">
        <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/RemoveFeedEntry" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="FeedCacheFaultFault">
          <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveEntityFeed">
        <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/RemoveEntityFeed" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="FeedCacheFaultFault">
          <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveInternalRegions">
        <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/RemoveInternalRegions"
style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="FeedCacheFaultFault">
          <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetConsolidatedFeed">
```

```
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/GetConsolidatedFeed"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetPublishedFeed">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/GetPublishedFeed" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetCategoricalFeed">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/GetCategoricalFeed"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEntries">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/GetThreadEntries" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="NewEntityFollower">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/NewEntityFollower" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsEntityActivelyFollowed">
```

```
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/IsEntityActivelyFollowed"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RefreshFollowedEntities">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/RefreshFollowedEntities"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="BulkLMTUpdate">
      <soap:operation soapAction="http://Microsoft.Office.Server.UserProfiles/BulkLMTUpdate"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddFeedEntriesForRepop">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/AddFeedEntriesForRepop"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="IsRepopulationNeeded">
      <soap:operation
soapAction="http://Microsoft.Office.Server.UserProfiles/IsRepopulationNeeded"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetFeeds">
```

```
        <soap:operation soapAction="http://Microsoft.Office.Server.UserProfiles/GetFeeds"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="FeedCacheFaultFault">
        <soap:fault use="literal" name="FeedCacheFaultFault" namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:message name="IFeedCacheService_AddFeedEntries_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_AddFeedEntries_InputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntries"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_AddFeedEntries_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntriesResponse"/>
  </wsdl:message>
  <wsdl:message
name="IFeedCacheService_AddFeedEntriesForRepop_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService AddFeedEntriesForRepop InputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntriesForRepop"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_AddFeedEntriesForRepop_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntriesForRepopResponse"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_AddFeedEntry_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_AddFeedEntry_InputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntry"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService AddFeedEntry OutputMessage">
    <wsdl:part name="parameters" element="tns:AddFeedEntryResponse"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_BulkLMTUpdate_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_BulkLMTUpdate_InputMessage">
    <wsdl:part name="parameters" element="tns:BulkLMTUpdate"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService BulkLMTUpdate OutputMessage">
    <wsdl:part name="parameters" element="tns:BulkLMTUpdateResponse"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_GetCategoricalFeed_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService GetCategoricalFeed InputMessage">
    <wsdl:part name="parameters" element="tns:GetCategoricalFeed"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_GetCategoricalFeed_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCategoricalFeedResponse"/>
  </wsdl:message>
  <wsdl:message
name="IFeedCacheService_GetConsolidatedFeed_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
```

```
<wsdl:message name="IFeedCacheService GetConsolidatedFeed InputMessage">
  <wsdl:part name="parameters" element="tns:GetConsolidatedFeed"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetConsolidatedFeed_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetConsolidatedFeedResponse"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetEntries_FeedCacheFaultFault_FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService GetEntries InputMessage">
  <wsdl:part name="parameters" element="tns:GetEntries"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetEntries_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEntriesResponse"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService GetFeeds FeedCacheFaultFault FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetFeeds_InputMessage">
  <wsdl:part name="parameters" element="tns:GetFeeds"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetFeeds_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetFeedsResponse"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_GetPublishedFeed_FeedCacheFaultFault_FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService GetPublishedFeed InputMessage">
  <wsdl:part name="parameters" element="tns:GetPublishedFeed"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService GetPublishedFeed OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPublishedFeedResponse"/>
</wsdl:message>
<wsdl:message
name="IFeedCacheService_IsEntityActivelyFollowed_FeedCacheFaultFault_FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService IsEntityActivelyFollowed InputMessage">
  <wsdl:part name="parameters" element="tns:IsEntityActivelyFollowed"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_IsEntityActivelyFollowed_OutputMessage">
  <wsdl:part name="parameters" element="tns:IsEntityActivelyFollowedResponse"/>
</wsdl:message>
<wsdl:message
name="IFeedCacheService_IsRepopulationNeeded_FeedCacheFaultFault_FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_IsRepopulationNeeded_InputMessage">
  <wsdl:part name="parameters" element="tns:IsRepopulationNeeded"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_IsRepopulationNeeded_OutputMessage">
  <wsdl:part name="parameters" element="tns:IsRepopulationNeededResponse"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService NewEntityFollower FeedCacheFaultFault FaultMessage">
  <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService NewEntityFollower InputMessage">
  <wsdl:part name="parameters" element="tns:NewEntityFollower"/>
</wsdl:message>
<wsdl:message name="IFeedCacheService_NewEntityFollower_OutputMessage">
  <wsdl:part name="parameters" element="tns:NewEntityFollowerResponse"/>
</wsdl:message>
```

```
  <wsdl:message
name="IFeedCacheService_RefreshFollowedEntities_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RefreshFollowedEntities_InputMessage">
    <wsdl:part name="parameters" element="tns:RefreshFollowedEntities"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RefreshFollowedEntities_OutputMessage">
    <wsdl:part name="parameters" element="tns:RefreshFollowedEntitiesResponse"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveEntityFeed_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveEntityFeed_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveEntityFeed"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveEntityFeed_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveEntityFeedResponse"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveFeedEntry_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveFeedEntry_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveFeedEntry"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveFeedEntry_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveFeedEntryResponse"/>
  </wsdl:message>
  <wsdl:message
name="IFeedCacheService_RemoveInternalRegions_FeedCacheFaultFault_FaultMessage">
    <wsdl:part xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="detail"
element="q1:FeedCacheFault"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveInternalRegions_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveInternalRegions"/>
  </wsdl:message>
  <wsdl:message name="IFeedCacheService_RemoveInternalRegions_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveInternalRegionsResponse"/>
  </wsdl:message>
</wsdl:definitions>
```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://Microsoft/Office/Server/FeedCache	q1	7.3
http://Microsoft/Office/Server/FeedyCache	tns1	7.8
http://Microsoft/Office/Server/UserProfiles	q3	7.6
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q2	7.4
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.2
http://schemas.datacontract.org/2004/07/System.Collections.Generic	tns2	7.5
http://schemas.datacontract.org/2004/07/System	q5	7.7
http://tempuri.org/	tns	7.1

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

7.1 http://tempuri.org/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://Microsoft/Office/Server/FeedCache"/>
  <xs:import namespace="http://Microsoft/Office/Server/FeedyCache"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:element name="AddFeedEntry">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entry" nillable="true" type="q1:P"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddFeedEntryResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AddFeedEntryResult" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddFeedEntries">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entries" nillable="true" type="q1:PC"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddFeedEntriesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AddFeedEntriesResult" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveFeedEntry">
```

```xml
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entry" nillable="true" type="q1:P"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveFeedEntryResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="RemoveFeedEntryResult" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFeed">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveEntityFeedResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="RemoveEntityFeedResult" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveInternalRegions">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="webAppUrl" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RemoveInternalRegionsResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="RemoveInternalRegionsResult" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConsolidatedFeed">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetEntity" nillable="true" type="q1:FCRE"/>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
          <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConsolidatedFeedResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetConsolidatedFeedResult" nillable="true" type="tns1:FCCR"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetPublishedFeed">
      <xs:complexType>
        <xs:sequence>
```

```
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcTargetEntity" nillable="true" type="q1:FCRE"/>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcViewingEntity" nillable="true" type="q1:FCRE"/>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetPublishedFeedResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetPublishedFeedResult" nillable="true" type="tns1:FCCR"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetCategoricalFeed">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetEntity" nillable="true" type="q1:FCRE"/>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="fcRetOptions" nillable="true" type="q1:FCRO"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetCategoricalFeedResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns1="http://Microsoft/Office/Server/FeedyCache" minOccurs="0"
name="GetCategoricalFeedResult" nillable="true" type="tns1:FCCR"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetEntries">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entryIdentifiers" nillable="true" type="q1:ArrayOfPI"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetEntriesResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="GetEntriesResult" nillable="true" type="q1:PC"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="NewEntityFollower">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="NewEntityFollowerResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="NewEntityFollowerResult" type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="IsEntityActivelyFollowed">
```

```
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="IsEntityActivelyFollowedResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="IsEntityActivelyFollowedResult" type="xs:boolean"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="RefreshFollowedEntities">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="followedEntities" nillable="true" type="q1:ArrayOfE"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="RefreshFollowedEntitiesResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="RefreshFollowedEntitiesResult" type="xs:boolean"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="BulkLMTUpdate">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
              <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/System.Collections.Generic" minOccurs="0"
name="lastModifiedTimes" nillable="true" type="tns2:ArrayOfKeyValuePairOfELEHsv_SlRZJ"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="BulkLMTUpdateResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="BulkLMTUpdateResult" type="xs:boolean"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="AddFeedEntriesForRepop">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entity" nillable="true" type="q1:E"/>
              <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entries" nillable="true" type="q1:PC"/>
              <xs:element minOccurs="0" name="lastDeleted" nillable="true" type="xs:dateTime"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="AddFeedEntriesForRepopResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="AddFeedEntriesForRepopResult" type="xs:boolean"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="IsRepopulationNeeded">
          <xs:complexType>
            <xs:sequence>
```

```
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="IsRepopulationNeededResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="IsRepopulationNeededResult" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFeeds">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="callerID" type="ser:guid"/>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="requestingEntity" nillable="true" type="q1:E"/>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="entityNewerThanPair" nillable="true" type="q1:ArrayOfEDT"/>
        <xs:element minOccurs="0" name="maxItemsPerEntity" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetFeedsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0"
name="GetFeedsResult" nillable="true" type="q1:PC"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

7.2 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="ser:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="ser:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
```

```
          <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
          <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
          <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
      </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="ser:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName"/>
  <xs:attribute name="Id" type="xs:ID"/>
  <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>
```

7.3   http://Microsoft/Office/Server/FeedCache Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q1="http://Microsoft/Office/Server/FeedCache"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="http://Microsoft/Office/Server/FeedCache"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:complexType name="E">
    <xs:sequence>
      <xs:element minOccurs="0" name="ET" type="q1:ET"/>
      <xs:element minOccurs="0" name="LID" type="ser:guid"/>
      <xs:element minOccurs="0" name="PID" type="ser:guid"/>
      <xs:element minOccurs="0" name="SID" type="ser:guid"/>
      <xs:element minOccurs="0" name="Url" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="WID" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="E" nillable="true" type="q1:E"/>
  <xs:simpleType name="ET">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="Unknown"/>
          <xs:enumeration value="User"/>
          <xs:enumeration value="Document"/>
          <xs:enumeration value="Site"/>
          <xs:enumeration value="Tag"/>
          <xs:enumeration value="Group"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="ET" nillable="true" type="q1:ET"/>
  <xs:complexType name="P">
    <xs:sequence>
      <xs:element minOccurs="0" name="AD" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="D1" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="D2" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="D3" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="D4" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="DP" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="EID" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="En" nillable="true" type="q1:E"/>
      <xs:element minOccurs="0" name="M" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="MBD" type="xs:int"/>
      <xs:element minOccurs="0" name="MBT" type="xs:int"/>
      <xs:element minOccurs="0" name="PL" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="R1" nillable="true" type="xs:string"/>
```

```
        <xs:element minOccurs="0" name="R2" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="R3" type="xs:int"/>
        <xs:element minOccurs="0" name="ST" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="P" nillable="true" type="q1:P"/>
    <xs:complexType name="FeedCacheFault">
      <xs:sequence>
        <xs:element minOccurs="0" name="FailureDetail" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="FaultCode" type="q1:FeedCacheFaultCodes"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="FeedCacheFault" nillable="true" type="q1:FeedCacheFault"/>
    <xs:simpleType name="FeedCacheFaultCodes">
      <xs:restriction base="xs:string">
        <xs:enumeration value="UnknownError"/>
        <xs:enumeration value="InvalidInput"/>
        <xs:enumeration value="InvalidConfiguration"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="FeedCacheFaultCodes" nillable="true" type="q1:FeedCacheFaultCodes"/>
    <xs:complexType name="PC">
      <xs:sequence>
        <xs:element minOccurs="0" name="D" nillable="true" type="q1:ArrayOfEDT"/>
        <xs:element minOccurs="0" name="En" nillable="true" type="q1:ArrayOfP"/>
        <xs:element minOccurs="0" name="I" type="xs:boolean"/>
        <xs:element minOccurs="0" name="M" type="xs:int"/>
        <xs:element minOccurs="0" name="N" nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="O" nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="R" type="xs:boolean"/>
        <xs:element minOccurs="0" name="S" type="xs:boolean"/>
        <xs:element minOccurs="0" name="T" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="PC" nillable="true" type="q1:PC"/>
    <xs:complexType name="ArrayOfEDT">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="EDT" nillable="true"
type="q1:EDT"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfEDT" nillable="true" type="q1:ArrayOfEDT"/>
    <xs:complexType name="EDT">
      <xs:sequence>
        <xs:element minOccurs="0" name="D" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="E" nillable="true" type="q1:E"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="EDT" nillable="true" type="q1:EDT"/>
    <xs:complexType name="ArrayOfP">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="P" nillable="true" type="q1:P"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfP" nillable="true" type="q1:ArrayOfP"/>
    <xs:complexType name="FCRE">
      <xs:sequence>
        <xs:element minOccurs="0" name="a" nillable="true" type="q1:E"/>
        <xs:element minOccurs="0" name="b" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="c" type="q1:UPL"/>
        <xs:element minOccurs="0" name="d" type="ser:guid"/>
        <xs:element minOccurs="0" name="e" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="FCRE" nillable="true" type="q1:FCRE"/>
    <xs:simpleType name="UPL">
      <xs:restriction base="xs:string">
        <xs:enumeration value="ByEmail"/>
        <xs:enumeration value="ByAccountName"/>
```

```
          <xs:enumeration value="BySid"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="UPL" nillable="true" type="q1:UPL"/>
    <xs:complexType name="ArrayOfE">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="E" nillable="true" type="q1:E"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfE" nillable="true" type="q1:ArrayOfE"/>
    <xs:complexType name="FCRO">
      <xs:sequence>
        <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="a" nillable="true" type="q2:ArrayOfint"/>
        <xs:element minOccurs="0" name="b" type="xs:int"/>
        <xs:element minOccurs="0" name="c" type="xs:boolean"/>
        <xs:element minOccurs="0" name="d" type="xs:int"/>
        <xs:element minOccurs="0" name="e" type="xs:int"/>
        <xs:element minOccurs="0" name="f" type="xs:int"/>
        <xs:element minOccurs="0" name="g" nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="h" nillable="true" type="xs:dateTime"/>
        <xs:element minOccurs="0" name="i" type="ser:duration"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="FCRO" nillable="true" type="q1:FCRO"/>
    <xs:complexType name="ArrayOfEC">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="EC" nillable="true"
type="q1:EC"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfEC" nillable="true" type="q1:ArrayOfEC"/>
    <xs:complexType name="EC">
      <xs:sequence>
        <xs:element minOccurs="0" name="C" type="xs:int"/>
        <xs:element minOccurs="0" name="ET" type="q1:ET"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="EC" nillable="true" type="q1:EC"/>
    <xs:complexType name="ArrayOfPI">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="PI" nillable="true"
type="q1:PI"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfPI" nillable="true" type="q1:ArrayOfPI"/>
    <xs:complexType name="PI">
      <xs:sequence>
        <xs:element minOccurs="0" name="E" nillable="true" type="q1:E"/>
        <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="I" nillable="true" type="q2:ArrayOfstring"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="PI" nillable="true" type="q1:PI"/>
    <xs:complexType name="LE">
      <xs:sequence>
        <xs:element minOccurs="0" name="b" type="xs:unsignedLong"/>
        <xs:element minOccurs="0" name="c" type="xs:unsignedShort"/>
        <xs:element minOccurs="0" name="r" type="xs:long"/>
        <xs:element minOccurs="0" name="t" type="xs:long"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="LE" nillable="true" type="q1:LE"/>
</xs:schema>
```

7.4 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfint">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfint" nillable="true" type="q2:ArrayOfint"/>
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="q2:ArrayOfstring"/>
</xs:schema>
```

7.5 http://schemas.datacontract.org/2004/07/System.Collections.Generic Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns2="http://schemas.datacontract.org/2004/07/System.Collections.Generic"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://Microsoft/Office/Server/FeedCache"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="ArrayOfKeyValuePairOfELEHsv SlRZJ">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValuePairOfELEHsv_SlRZJ"
type="tns2:KeyValuePairOfELEHsv_SlRZJ"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfKeyValuePairOfELEHsv SlRZJ" nillable="true"
type="tns2:ArrayOfKeyValuePairOfELEHsv_SlRZJ"/>
  <xs:complexType name="KeyValuePairOfELEHsv_SlRZJ">
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="key"
nillable="true" type="q1:E"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" name="value"
nillable="true" type="q1:LE"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="KeyValuePairOfELEHsv_SlRZJ" nillable="true"
type="tns2:KeyValuePairOfELEHsv SlRZJ"/>
</xs:schema>
```

7.6 http://Microsoft/Office/Server/UserProfiles Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q3="http://Microsoft/Office/Server/UserProfiles"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified" targetNamespace="http://Microsoft/Office/Server/UserProfiles"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="ArrayOfUserData">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="UserData" nillable="true"
type="q3:UserData"/>
    </xs:sequence>
  </xs:complexType>
```

```
  <xs:element name="ArrayOfUserData" nillable="true" type="q3:ArrayOfUserData"/>
  <xs:complexType name="UserData">
    <xs:sequence>
      <xs:element minOccurs="0" name="Department" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Email" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="EmailOptin" type="xs:int"/>
      <xs:element minOccurs="0" name="FeedIdentifier" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="FeedPrivacyActivity" type="xs:int"/>
      <xs:element minOccurs="0" name="IsPeopleListPublic" type="xs:boolean"/>
      <xs:element minOccurs="0" name="LastUpdate" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="MasterRecordID" type="xs:long"/>
      <xs:element minOccurs="0" name="NTName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="O15FirstRunExperience" type="xs:int"/>
      <xs:element minOccurs="0" name="PartitionID" type="ser:guid"/>
      <xs:element minOccurs="0" name="PersonalSiteCapabilities" type="xs:int"/>
      <xs:element minOccurs="0" name="PersonalSiteInstantiationState" type="xs:int"/>
      <xs:element minOccurs="0" name="PersonalSpace" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="PictureExchangeSyncState" type="xs:int"/>
      <xs:element minOccurs="0" name="PicturePlaceholderState" type="xs:int"/>
      <xs:element minOccurs="0" name="PictureTimestamp" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="PictureUrl" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="PreferredDataLocation" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="PreferredName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ProfileSubtypeID" type="xs:int"/>
      <xs:element minOccurs="0" name="RecordID" type="xs:long"/>
      <xs:element minOccurs="0" name="SID" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="SipAddress" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="StatusNote" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="UserID" type="ser:guid"/>
      <xs:element minOccurs="0" name="DelveFlags" type="xs:int"/>
      <xs:element minOccurs="0" name="HideFromAddressLists" type="xs:boolean"/>
      <xs:element minOccurs="0" name="OfficeGraphEnabled" type="xs:boolean"/>
      <xs:element minOccurs="0" name="PersonalSiteFirstCreationError" nillable="true"
type="xs:string"/>
      <xs:element minOccurs="0" name="PersonalSiteFirstCreationTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="PersonalSiteLastCreationTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="PersonalSiteNumberOfRetries" type="xs:int"/>
      <xs:element minOccurs="0" name="PulseMRUPeople" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="RecipientTypeDetails" type="xs:long"/>
      <xs:element minOccurs="0" name="UserType" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="UserData" nillable="true" type="q3:UserData"/>
</xs:schema>
```

7.7   http://schemas.datacontract.org/2004/07/System Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q5="http://schemas.datacontract.org/2004/07/System"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="ArrayOfNullableOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" nillable="true"
type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfNullableOfguid" nillable="true" type="q5:ArrayOfNullableOfguid"/>
</xs:schema>
```

7.8 http://Microsoft/Office/Server/FeedyCache Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns1="http://Microsoft/Office/Server/FeedyCache"
elementFormDefault="qualified" targetNamespace="http://Microsoft/Office/Server/FeedyCache"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://Microsoft/Office/Server/FeedCache"/>
  <xs:import namespace="http://Microsoft/Office/Server/UserProfiles"/>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/System"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:complexType name="FCCR">
    <xs:sequence>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0" name="EC"
nillable="true" type="q1:PC"/>
      <xs:element xmlns:q1="http://Microsoft/Office/Server/FeedCache" minOccurs="0" name="FC"
nillable="true" type="q1:ArrayOfEC"/>
      <xs:element xmlns:q3="http://Microsoft/Office/Server/UserProfiles" minOccurs="0"
name="P" nillable="true" type="q3:ArrayOfUserData"/>
      <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="S" nillable="true" type="q2:ArrayOfstring"/>
      <xs:element xmlns:q5="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="T" nillable="true" type="q5:ArrayOfNullableOfguid"/>
      <xs:element minOccurs="0" name="TN" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="TO" nillable="true" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="FCCR" nillable="true" type="tns1:FCCR"/>
</xs:schema>
```

8   Appendix C: Product Behavior

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

▪   Microsoft SharePoint Server 2013

▪   Microsoft SharePoint Server 2016

▪   Microsoft SharePoint Server 2019

▪   Microsoft SharePoint Server Subscription Edition

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

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

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

Section	Description	Revision class
8 Appendix C: Product Behavior	Updated list of supported products.	Major

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