[MS-UPSDWS]:

User Profile Social Data Web Service Protocol

version of this technology, there are risks in relying on this preliminary documentation. To the extent that you incur additional development obligations or any other costs as a result of relying on this preliminary documentation, you do so at your own risk.

Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Major	Updated and revised the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.05	Major	Significantly changed the technical content.
9/27/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
3/18/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	1.05	None	No changes to the meaning, language, or formatting of the technical content.
1/20/2012	2.0	Major	Significantly changed the technical content.
4/11/2012	2.0	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	2.0.1	Editorial	Changed language and formatting in the technical content.
9/12/2012	2.0.1	None	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	2.1	Minor	Clarified the meaning of the technical content.
2/11/2013	2.1	None	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	2.2	Minor	Clarified the meaning of the technical content.
11/18/2013	2.2	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	2.2	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	2.3	Minor	Clarified the meaning of the technical content.
7/31/2014	2.3	None	No changes to the meaning, language, or formatting of the technical content.

Date	Revision History	Revision Class	Comments
10/30/2014	2.3	None	No changes to the meaning, language, or formatting of the technical content.
3/16/2015	3.0	Major	Significantly changed the technical content.
2/26/2016	4.0	Major	Significantly changed the technical content.
7/15/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	4.0	None	No changes to the meaning, language, or formatting of the technical content.
7/24/2018	5.0	Major	Significantly changed the technical content.

Table of Contents

1 Introduction

The User Profile Social Data Web Service Protocol is used to add, remove, and retrieve user-provided data that facilitates social networking. These data are in the form of tags, notes, and ratings about documents, Web pages, and other types of items that are stored 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:

back-end database server: A server that hosts data, configuration settings, and stored procedures that are associated with one or more applications.

content database: A database that is stored on a **back-end database server** and contains stored procedures, site collections, and the contents of those site collections.

current user: The user who is authenticated during processing operations on a front-end web server or a **back-end database server**.

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

field: (1) An element or attribute in a data source that can contain data.

(2) A container for metadata within a SharePoint list and associated list items.

Hypertext Markup Language (HTML): An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [HTML].

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 item: An individual entry within a SharePoint list. Each list item has a schema that maps to fields in the list that contains the item, depending on the content type of the item.

site: A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and web site.

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 comment: A user-defined string that represents a user's remarks about a webpage or item on a SharePoint site or the Internet. Individual users create these comments and, by default, share them with other users.

social data: A collection of ratings, tags, and comments about webpages and items on a SharePoint site or the Internet. Individual users create this data and, by default, share it with other users.

social rating: A user-defined value that indicates the perceived quality of a webpage or item on a SharePoint site or the Internet. Individual users create these ratings and, by default, share them with other users.

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.

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

social tag URL: The address of a webpage or item on a SharePoint site or the Internet for which a user created a social tag.

social tag user: The user who created a **social tag**.

term: A concept or an idea that is stored and can be used as metadata.

term store: A database in which managed metadata is stored in the form of term sets and **terms**.

timestamp: A condition of a digital signature that indicates whether the signature was created with a valid certificate that has expired or was created with a certificate that had expired already. If the certificate expired after the signature was created, the signature can be trusted. If it expired before the signature was created, it cannot be trusted.

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

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.

[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

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

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

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

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

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

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

1.2.2 Informative References

None.

1.3 Overview

This protocol allows a protocol client to add, remove, and retrieve **social tags**, **social comments**, and **social ratings** for **documents**, Web pages, and other types of items that are stored on a protocol server. This protocol allows the protocol client to pass criteria to the protocol server and to receive a list of social tags, social comments, and social ratings.

A typical scenario for using this protocol is a social networking application. A social tag is a descriptive term that a user assigns to the content at a **Uniform Resource Identifier (URI)**. A social comment is a textual note that a user adds to a document or Web page. A social rating is a user's assessment, from one to five stars, of the quality of a document or **list item**. An application can use this protocol to add, remove, and retrieve social tags, social comments, and social ratings.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [SOAP1.1], [SOAP1.2/1] and [SOAP1.2/2]. It transmits those messages by using **HTTP**, as described in [RFC2616], or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [RFC2818].

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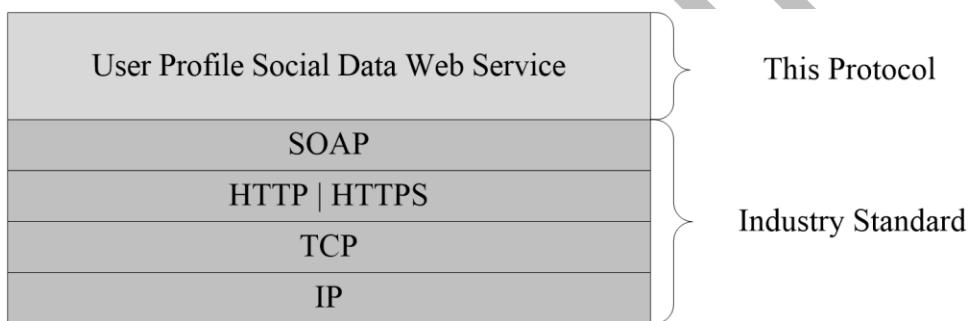
Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a **site** that is identified by a **Uniform Resource Locator (URL)** that is known by protocol clients. The protocol server endpoint is formed by appending "_vti_bin/socialdataservice.asmx" to the URL of the site, for example http://www.example.com/Repository/_vti_bin/socialdataservice.asmx.

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

1.6 Applicability Statement

This protocol was designed to support a scale point of approximately 2 million **user profiles** and an average of 500 social tags, 300 **social comments**, and 300 **social ratings** across all of those user profiles.

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

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

2.1 Transport

Protocol servers MUST support **SOAP** over **HTTP**. Protocol servers SHOULD additionally support SOAP over **HTTPS** to help secure communications with protocol clients.

Protocol messages MUST be formatted as specified in either [SOAP1.1] section 4 or [SOAP1.2/1] section 5. Server faults MUST be returned by using either 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.

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] and [XMLSCHEMA2], 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
http	http://schemas.xmlsoap.org/wsdl/http/	
s1	http://microsoft.com/wsdl/types/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
tns	http://microsoft.com/webservices/SharePointPortalServer/SocialDataService	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

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
ArrayOfDeletedSocialCommentDetail	The **ArrayOfDeletedSocialCommentDetail** complex type contains zero or more **DeletedSocialCommentDetail** elements.
ArrayOfDeletedSocialRatingDetail	The **ArrayOfDeletedSocialRatingDetail** complex type contains zero or more **DeletedSocialRatingDetail** elements.
ArrayOfDeletedSocialTagDetail	The **ArrayOfDeletedSocialTagDetail** complex type contains zero or more **DeletedSocialTagDetail** elements.
ArrayOfSocialCommentDetail	The **ArrayOfSocialCommentDetail** complex type contains zero or more **SocialCommentDetail** elements.
ArrayOfSocialRatingDetail	The **ArrayOfSocialRatingDetail** complex type contains zero or more **SocialRatingDetail** elements.
ArrayOfSocialTagDetail	The **ArrayOfSocialTagDetail** complex type contains zero or more **SocialTagDetail** elements.
ArrayOfSocialTermDetail	The **ArrayOfSocialTermDetail** complex type contains zero or more **SocialTermDetail** elements.
ArrayOfSocialUrlDetail	The **ArrayOfSocialUrlDetail** complex type contains zero or more **SocialUrlDetail** elements.
ArrayOfString	The **ArrayOfString** complex type contains zero or more strings.
DeletedSocialCommentDetail	The **DeletedSocialCommentDetail** complex type contains the data within and about a deleted **social comment**.
DeletedSocialDataDetail	The **DeletedSocialDataDetail** complex type contains the data within and about deleted **social data**. This is the base type for **DeletedSocialCommentDetail** (section 2.2.4.10), **DeletedSocialRatingDetail** (section 2.2.4.12) and **DeletedSocialTagDetail** (section 2.2.4.13) complex types.
DeletedSocialRatingDetail	The **DeletedSocialRatingDetail** complex type contains the data within and about a deleted **social rating**.
DeletedSocialTagDetail	The **DeletedSocialTagDetail** complex type contains the data within and about a deleted social tag.
SocialCommentDetail	The **SocialCommentDetail** complex type contains the data within and about a social comment.
SocialDataDetail	The **SocialDataDetail** complex type contains the data within and about social data. This is the base type for **SocialCommentDetail** (section 2.2.4.14), **SocialRatingDetail** (section 2.2.4.16) and **SocialTagDetail** (section 2.2.4.18) complex types.
SocialRatingDetail	The **SocialRatingDetail** complex type contains information about a social rating.

Complex type	Description
SocialReplicationData	The **SocialReplicationData** complex type contains information about current and deleted social tags, comments and ratings.
SocialTagDetail	The **SocialTagDetail** complex type contains information about a social tag.
SocialTermDetail	The **SocialTermDetail** complex type contains a term and count of a **social tag term**.
SocialUrlDetail	The **SocialUrlDetail** complex type contains a string in **URI** format and the count of social tags that are associated with that URI.
TermDetail	The **TermDetail** complex type contains information for a social tag term.

2.2.4.1 ArrayOfDeletedSocialCommentDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfDeletedSocialCommentDetail** complex type contains zero or more **DeletedSocialCommentDetail** elements.

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

DeletedSocialCommentDetail: A **DeletedSocialCommentDetail** complex type (section 2.2.4.10) that contains the deleted comment information.

2.2.4.2 ArrayOfDeletedSocialRatingDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfDeletedSocialRatingDetail** complex type contains zero or more **DeletedSocialRatingDetail** elements.

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

DeletedSocialRatingDetail: A **DeletedSocialRatingDetail** complex type (section 2.2.4.12) that contains the deleted rating information.

2.2.4.3 ArrayOfDeletedSocialTagDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfDeletedSocialTagDetail** complex type contains zero or more **DeletedSocialTagDetail** elements.

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

DeletedSocialTagDetail: A **DeletedSocialTagDetail** complex type (section 2.2.4.13) that contains the deleted tag information.

2.2.4.4 ArrayOfSocialCommentDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfSocialCommentDetail** complex type contains zero or more **SocialCommentDetail** elements.

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

SocialCommentDetail: A **SocialCommentDetail** complex type (section 2.2.4.14) that contains comment information.

2.2.4.5 ArrayOfSocialRatingDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfSocialRatingDetail** complex type contains zero or more **SocialRatingDetail** elements.

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

SocialRatingDetail: A **SocialRatingDetail** complex type (section 2.2.4.16) that contains the rating information.

2.2.4.6 ArrayOfSocialTagDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfSocialTagDetail** complex type contains zero or more **SocialTagDetail** elements.

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

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

SocialTagDetail: A **SocialTagDetail** complex type (section 2.2.4.18) that contains the tag information.

2.2.4.7 ArrayOfSocialTermDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfSocialTermDetail** complex type contains zero or more **SocialTermDetail** elements.

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

SocialTermDetail: A **SocialTermDetail** complex type (section 2.2.4.19) that contains the term information.

2.2.4.8 ArrayOfSocialUrlDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfSocialUrlDetail** complex type contains zero or more **SocialUrlDetail** elements.

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

SocialUrlDetail: A **SocialUrlDetail** complex type (section 2.2.4.20) that contains the **social tag URL** information.

2.2.4.9 ArrayOfString

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **ArrayOfString** complex type contains zero or more strings.

```
<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 string.

2.2.4.10 DeletedSocialCommentDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **DeletedSocialCommentDetail** complex type contains the data within and about a deleted **social comment**.

```
<xs:complexType name="DeletedSocialCommentDetail"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DeletedSocialDataDetail">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="LastModifiedTime" type="xs:dateTime"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

LastModifiedTime: A value containing the last modified time of the comment.

2.2.4.11 DeletedSocialDataDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **DeletedSocialDataDetail** complex type contains the data within and about deleted **social data**. This is the base type for **DeletedSocialCommentDetail** (section 2.2.4.10), **DeletedSocialRatingDetail** (section 2.2.4.12) and **DeletedSocialTagDetail** (section 2.2.4.13) complex types.

```
<xs:complexType name="DeletedSocialDataDetail" abstract="true"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Owner" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="DeletedTime" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

Url: A string type that specifies the **URL** that is associated with the social data.

Owner: A string type that specifies the owner account that is associated with the social data.

DeletedTime: A value containing the deleted time of the social data.

2.2.4.12 DeletedSocialRatingDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **DeletedSocialRatingDetail** complex type contains the data within and about a deleted **social rating**.

```
<xs:complexType name="DeletedSocialRatingDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DeletedSocialDataDetail"/>
  </xs:complexContent>
</xs:complexType>
```

2.2.4.13   DeletedSocialTagDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **DeletedSocialTagDetail** complex type contains the data within and about a deleted social tag.

```
<xs:complexType name="DeletedSocialTagDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DeletedSocialDataDetail">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="TermID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

TermID: A unique identifier for the term that was deleted.

2.2.4.14   SocialCommentDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialCommentDetail** complex type contains the data within and about a **social comment**.

```
<xs:complexType name="SocialCommentDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SocialDataDetail">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Comment" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="IsHighPriority" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Comment: A string type that contains the body of the social comment.

IsHighPriority: A Boolean flag that specifies the priority level of the social comment. A value of **true** indicates that the social comment is high priority. A value of **false** indicates that the social comment is normal priority.

2.2.4.15   SocialDataDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialDataDetail** complex type contains the data within and about **social data**. This is the base type for **SocialCommentDetail** (section 2.2.4.14), **SocialRatingDetail** (section 2.2.4.16) and **SocialTagDetail** (section 2.2.4.18) complex types.

```
<xs:complexType name="SocialDataDetail" abstract="true"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Owner" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="LastModifiedTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Title" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Url: A string type that specifies the **URL** that is associated with the social data.

Owner: A string type that specifies the owner account that is associated with the social data.

LastModifiedTime: A value containing the last modified time of the social data.

Title: A string type that contains the title of the social data.

2.2.4.16   SocialRatingDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialRatingDetail** complex type contains information about a **social rating**.

```
<xs:complexType name="SocialRatingDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SocialDataDetail">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Rating" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Rating: An integer type that specifies the rating value. The valid range for this value is 1 through 5. A value of 1 is a low rating, while a value of 5 is the highest rating possible.

2.2.4.17   SocialReplicationData

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialReplicationData** complex type contains information about current and deleted social tags, comments and ratings.

```
<xs:complexType name="SocialReplicationData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Tags" type="tns:ArrayOfSocialTagDetail"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Comments"
type="tns:ArrayOfSocialCommentDetail"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Ratings"
type="tns:ArrayOfSocialRatingDetail"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DeletedTags"
type="tns:ArrayOfDeletedSocialTagDetail"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DeletedComments"
type="tns:ArrayOfDeletedSocialCommentDetail"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DeletedRatings"
type="tns:ArrayOfDeletedSocialRatingDetail"/>
  </xs:sequence>
</xs:complexType>
```

Tags: An **ArrayOfSocialTagDetail** complex type (section 2.2.4.6) element that contains the social tags.

Comments: An **ArrayOfSocialCommentDetail** complex type (section 2.2.4.4) element that contains the **social comments**.

Ratings: An **ArrayOfSocialRatingDetail** complex type (section 2.2.4.5) element that contains the **social ratings**.

DeletedTags: An **ArrayOfDeletedSocialTagDetail** complex type (section 2.2.4.3) element that contains the deleted social tags.

DeletedComments: An **ArrayOfDeletedSocialCommentDetail** complex type (section 2.2.4.1) element that contains the deleted social comments.

DeletedRatings: An **ArrayOfDeletedSocialRatingDetail** complex type (section 2.2.4.2) element that contains the deleted social ratings.

2.2.4.18   SocialTagDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialTagDetail** complex type contains information about a social tag.

```
<xs:complexType name="SocialTagDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SocialDataDetail">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Term" type="tns:TermDetail"/>
        <xs:element minOccurs="1" maxOccurs="1" name="IsPrivate" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Term: A **TermDetail** complex type (section 2.2.4.21) that contains term information for the social tag.

IsPrivate: A Boolean value that specifies whether the **social tag** is private. A value of **true** is used to specify that the social tag is private. A value of **false** is used to specify that the social tag is not private.

2.2.4.19   SocialTermDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialTermDetail** complex type contains a term and count of a **social tag term**.

```
<xs:complexType name="SocialTermDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Term" type="tns:TermDetail"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Count" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
```

Term: A **TermDetail** complex type (section 2.2.4.21) that contains a social tag term.

Count: A **long** type that specifies the number of **social data** elements that contain the **Term** for the given results.

2.2.4.20   SocialUrlDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialUrlDetail** complex type contains a string in **URI** format and the count of social tags that are associated with that URI.

```
<xs:complexType name="SocialUrlDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Count" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
```

Url: A string that specifies the **URL** that is associated with the **SocialUrlDetail**.

Count: A **long** type that specifies the number of **social data** elements that contain the **Url** for the given results.

2.2.4.21   TermDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **TermDetail** complex type contains information for a **social tag term**.

```
<xs:complexType name="TermDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Id"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Id: A GUID type that specifies an identifier for the **term**.

Name: A string that contains the name of the social tag term.

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
guid	The **guid** simple type is a string that matches the following pattern. The **guid** simple type is from the namespace http://microsoft.com/wsdl/types/.

2.2.5.1 guid

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

The **guid** simple type is a string that matches the following pattern. The **guid** simple type is from the namespace http://microsoft.com/wsdl/types/.

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

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

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

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 made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret **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 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 notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults as specified in this section.

3.1 Server Details

3.1.1 Abstract Data Model

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

3.1.1.1 Social Tags

This protocol enables users to add descriptive keywords to **documents** and Web pages that were published with a **URI**. The tags are stored on a **back-end database server** and are not part of the document or Web page with which they are associated. Each social tag has an identifier, which is retrieved from a **term store**, and is associated with a **URL**. Other information that is stored on a back-end database server includes the person who applied the social tag, a flag that specifies whether the tag is visible only to the person who applied the social tag, and the date when the social tag was last modified.

3.1.1.2 Notes (Social Comments)

This protocol enables users to add textual comments to **documents** and Web pages that were published with a **URI**. The comments are stored on a **back-end database server** and are not part of the document or Web page with which they are associated. Each comment has an identifier and is associated with a URI. Other information that is stored on a back-end database server includes the author of the comment and the date when the comment was last modified.

3.1.1.3 Ratings

This protocol enables users to rate **documents** and **list items** that are stored on a protocol server. The ratings scale is from one to five stars, inclusive. Ratings are stored on a **back-end database server** and are not part of the documents or list items with which they are associated. Ratings are aggregated on a per item basis. The number of people who rated an item and the average rating for that item is calculated periodically and stored in a **content database**. Each rating has an identifier and is associated with a **URI**. Other information that is stored on a back-end database server includes the author of the rating and the date when the rating was last modified.

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
AddComment	The **AddComment** operation creates an association between a **social comment** and a specified **URI** for the **current user**.
AddTag	The **AddTag** operation creates an association between a social tag and a specified URI, for the current user.
AddTagByKeyword	The **AddTagByKeyword** operation creates an association between a social tag and a specified URI, for the current user.
CountCommentsOfUser	The **CountCommentsOfUser** operation retrieves the total number of social comments for a specified **user profile**.
CountCommentsOfUserOnUrl	The **CountCommentsOfUserOnUrl** operation retrieves the total number of social comments for a specified user profile and a specified URI.
CountCommentsOnUrl	The **CountCommentsOnUrl** operation retrieves the total number of social comments for a specified URI.
CountRatingsOnUrl	The **CountRatingsOnUrl** operation retrieves the total number of **social ratings** for a specified URI.
CountTagsOfUser	The **CountTagsOfUser** operation retrieves the total number of **social tags** for a specified user profile.
DeleteComment	The **DeleteComment** operation deletes a social comment that is associated with the current user, stored at a specified URI, and was last modified at a specified time.
DeleteRating	The **DeleteRating** operation deletes a social rating that is associated with the current user for a specified URI.
DeleteTag	The **DeleteTag** operation deletes the social tag that is associated with the current user and for the specified URI and **social tag term** identifier.
DeleteTagByKeyword	The **DeleteTagByKeyword** operation deletes a social tag based

Operation	Description
	on a keyword parameter, the current user, and a specified URI.
DeleteTags	The **DeleteTags** operation deletes all of the social tags that are associated with the current user for a specified URI.
GetAllTagTerms	The **GetAllTagTerms** operation retrieves all social tag terms.
GetAllTagTermsForUrlFolder	The **GetAllTagTermsForUrlFolder** operation retrieves all social tag terms for a given Url.
GetAllTagUrls	The **GetAllTagUrls** operation retrieves all of the **social tag URLs** that are associated with a specified social tag term.
GetAllTagUrlsByKeyword	The **GetAllTagUrlsByKeyword** operation retrieves all of the social tag URLs that are associated with a specified social tag term.
GetCommentsOfUser	The **GetCommentsOfUser** operation retrieves the social comments that are associated with a specified user profile.
GetCommentsOfUserOnUrl	The **GetCommentsOfUserOnUrl** operation retrieves the social comments that are associated with a specified user profile and for a specified URI.
GetCommentsOnUrl	The **GetCommentsOnUrl** operation retrieves all of the social comments for a specified URI and for a specified set of parameters.
GetRatingAverageOnUrl	The **GetRatingAverageOnUrl** operation retrieves the average social rating for the item at a specified URI.
GetRatingOfUserOnUrl	The **GetRatingOfUserOnUrl** operation retrieves a social rating that is associated with a specified user profile and for a specified URI.
GetRatingOnUrl	The **GetRatingOnUrl** operation retrieves a social rating that was added by the current user for a specified URI.
GetRatingsOfUser	The **GetRatingsOfUser** operation retrieves the social ratings that are associated with a specified user profile.
GetRatingsOnUrl	The **GetRatingsOnUrl** operation retrieves all of the social ratings for a specified URI.
GetSocialDataForFullReplication	The **GetSocialDataForFullReplication** operation retrieves the list of existing social comments, social tags and social ratings for a specified user profile for use when replicating the **social data**.
GetSocialDataForIncrementalReplication	The **GetSocialDataForIncrementalReplication** operation retrieves the list of existing and deleted social comments, social tags and social ratings for a specified time period.
GetTags	The **GetTags** operation retrieves the social tags that were created by the current user for a specified **URL**.
GetTagsOfUser	The **GetTagsOfUser** operation retrieves the social tags that were added by a specified user.
GetTagTerms	The **GetTagTerms** operation retrieves only social tag terms that were authored by the current user.
GetTagTermsOfUser	The **GetTagTermsOfUser** operation retrieves the social tag terms that were authored by a specific **social tag user**. The

Operation	Description
	result set can be limited to a maximum number of items.
GetTagTermsOnUrl	The **GetTagTermsOnUrl** operation retrieves the social tag terms for a specified social tag URL.
GetTagUrls	The **GetTagUrls** operation retrieves the social tag URLs that were tagged by the current user with a specified social tag term.
GetTagUrlsByKeyword	The **GetTagUrlsByKeyword** operation retrieves the social tag URLs, tagged with a specified keyword, which are associated to the current user.
GetTagUrlsOfUser	The **GetTagUrlsOfUser** operation retrieves the social tag URLs that are associated with a specified social tag term and were added by a specified social tag user.
GetTagUrlsOfUserByKeyword	The **GetTagUrlsOfUserByKeyword** operation retrieves the social tag URLs that are associated with a specified social tag term and were added by a specified social tag user.
PropagateRating	The **PropagateRating** operation triggers a recalculation of the current, average social rating for the specified URI that points to a protocol server **list item** and it stores that new value in the **Rating field (2)**.
ReplicateFullSocialData	The **ReplicateFullSocialData** operation replicates the specified social comments, social tags and social ratings for a specified user profile to the server.
ReplicateIncrementalSocialData	The **ReplicateIncrementalSocialData** operation replicates the specified existing and deleted social comments, social tags and social ratings to the server.
SetRating	The **SetRating** operation specifies a social rating by the current user for a specified URI.
UpdateComment	The **UpdateComment** operation updates an existing social comment at a specified URI that was created by the calling user with the specified last modified time.

3.1.4.1 AddComment

The **AddComment** operation creates an association between a **social comment** and a specified **URI** for the **current user**.

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

```
<wsdl:operation name="AddComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddCommentSoapIn"/>
  <wsdl:output message="tns:AddCommentSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **AddCommentSoapIn** request message (section 3.1.4.1.1.1) and the protocol server responds with an **AddCommentSoapOut** response message (section 3.1.4.1.1.2).

The protocol server MUST associate the social comment with the **user profile** of the current user. The protocol server MUST ensure that the saved social comment body is escaped for **Hypertext Markup Language (HTML)** output.

3.1.4.1.1 Messages

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

Message	Description
AddCommentSoapIn	The request WSDL message for the **AddComment WSDL operation**.
AddCommentSoapOut	The response WSDL message for the **AddComment** WSDL operation.

3.1.4.1.1.1   AddCommentSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/AddComment
```

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

3.1.4.1.1.2   AddCommentSoapOut

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

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

3.1.4.1.2 Elements

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

Element	Description
AddComment	The input data for the **AddComment WSDL operation**.
AddCommentResponse	The result data for the **AddComment** WSDL operation.

3.1.4.1.2.1   AddComment

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

```
<xs:element name="AddComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="comment" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="isHighPriority" nillable="true"
type="xs:boolean"/>
      <xs:element minOccurs="0" maxOccurs="1" name="title" type="xs:string"/>
    </xs:sequence>

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

url: A string type that specifies the **URI** of the item to associate with the **social comment**. This value MUST be fewer than 2085 characters, and MUST be URI format.

comment: A string type that contains the body of the social comment. This value MUST contain more than zero characters and fewer than 4001 characters.

isHighPriority: A Boolean type that specifies the priority level of the social comment. A value of **true** indicates that the social comment is high priority. A value of **false** indicates that the social comment is normal priority.

title: A string type that specifies the title of the social comment, as it appears to users. This value MUST be fewer than 501 characters.

3.1.4.1.2.2   AddCommentResponse

The **AddCommentResponse** element specifies the result data for the **AddComment WSDL operation**.

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

AddCommentResult: A **SocialCommentDetail** complex type (section 2.2.4.14), that contains the new **social comment**.

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 AddTag

The **AddTag** operation creates an association between a social tag and a specified **URI**, for the **current user**.

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

```
<wsdl:operation name="AddTag" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```
<wsdl:input message="tns:AddTagSoapIn"/>
  <wsdl:output message="tns:AddTagSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **AddTagSoapIn** request message (section 3.1.4.2.1.1) and the protocol server responds with an **AddTagSoapOut** response message (section 3.1.4.2.1.2).

The protocol server MUST associate the social tag with the **user profile** of the current user.

If no **social tag term** exists for the specified **termID** (see section 3.1.4.2.2.1), the protocol server MUST send a **SOAP fault** message.

3.1.4.2.1 Messages

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

Message	Description
AddTagSoapIn	The request WSDL message for the **AddTag WSDL operation**.
AddTagSoapOut	The response WSDL message for the **AddTag** WSDL operation.

3.1.4.2.1.1   AddTagSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/AddTag
```

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

3.1.4.2.1.2   AddTagSoapOut

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

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

3.1.4.2.2 Elements

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

Element	Description
AddTag	The input data for the **AddTag WSDL operation**.
AddTagResponse	The result data for the **AddTag** WSDL operation.

3.1.4.2.2.1   AddTag

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

```
<xs:element name="AddTag" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="termID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
      <xs:element minOccurs="0" maxOccurs="1" name="title" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="isPrivate" nillable="true"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to associate with the social tag. This value MUST be fewer than or equal to 2,084 characters, and MUST be URI format.

termID: A GUID type that identifies the **social tag term** to associate with the URI, as defined by the **Id** value of an existing **TermDetail** complex type (section 2.2.4.21).

title: A string type that specifies the title of the social tag, as it appears to users. This value MUST be fewer than or equal to 500 characters.

isPrivate: A Boolean type that is used to determine the visibility of the social tag. For a value of **true**, the protocol server MUST ensure the tag is visible only to the **current user**. For a value of **false** or null, the protocol server MUST ensure the tag is publicly visible.

3.1.4.2.2.2   AddTagResponse

The **AddTagResponse** element specifies the result data for the **AddTag WSDL operation**.

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

AddTagResult: A **SocialTagDetail** complex type (section 2.2.4.18) that contains the new social tag.

3.1.4.2.3 Complex Types

None.

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 AddTagByKeyword

The **AddTagByKeyword** operation creates an association between a social tag and a specified **URI**, for the **current user**.

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

```
<wsdl:operation name="AddTagByKeyword" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddTagByKeywordSoapIn"/>
  <wsdl:output message="tns:AddTagByKeywordSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **AddTagByKeywordSoapIn** request message (section 3.1.4.3.1.1) and the protocol server responds with an **AddTagByKeywordSoapOut** response message (section 3.1.4.3.1.2).

The protocol server MUST associate the social tag with the **user profile** of the current user.

If no **social tag term** exists for the specified keyword, the protocol server MUST create it.

3.1.4.3.1 Messages

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

Message	Description
AddTagByKeywordSoapIn	The request WSDL message for the **AddTagByKeyword WSDL operation**.
AddTagByKeywordSoapOut	The response WSDL message for the **AddTagByKeyword** WSDL operation.

3.1.4.3.1.1   AddTagByKeywordSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/AddTagByKeyword
```

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

3.1.4.3.1.2   AddTagByKeywordSoapOut

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

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

3.1.4.3.2 Elements

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

Element	Description
AddTagByKeyword	The input data for the **AddTagByKeyword WSDL operation**.
AddTagByKeywordResponse	The result data for the **AddTagByKeyword** WSDL operation.

3.1.4.3.2.1 AddTagByKeyword

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

```
<xs:element name="AddTagByKeyword" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keyword" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="title" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="isPrivate" nillable="true"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to associate the social tag with. This value MUST be fewer than or equal to 2,084 characters, and MUST be URI format.

keyword: A string type that specifies the value of the **social tag term** and matches the **Name** value of an existing **TermDetail** complex type (section 2.2.4.21).

title: A string type that specifies the title of the social tag, as it appears to users. This value MUST be fewer than or equal to 500 characters.

isPrivate: A Boolean type that is used to determine the visibility of the social tag. For a value of **true**, the protocol server MUST ensure the tag is visible only to the **current user**. For a value of **false** or **null**, the protocol server MUST ensure the tag is publicly visible.

3.1.4.3.2.2 AddTagByKeywordResponse

The **AddTagByKeywordResponse** element specifies the result data for the **AddTagByKeyword WSDL operation**.

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

AddTagByKeywordResult: A **SocialTagDetail** complex type (section 2.2.4.18) that contains the new social tag.

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 CountCommentsOfUser

The **CountCommentsOfUser** operation retrieves the total number of **social comments** for a specified **user profile**.

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

```
<wsdl:operation name="CountCommentsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:CountCommentsOfUserSoapIn"/>
  <wsdl:output message="tns:CountCommentsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **CountCommentsOfUserSoapIn** request message (section 3.1.4.4.1.1) and the protocol server responds with a **CountCommentsOfUserSoapOut** response message (section 3.1.4.4.1.2).

If the specified user profile does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.4.1 Messages

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

Message	Description
CountCommentsOfUserSoapIn	The request WSDL message for the **CountCommentsOfUser WSDL operation**.
CountCommentsOfUserSoapOut	The response WSDL message for the **CountCommentsOfUser** WSDL operation.

3.1.4.4.1.1 CountCommentsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCommentsOfUser
```

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

3.1.4.4.1.2 CountCommentsOfUserSoapOut

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

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

3.1.4.4.2 Elements

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

Element	Description
CountCommentsOfUser	The input data for the **CountCommentsOfUser WSDL operation**.
CountCommentsOfUserResponse	The result data for the **CountCommentsOfUser** WSDL operation.

3.1.4.4.2.1 CountCommentsOfUser

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

```
<xs:element name="CountCommentsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to get the count of **social comments** for.

3.1.4.4.2.2 CountCommentsOfUserResponse

The **CountCommentsOfUserResponse** element specifies the result data for the **CountCommentsOfUser WSDL operation**.

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

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

CountCommentsOfUserResult: An integer type that indicates the total number of **social comments** that are associated with the specified **user profile**. If the comment count is zero or if the protocol server fails to retrieve the count of social comments for the specific user, the protocol server MUST return zero.

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 CountCommentsOfUserOnUrl

The **CountCommentsOfUserOnUrl** operation retrieves the total number of **social comments** for a specified **user profile** and a specified **URI**.

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

```
<wsdl:operation name="CountCommentsOfUserOnUrl"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:CountCommentsOfUserOnUrlSoapIn"/>
  <wsdl:output message="tns:CountCommentsOfUserOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **CountCommentsOfUserOnUrlSoapIn** request message (section 3.1.4.5.1.1) and the protocol server responds with a **CountCommentsOfUserOnUrlSoapOut** response message (section 3.1.4.5.1.2).

If the specified user profile does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.5.1 Messages

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

Message	Description
CountCommentsOfUserOnUrlSoapIn	The request WSDL message for the **CountCommentsOfUserOnUrl WSDL operation**.
CountCommentsOfUserOnUrlSoapOut	The response WSDL message for the **CountCommentsOfUserOnUrl** WSDL operation.

3.1.4.5.1.1 CountCommentsOfUserOnUrlSoapIn

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

The **SOAP action** value is:

http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCommentsOfUser
OnUrl

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

3.1.4.5.1.2 CountCommentsOfUserOnUrlSoapOut

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

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

3.1.4.5.2 Elements

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

Element	Description
CountCommentsOfUserOnUrl	The input data for the **CountCommentsOfUserOnUrl WSDL operation**.
CountCommentsOfUserOnUrlResponse	The result data for the **CountCommentsOfUserOnUrl** WSDL operation.

3.1.4.5.2.1 CountCommentsOfUserOnUrl

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

```
<xs:element name="CountCommentsOfUserOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve the count of **social comments** for.

url: A string type that specifies the **URI** to retrieve the count of social comments for. This value MUST be fewer than or equal to 2,084 characters, and MUST be URI format.

3.1.4.5.2.2 CountCommentsOfUserOnUrlResponse

The **CountCommentsOfUserOnUrlResponse** element specifies the result data for the **CountCommentsOfUserOnUrl WSDL operation**.

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

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

CountCommentsOfUserOnUrlResult: An integer type that specifies the total number of **social comments** for the specified **user profile** and for the specified **URI**. If the protocol server cannot find the count of social comments, the protocol server MUST return zero.

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 CountCommentsOnUrl

The **CountCommentsOnUrl** operation retrieves the total number of **social comments** for a specified **URI**.

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

```
<wsdl:operation name="CountCommentsOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:CountCommentsOnUrlSoapIn"/>
  <wsdl:output message="tns:CountCommentsOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **CountCommentsOnUrlSoapIn** request message (section 3.1.4.6.1.1) and the protocol server responds with a **CountCommentsOnUrlSoapOut** response message (section 3.1.4.6.1.2).

3.1.4.6.1 Messages

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

Message	Description
CountCommentsOnUrlSoapIn	The request WSDL message for the **CountCommentsOnUrl WSDL operation**.
CountCommentsOnUrlSoapOut	The response WSDL message for the **CountCommentsOnUrl** WSDL operation.

3.1.4.6.1.1 CountCommentsOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCommentsOnUrl
```

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

3.1.4.6.1.2 CountCommentsOnUrlSoapOut

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

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

3.1.4.6.2 Elements

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

Element	Description
CountCommentsOnUrl	The input data for the **CountCommentsOnUrl WSDL operation**.
CountCommentsOnUrlResponse	The result data for the **CountCommentsOnUrl** WSDL operation.

3.1.4.6.2.1 CountCommentsOnUrl

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

```
<xs:element name="CountCommentsOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to retrieve the count of **social comments** for. The value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.6.2.2 CountCommentsOnUrlResponse

The **CountCommentsOnUrlResponse** element specifies the result data for the **CountCommentsOnUrl WSDL operation**.

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

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

CountCommentsOnUrlResult: An integer that represents the total number of **social comments** at the specified **URI**. If the protocol server cannot find the count of social comments, the protocol server MUST return zero.

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 CountRatingsOnUrl

The **CountRatingsOnUrl** operation retrieves the total number of **social ratings** for a specified **URI**.

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

```
<wsdl:operation name="CountRatingsOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:CountRatingsOnUrlSoapIn"/>
  <wsdl:output message="tns:CountRatingsOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **CountRatingsOnUrlSoapIn** request message section 3.1.4.7.1.1() and the protocol server responds with a **CountRatingsOnUrlSoapOut** response message (section 3.1.4.7.1.2).

3.1.4.7.1 Messages

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

Message	Description
CountRatingsOnUrlSoapIn	The request WSDL message for the **CountRatingsOnUrl WSDL operation**.
CountRatingsOnUrlSoapOut	The response WSDL message for the **CountRatingsOnUrl** WSDL operation.

3.1.4.7.1.1 CountRatingsOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountRatingsOnUrl
```

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

3.1.4.7.1.2 CountRatingsOnUrlSoapOut

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

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

3.1.4.7.2 Elements

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

Element	Description
CountRatingsOnUrl	The input data for the **CountRatingsOnUrl WSDL operation**.
CountRatingsOnUrlResponse	The result data for the **CountRatingsOnUrl** WSDL operation.

3.1.4.7.2.1 CountRatingsOnUrl

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

```
<xs:element name="CountRatingsOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to retrieve the count of **social ratings** for. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.7.2.2 CountRatingsOnUrlResponse

The **CountRatingsOnUrlResponse** element specifies the result data for the **CountRatingsOnUrl WSDL operation**.

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

CountRatingsOnUrlResult: An integer type that represents the total number of **social ratings** for the specified **URI**. If the protocol server cannot find the count of social ratings, the protocol server MUST return zero.

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 CountTagsOfUser

The **CountTagsOfUser** operation retrieves the total number of **social tags** for a specified **user profile**.

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

```
<wsdl:operation name="CountTagsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:CountTagsOfUserSoapIn"/>
  <wsdl:output message="tns:CountTagsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **CountTagsOfUserSoapIn** request message (section 3.1.4.8.1.1) and the protocol server responds with a **CountTagsOfUserSoapOut** response message (section 3.1.4.8.1.2).

If the name of the **current user** is equal to the value of the specified **userAccountName** or the current user is an administrator, the protocol server MUST return the count of both private social tags and public social tags which is determined by the **IsPrivate field (1)** of the tag (see section 2.2.4.18). If the name of the current user is not equal to the value of the specified **userAccountName** and the current user is not an administrator, the protocol server MUST return the count of public social tags only.

3.1.4.8.1 Messages

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

Message	Description
CountTagsOfUserSoapIn	The request WSDL message for the **CountTagsOfUser WSDL operation**.
CountTagsOfUserSoapOut	The response WSDL message for the **CountTagsOfUser** WSDL operation.

3.1.4.8.1.1 CountTagsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountTagsOfUser
```

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

3.1.4.8.1.2 CountTagsOfUserSoapOut

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

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

3.1.4.8.2 Elements

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

Element	Description
CountTagsOfUser	The input data for the **CountTagsOfUser WSDL operation**.
CountTagsOfUserResponse	The result data for the **CountTagsOfUser** WSDL operation.

3.1.4.8.2.1 CountTagsOfUser

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

```
<xs:element name="CountTagsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve the count of social tags for.

3.1.4.8.2.2 CountTagsOfUserResponse

The **CountTagsOfUserResponse** element specifies the result data for the **CountTagsOfUser WSDL operation**.

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

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

CountTagsOfUserResult: An integer type that represents the total number of social tags for the specified **user profile**. If the protocol server cannot find the count of social tags for the specified user, the protocol server MUST return zero.

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 DeleteComment

The **DeleteComment** operation deletes a **social comment** that is associated with the **current user**, stored at a specified **URI**, and was last modified at a specified time.

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

```
<wsdl:operation name="DeleteComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DeleteCommentSoapIn"/>
  <wsdl:output message="tns:DeleteCommentSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **DeleteCommentSoapIn** request message (section 3.1.4.9.1.1) and the protocol server responds with a **DeleteCommentSoapOut** response message (section 3.1.4.9.1.2).

The protocol server MUST delete only the social comment that is associated with the current user, is associated with the specified URI, and was last modified at the specified time.

3.1.4.9.1 Messages

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

Message	Description
DeleteCommentSoapIn	The request WSDL message for the **DeleteComment WSDL operation**.
DeleteCommentSoapOut	The response WSDL message for the **DeleteComment** WSDL operation.

3.1.4.9.1.1 DeleteCommentSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteComment
```

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

3.1.4.9.1.2 DeleteCommentSoapOut

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

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

3.1.4.9.2 Elements

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

Element	Description
DeleteComment	The input data for the **DeleteComment WSDL operation**.
DeleteCommentResponse	The result data for the **DeleteComment** WSDL operation.

3.1.4.9.2.1 DeleteComment

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

```
<xs:element name="DeleteComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="lastModifiedTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** that is associated with the **social comment** to delete. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

lastModifiedTime: A dateTime value that specifies when the social comment to delete was last modified.

3.1.4.9.2.2 DeleteCommentResponse

The **DeleteCommentResponse** element specifies the result data for the **DeleteComment WSDL operation**.

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

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

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   DeleteRating

The **DeleteRating** operation deletes a **social rating** that is associated with the **current user** for a specified **URI**.

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

```
<wsdl:operation name="DeleteRating" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DeleteRatingSoapIn"/>
  <wsdl:output message="tns:DeleteRatingSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **DeleteRatingSoapIn** request message (section 3.1.4.10.1.1) and the protocol server responds with a **DeleteRatingSoapOut** response message (section 3.1.4.10.1.2).

The protocol server MUST delete only the social rating that is associated with both the current user and the specified URI.

3.1.4.10.1   Messages

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

Message	Description
DeleteRatingSoapIn	The request WSDL message for the **DeleteRating WSDL operation**.
DeleteRatingSoapOut	The response WSDL message for the **DeleteRating** WSDL operation.

3.1.4.10.1.1 DeleteRatingSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteRating
```

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

3.1.4.10.1.2 DeleteRatingSoapOut

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

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

3.1.4.10.2 Elements

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

Element	Description
DeleteRating	The input data for the **DeleteRating WSDL operation**.
DeleteRatingResponse	The result data for the **DeleteRating** WSDL operation.

3.1.4.10.2.1 DeleteRating

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

```
<xs:element name="DeleteRating" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** that is associated with the **social rating** to delete. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.10.2.2 DeleteRatingResponse

The **DeleteRatingResponse** element specifies the result data for the **DeleteRating WSDL operation**.

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

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 DeleteTag

The **DeleteTag** operation deletes the social tag that is associated with the **current user** and for the specified **URI** and **social tag term** identifier.

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

```
<wsdl:operation name="DeleteTag" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DeleteTagSoapIn"/>
  <wsdl:output message="tns:DeleteTagSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **DeleteTagSoapIn** request message (section 3.1.4.11.1.1) and the protocol server responds with a **DeleteTagSoapOut** response message (section 3.1.4.11.1.2).

The protocol server MUST delete only the social tag that is associated with the current user and for the specified URI and social tag term identifier.

If no social tag term exists for the specified **termID** (see section 3.1.4.11.2.1), the protocol server MUST send a **SOAP fault** message.

3.1.4.11.1 Messages

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

Message	Description
DeleteTagSoapIn	The request WSDL message for the **DeleteTag WSDL operation**.
DeleteTagSoapOut	The response WSDL message for the **DeleteTag** WSDL operation.

3.1.4.11.1.1 DeleteTagSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteTag
```

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

3.1.4.11.1.2 DeleteTagSoapOut

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

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

3.1.4.11.2 Elements

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

Element	Description
DeleteTag	The input data for the **DeleteTag WSDL operation**.
DeleteTagResponse	The result data for the **DeleteTag** WSDL operation.

3.1.4.11.2.1 DeleteTag

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

```
<xs:element name="DeleteTag" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="termID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** that is associated with the social tag to delete. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

termID: A GUID type that identifies the **social tag term**. This value is the same as the **Id** value of the **TermDetail** complex type (section 2.2.4.21) for the term.

3.1.4.11.2.2 DeleteTagResponse

The **DeleteTagResponse** element specifies the result data for the **DeleteTag WSDL operation**.

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

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 DeleteTagByKeyword

The **DeleteTagByKeyword** operation deletes a social tag based on a keyword parameter, the **current user**, and a specified **URI**.

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

```
<wsdl:operation name="DeleteTagByKeyword" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DeleteTagByKeywordSoapIn"/>
  <wsdl:output message="tns:DeleteTagByKeywordSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **DeleteTagByKeywordSoapIn** request message (section 3.1.4.12.1.1) and the protocol server responds with a **DeleteTagByKeywordSoapOut** response message (section 3.1.4.12.1.2).

The protocol server MUST delete only that social tag which is identified by the specified keyword and is associated with the current user for the specified URI.

If a **social tag term** does not exist for the specified keyword, the protocol server MUST send a **SOAP fault** message.

3.1.4.12.1 Messages

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

Message	Description
DeleteTagByKeywordSoapIn	The request WSDL message for the **DeleteTagByKeyword WSDL operation**.
DeleteTagByKeywordSoapOut	The response WSDL message for the **DeleteTagByKeyword** WSDL operation.

3.1.4.12.1.1 DeleteTagByKeywordSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteTagByKeyword
```

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

3.1.4.12.1.2 DeleteTagByKeywordSoapOut

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

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

3.1.4.12.2 Elements

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

Element	Description
DeleteTagByKeyword	The input data for the **DeleteTagByKeyword WSDL operation**.
DeleteTagByKeywordResponse	The result data for the **DeleteTagByKeyword** WSDL operation.

3.1.4.12.2.1 DeleteTagByKeyword

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

```
<xs:element name="DeleteTagByKeyword" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keyword" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** that is associated with the social tag to delete. This value MUST be fewer than 2,085 characters and MUST be URI format.

keyword: A string type that contains the keyword that identifies the **social tag term**. The value of this element MUST be the same as the value of the **Name** element of an existing **TermDetail** complex type (section 2.2.4.21).

3.1.4.12.2.2 DeleteTagByKeywordResponse

The **DeleteTagByKeywordResponse** element specifies the result data for the **DeleteTagByKeyword WSDL operation**.

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

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 DeleteTags

The **DeleteTags** operation deletes all of the social tags that are associated with the **current user** for a specified **URI**.

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

```
<wsdl:operation name="DeleteTags" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DeleteTagsSoapIn"/>
  <wsdl:output message="tns:DeleteTagsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **DeleteTagsSoapIn** request message (section 3.1.4.13.1.1) and the protocol server responds with a **DeleteTagsSoapOut** response message (section 3.1.4.13.1.2).

The protocol server MUST delete only those social tags that are associated with both the current user and the specified URI.

3.1.4.13.1 Messages

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

Message	Description
DeleteTagsSoapIn	The request WSDL message for the **DeleteTags WSDL operation**.
DeleteTagsSoapOut	The response WSDL message for the **DeleteTags** WSDL operation.

3.1.4.13.1.1 DeleteTagsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteTags
```

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

3.1.4.13.1.2 DeleteTagsSoapOut

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

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

3.1.4.13.2 Elements

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

Element	Description
DeleteTags	The input data for the **DeleteTags WSDL operation**.
DeleteTagsResponse	The result data for the **DeleteTags** WSDL operation.

3.1.4.13.2.1 DeleteTags

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

```
<xs:element name="DeleteTags" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to delete the social tags from. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.13.2.2 DeleteTagsResponse

The **DeleteTagsResponse** element specifies the result data for the **DeleteTags WSDL operation**.

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

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 GetAllTagTerms

The **GetAllTagTerms** operation retrieves all **social tag terms**.

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

```
<wsdl:operation name="GetAllTagTerms" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetAllTagTermsSoapIn"/>
  <wsdl:output message="tns:GetAllTagTermsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetAllTagTermsSoapIn** request message (section 3.1.4.14.1.1) and the protocol server responds with a **GetAllTagTermsSoapOut** response message (section 3.1.4.14.1.2).

3.1.4.14.1 Messages

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

Message	Description
GetAllTagTermsSoapIn	The request WSDL message for the **GetAllTagTerms WSDL operation**.
GetAllTagTermsSoapOut	The response WSDL message for the **GetAllTagTerms** WSDL operation.

3.1.4.14.1.1 GetAllTagTermsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetAllTagTerms
```

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

3.1.4.14.1.2 GetAllTagTermsSoapOut

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

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

3.1.4.14.2 Elements

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

Element	Description
GetAllTagTerms	The input data for the **GetAllTagTerms WSDL operation**.
GetAllTagTermsResponse	The result data for the **GetAllTagTerms** WSDL operation.

3.1.4.14.2.1 GetAllTagTerms

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

```
<xs:element name="GetAllTagTerms" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

maximumItemsToReturn: An integer type that specifies the maximum number of items to return. This value MUST be greater than or equal to zero ("0") or null. When zero or null is passed, the protocol server MUST return a maximum of 1000 results.

3.1.4.14.2.2 GetAllTagTermsResponse

The **GetAllTagTermsResponse** element specifies the result data for the **GetAllTagTerms WSDL operation**.

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

GetAllTagTermsResult: An **ArrayOfSocialTermDetail** complex type (section 2.2.4.7), that contains the results in descending order on the **SocialTermDetail Count** value. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag term**, up to any maximum number of entries, as defined by the value of the **maximumItemsToReturn** element (see section 3.1.4.14.2.1). The protocol server MUST trim the results by removing all elements after the first N elements, where N is specified by the value of the **maximumItemsToReturn** element.

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 GetAllTagTermsForUrlFolder

The **GetAllTagTermsForUrlFolder** operation retrieves all **social tag terms** for a given Url.

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

```
<wsdl:operation name="GetAllTagTermsForUrlFolder"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetAllTagTermsForUrlFolderSoapIn"/>
  <wsdl:output message="tns:GetAllTagTermsForUrlFolderSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetAllTagTermsForUrlFolderSoapIn** request message (section 3.1.4.15.1.1) and the protocol server responds with a **GetAllTagTermsForUrlFolderSoapOut** response message (section 3.1.4.15.1.2).

3.1.4.15.1 Messages

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

Message	Description
GetAllTagTermsForUrlFolderSoapIn	The request WSDL message for the **GetAllTagTermsForUrlFolder WSDL operation**.
GetAllTagTermsForUrlFolderSoapOut	The response WSDL message for the **GetAllTagTermsForUrlFolder** WSDL operation.

3.1.4.15.1.1 GetAllTagTermsForUrlFolderSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetAllTagTermsForUr
lFolder
```

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

3.1.4.15.1.2 GetAllTagTermsForUrlFolderSoapOut

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

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

3.1.4.15.2 Elements

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

Element	Description
GetAllTagTermsForUrlFolder	The input data for the **GetAllTagTermsForUrlFolder WSDL**

Element	Description
	operation.
GetAllTagTermsForUrlFolderResponse	The result data for the **GetAllTagTermsForUrlFolder** WSDL operation.

3.1.4.15.2.1 GetAllTagTermsForUrlFolder

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

```
<xs:element name="GetAllTagTermsForUrlFolder" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="urlFolder" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

urlFolder: A string which specifies the Url which the **social tags** are retrieved for.

maximumItemsToReturn: An integer type that specifies the maximum number of items to return. This value MUST be greater than or equal to zero ("0") and less than 1001 or null. When zero or null is passed, the protocol server MUST return a maximum of 1000 results.

3.1.4.15.2.2 GetAllTagTermsForUrlFolderResponse

The **GetAllTagTermsForUrlFolderResponse** element specifies the result data for the **GetAllTagTermsForUrlFolder WSDL operation**.

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

GetAllTagTermsForUrlFolderResult: An **ArrayOfSocialTermDetail** complex type (section 2.2.4.7), that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag term**, up to any maximum number of entries, as defined by the value of the **maximumItemsToReturn** element (see section 3.1.4.15.2.1).

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   GetAllTagUrls

The **GetAllTagUrls** operation retrieves all of the **social tag URLs** that are associated with a specified **social tag term**.

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

```
<wsdl:operation name="GetAllTagUrls" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetAllTagUrlsSoapIn"/>
  <wsdl:output message="tns:GetAllTagUrlsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetAllTagUrlsSoapIn** request message section 3.1.4.16.1.1() and the protocol server responds with a **GetAllTagUrlsSoapOut** response message (section 3.1.4.16.1.2).

3.1.4.16.1   Messages

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

Message	Description
GetAllTagUrlsSoapIn	The request WSDL message for the **GetAllTagUrls WSDL operation**.
GetAllTagUrlsSoapOut	The response WSDL message for the **GetAllTagUrls** WSDL operation.

3.1.4.16.1.1 GetAllTagUrlsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetAllTagUrls
```

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

3.1.4.16.1.2 GetAllTagUrlsSoapOut

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

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

3.1.4.16.2   Elements

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

Element	Description
GetAllTagUrls	The input data for the **GetAllTagUrls WSDL operation**.
GetAllTagUrlsResponse	The result data for the **GetAllTagUrls** WSDL operation.

3.1.4.16.2.1 GetAllTagUrls

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

```
<xs:element name="GetAllTagUrls" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="termID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

termID: A GUID type that identifies the **social tag term** to retrieve results for. The social tag term referenced by this **termID** MUST be available for tagging. If this value does not match the identifier for an existing social tag term, the protocol server MUST send a **SOAP fault** message.

3.1.4.16.2.2 GetAllTagUrlsResponse

The **GetAllTagUrlsResponse** element specifies the result data for the **GetAllTagUrls WSDL operation**.

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

GetAllTagUrlsResult: An **ArrayOfSocialUrlDetail** complex type (section 2.2.4.8), that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag URL** for the specified **social tag term**.

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.

3.1.4.17 GetAllTagUrlsByKeyword

The **GetAllTagUrlsByKeyword** operation retrieves all of the **social tag URLs** that are associated with a specified **social tag term**.

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

```
<wsdl:operation name="GetAllTagUrlsByKeyword" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetAllTagUrlsByKeywordSoapIn"/>
  <wsdl:output message="tns:GetAllTagUrlsByKeywordSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetAllTagUrlsSoapIn** request message (section 3.1.4.17.1.1) and the protocol server responds with a **GetAllTagUrlsSoapOut** response message (section 3.1.4.17.1.2).

3.1.4.17.1 Messages

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

Message	Description
GetAllTagUrlsByKeywordSoapIn	The request WSDL message for the **GetAllTagUrlsByKeyword WSDL operation**.
GetAllTagUrlsByKeywordSoapOut	The response WSDL message for the **GetAllTagUrlsByKeyword** WSDL operation.

3.1.4.17.1.1 GetAllTagUrlsByKeywordSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetAllTagUrlsByKeyw
ord
```

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

3.1.4.17.1.2 GetAllTagUrlsByKeywordSoapOut

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

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

3.1.4.17.2 Elements

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

Element	Description
GetAllTagUrlsByKeyword	The input data for the **GetAllTagUrlsByKeyword WSDL operation**.
GetAllTagUrlsByKeywordResponse	The result data for the **GetAllTagUrlsByKeyword** WSDL operation.

3.1.4.17.2.1 GetAllTagUrlsByKeyword

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

```
<xs:element name="GetAllTagUrlsByKeyword" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="keyword" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

keyword: A string type that specifies the **social tag term** to return **social tag URLs** for. This value matches the **Name** value of an existing **TermDetail** complex type (section 2.2.4.21). The social tag term referenced by this value MUST be available for tagging. If the specified value is not an existing social tag term, the protocol server MUST send a **SOAP fault** message.

3.1.4.17.2.2 GetAllTagUrlsByKeywordResponse

The **GetAllTagUrlsByKeywordResponse** element specifies the result data for the **GetAllTagUrlsByKeyword WSDL operation**.

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

GetAllTagUrlsByKeywordResult: An **ArrayOfSocialUrlDetail** complex type (section 2.2.4.8), that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag URL** for the specified social tag term.

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 GetCommentsOfUser

The **GetCommentsOfUser** operation retrieves the **social comments** that are associated with a specified **user profile**.

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

```
<wsdl:operation name="GetCommentsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetCommentsOfUserSoapIn"/>
  <wsdl:output message="tns:GetCommentsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetCommentsOfUserSoapIn** request message (section 3.1.4.18.1.1) and the protocol server responds with a **GetCommentsOfUserSoapOut** response message (section 3.1.4.18.1.2).

If the specified user profile does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.18.1 Messages

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

Message	Description
GetCommentsOfUserSoapIn	The request WSDL message for the **GetCommentsOfUser WSDL operation**.
GetCommentsOfUserSoapOut	The response WSDL message for the **GetCommentsOfUser** WSDL operation.

3.1.4.18.1.1 GetCommentsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetCommentsOfUser
```

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

3.1.4.18.1.2 GetCommentsOfUserSoapOut

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

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

3.1.4.18.2 Elements

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

Element	Description
GetCommentsOfUser	The input data for the **GetCommentsOfUser WSDL operation**.
GetCommentsOfUserResponse	The result data for the **GetCommentsOfUser** WSDL operation.

3.1.4.18.2.1 GetCommentsOfUser

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

```
<xs:element name="GetCommentsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startIndex" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** for which to retrieve **social comments**.

maximumItemsToReturn: An integer type that indicates the maximum number of social comments to return. This value MUST be greater than or equal to zero, or **null**. This value MUST be less than 1001. If this value is zero or null, then the protocol server MUST limit the number of social comments that are returned to 100.

startIndex: An integer type that specifies the zero-based index into the total set of comments retrievable by this operation for which the returned set starts. The protocol server MUST NOT include any comments with indices that are less than the specified value. This value MUST be greater than or equal to zero, or **null**. If this value is zero or **null**, then the protocol server MUST use the first social comment in the total set of comments retrievable by this operation as the starting value when returning the social comments.

3.1.4.18.2.2 GetCommentsOfUserResponse

The **GetCommentsOfUserResponse** element specifies the result data for the **GetCommentsOfUser WSDL operation**.

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

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

GetCommentsOfUserResult: An **ArrayOfSocialCommentDetail** complex type (section 2.2.4.4) that contains the requested **social comments**. This element MUST be returned when the operation succeeds.

3.1.4.18.3 Complex Types

None.

3.1.4.18.4 Simple Types

None.

3.1.4.18.5 Attributes

None.

3.1.4.18.6 Groups

None.

3.1.4.18.7 Attribute Groups

None.

3.1.4.19 GetCommentsOfUserOnUrl

The **GetCommentsOfUserOnUrl** operation retrieves the **social comments** that are associated with a specified **user profile** and for a specified **URI**.

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

```
    <wsdl:operation name="GetCommentsOfUserOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:GetCommentsOfUserOnUrlSoapIn"/>
      <wsdl:output message="tns:GetCommentsOfUserOnUrlSoapOut"/>
    </wsdl:operation>
```

The protocol client sends a **GetCommentsOfUserOnUrlSoapIn** request message (section 3.1.4.19.1.1) and the protocol server responds with a **GetCommentsOfUserOnUrlSoapOut** response message (section 3.1.4.19.1.2).

If the specified user profile does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.19.1 Messages

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

Message	Description
GetCommentsOfUserOnUrlSoapIn	The request WSDL message for the **GetCommentsOfUserOnUrl WSDL operation**.
GetCommentsOfUserOnUrlSoapOut	The response WSDL message for the **GetCommentsOfUserOnUrl**

Message	Description
	WSDL operation.

3.1.4.19.1.1 GetCommentsOfUserOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetCommentsOfUserOn
Url
```

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

3.1.4.19.1.2 GetCommentsOfUserOnUrlSoapOut

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

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

3.1.4.19.2 Elements

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

Element	Description
GetCommentsOfUserOnUrl	The input data for the **GetCommentsOfUserOnUrl WSDL operation**.
GetCommentsOfUserOnUrlResponse	The result data for the **GetCommentsOfUserOnUrl** WSDL operation.

3.1.4.19.2.1 GetCommentsOfUserOnUrl

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

```
<xs:element name="GetCommentsOfUserOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve **social comments** for.

url: A string type that specifies the **URI** to retrieve social comments for. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.19.2.2 GetCommentsOfUserOnUrlResponse

The **GetCommentsOfUserOnUrlResponse** element specifies the result data for the
GetCommentsOfUserOnUrl WSDL operation.

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

GetCommentsOfUserOnUrlResult: An **ArrayOfSocialCommentDetail** complex type (section
2.2.4.4) that contains the requested **social comments**. This element MUST be returned when the
operation succeeds. The protocol server MUST limit the results to 1000.

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 GetCommentsOnUrl

The **GetCommentsOnUrl** operation retrieves all of the **social comments** for a specified **URI** and for
a specified set of parameters.

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

```
<wsdl:operation name="GetCommentsOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetCommentsOnUrlSoapIn"/>
  <wsdl:output message="tns:GetCommentsOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetCommentsOnUrlSoapIn** request message (section 3.1.4.20.1.1) and
the protocol server responds with a **GetCommentsOnUrlSoapOut** response message (section
3.1.4.20.1.2).

3.1.4.20.1 Messages

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

Message	Description
GetCommentsOnUrlSoapIn	The request WSDL message for the **GetCommentsOnUrl WSDL operation**.
GetCommentsOnUrlSoapOut	The response WSDL message for the **GetCommentsOnUrl** WSDL operation.

3.1.4.20.1.1 GetCommentsOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetCommentsOnUrl
```

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

3.1.4.20.1.2 GetCommentsOnUrlSoapOut

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

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

3.1.4.20.2   Elements

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

Element	Description
GetCommentsOnUrl	The input data for the **GetCommentsOnUrl WSDL operation**.
GetCommentsOnUrlResponse	The result data for the **GetCommentsOnUrl** WSDL operation.

3.1.4.20.2.1 GetCommentsOnUrl

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

```
<xs:element name="GetCommentsOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>

      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startIndex" nillable="true"
type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="excludeItemsTime" nillable="true"
type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
```

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

url: A string type that specifies the **URI** to get **social comments** for. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

maximumItemsToReturn: An integer type that specifies the maximum number of social comments to return. This value MUST be greater than or equal to zero or **null**. If this value is zero or **null**, the protocol server MUST limit the number of social comments that are returned to 1000.

startIndex: An integer type that specifies the zero-based index into the total set of comments retrievable by this operation for which the returned set starts. The protocol server MUST NOT include any comments with indices that are less than the specified value. This value MUST be greater than or equal to zero, or **null**. If this value is zero or **null**, the protocol server MUST use the first social comment in the total set of comments retrievable by this operation as the starting value when returning the social comments.

excludeItemsTime: A dateTime value that specifies a cut-off point for returning the social comments. The protocol server MUST limit the results by returning only those social comments that were modified after the time that is specified by this value. If this value is **null**, the protocol server MUST NOT limit the results based on the date when a social comment was last modified.

3.1.4.20.2.2   GetCommentsOnUrlResponse

The **GetCommentsOnUrlResponse** element specifies the result data for the **GetCommentsOnUrl WSDL operation**.

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

GetCommentsOnUrlResult: An **ArrayOfSocialCommentDetail** complex type (section 2.2.4.4) that contains the requested **social comments**. This element MUST be returned when the operation succeeds.

3.1.4.20.3   Complex Types

None.

3.1.4.20.4   Simple Types

None.

3.1.4.20.5   Attributes

None.

3.1.4.20.6   Groups

None.

3.1.4.20.7   Attribute Groups

None.

3.1.4.21 GetRatingAverageOnUrl

The **GetRatingAverageOnUrl** operation retrieves the average **social rating** for the item at a specified **URI**.

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

```
<wsdl:operation name="GetRatingAverageOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetRatingAverageOnUrlSoapIn"/>
  <wsdl:output message="tns:GetRatingAverageOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetRatingAverageOnUrlSoapIn** request message (section 3.1.4.21.1.1) and the protocol server responds with a **GetRatingAverageOnUrlSoapOut** response message (section 3.1.4.21.1.2).

If the **current user** does not have permissions to view the social ratings on the specified **url**, the protocol server MUST send a **SOAP fault** message.

3.1.4.21.1 Messages

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

Message	Description
GetRatingAverageOnUrlSoapIn	The request WSDL message for the **GetRatingAverageOnUrl WSDL operation**.
GetRatingAverageOnUrlSoapOut	The response WSDL message for the **GetRatingAverageOnUrl** WSDL operation.

3.1.4.21.1.1 GetRatingAverageOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRatingAverageOnU
rl
```

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

3.1.4.21.1.2 GetRatingAverageOnUrlSoapOut

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

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

3.1.4.21.2 Elements

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

Element	Description
GetRatingAverageOnUrl	The input data for the **GetRatingAverageOnUrl WSDL operation**.
GetRatingAverageOnUrlResponse	The result data for the **GetRatingAverageOnUrl** WSDL operation.

3.1.4.21.2.1 GetRatingAverageOnUrl

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

```
<xs:element name="GetRatingAverageOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** of the item to get the average **social rating** for. This value MUST be fewer than 2,085 characters and MUST be URI format.

3.1.4.21.2.2 GetRatingAverageOnUrlResponse

The **GetRatingAverageOnUrlResponse** element specifies the result data for the **GetRatingAverageOnUrl WSDL operation**.

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

GetRatingAverageOnUrlResult: A **SocialRatingAverageDetail** complex type (section 3.1.4.21.3.1) that contains the average **social rating** that is being requested.

If no social ratings are associated with the **current user**, the protocol server MUST set the value of the **CurrentUserRating** element of the **SocialRatingAverageDetail** complex type to zero.

If no social ratings are associated with the specified **URI**, the protocol server MUST set the value of the **LastModifiedTime** element of the **SocialRatingAverageDetail** complex type to the minimum dateTime value.

If no social ratings are associated with the specified URI, the protocol server MUST set the value of the **Average** element of the **SocialRatingAverageDetail** complex type to negative infinity.

If no social ratings are associated with the specified URI, the protocol server MUST set the **Count** element of the **SocialRatingAverageDetail** complex type to the minimum long value.

3.1.4.21.3 Complex Types

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

Complex type	Description
SocialRatingAverageDetail	Information about the **social ratings** that is associated with a **URI**.

3.1.4.21.3.1 SocialRatingAverageDetail

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **SocialRatingAverageDetail** complex type contains information about the **social ratings** that are associated with a **URI**.

```
<xs:complexType name="SocialRatingAverageDetail" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Average" type="xs:float"/>
    <xs:element minOccurs="1" maxOccurs="1" name="LastModifiedTime" type="xs:dateTime"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Count" type="xs:long"/>
    <xs:element minOccurs="1" maxOccurs="1" name="CurrentUserRating" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Url: A string type that specifies the URI of the item that the average social rating is associated with.

Average: A floating-point number that indicates the average of the social ratings that are associated with any **user profile** for the specified URI.

LastModifiedTime: A **dateTime** value that indicates when the social rating data was last modified for the specified URI.

Count: A long type that specifies the total number of social ratings that are associated with any user profile for the specified URI.

CurrentUserRating: An integer type that specifies the social rating that the **current user** provided for the specified URI.

3.1.4.21.4 Simple Types

None.

3.1.4.21.5 Attributes

None.

3.1.4.21.6 Groups

None.

3.1.4.21.7 Attribute Groups

None.

3.1.4.22 GetRatingOfUserOnUrl

The **GetRatingOfUserOnUrl** operation retrieves a **social rating** that is associated with a specified **user profile** and for a specified **URI**.

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

```
<wsdl:operation name="GetRatingOfUserOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetRatingOfUserOnUrlSoapIn"/>
  <wsdl:output message="tns:GetRatingOfUserOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetRatingOfUserOnUrlSoapIn** request message (section 3.1.4.22.1.1) and the protocol server responds with a **GetRatingOfUserOnUrlSoapOut** response message (section 3.1.4.22.1.2).

If the **current user** does not have permission to view the specified user profile, the protocol server MUST send a **SOAP fault** message. If the current user does not have permission to view the social rating for the specified **userAccountName** on the specified **url**, the protocol server MUST send a SOAP fault message. If the specified user profile does not exist, the protocol server MUST send a SOAP fault message.

3.1.4.22.1 Messages

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

Message	Description
GetRatingOfUserOnUrlSoapIn	The request WSDL message for the **GetRatingOfUserOnUrl WSDL operation**.
GetRatingOfUserOnUrlSoapOut	The response WSDL message for the **GetRatingOfUserOnUrl** WSDL operation.

3.1.4.22.1.1 GetRatingOfUserOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRatingOfUserOnUrl
```

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

3.1.4.22.1.2 GetRatingOfUserOnUrlSoapOut

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

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

3.1.4.22.2 Elements

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

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

Element	Description
GetRatingOfUserOnUrlResponse	The result data for the **GetRatingOfUserOnUrl** WSDL operation.

3.1.4.22.2.1 GetRatingOfUserOnUrl

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

```
<xs:element name="GetRatingOfUserOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve the **social rating** for.

url: A string type that specifies the **URI** to retrieve the social rating for. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.22.2.2 GetRatingOfUserOnUrlResponse

The **GetRatingOfUserOnUrlResponse** element specifies the result data for the **GetRatingOfUserOnUrl WSDL operation**.

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

GetRatingOfUserOnUrlResult: A **SocialRatingDetail** complex type (section 2.2.4.16) that contains the requested **social rating**. If no social rating is associated with the specified **userAccountName**, the protocol server MUST set the **Rating** value of the **SocialRatingDetail** type to zero and the **LastModifiedTime** value of the **SocialRatingDetail** type to the minimum value.

3.1.4.22.3   Complex Types

None.

3.1.4.22.4   Simple Types

None.

3.1.4.22.5   Attributes

None.

3.1.4.22.6 Groups

None.

3.1.4.22.7 Attribute Groups

None.

3.1.4.23 GetRatingOnUrl

The **GetRatingOnUrl** operation retrieves a **social rating** that was added by the **current user** for a specified **URI**.

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

```
<wsdl:operation name="GetRatingOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetRatingOnUrlSoapIn"/>
  <wsdl:output message="tns:GetRatingOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetRatingOnUrlSoapIn** request message (section 3.1.4.23.1.1) and the protocol server responds with a **GetRatingOnUrlSoapOut** response message (section 3.1.4.23.1.2).

The protocol server MUST return only the social rating that is associated with both the current user and a specified URI. If the current user does not have permission to view the social rating on the specified **url**, the protocol server MUST send a **SOAP fault** message.

3.1.4.23.1 Messages

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

Message	Description
GetRatingOnUrlSoapIn	The request WSDL message for the **GetRatingOnUrl WSDL operation**.
GetRatingOnUrlSoapOut	The response WSDL message for the **GetRatingOnUrl** WSDL operation.

3.1.4.23.1.1 GetRatingOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRatingOnUrl
```

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

3.1.4.23.1.2 GetRatingOnUrlSoapOut

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

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

3.1.4.23.2 Elements

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

Element	Description
GetRatingOnUrl	The input data for the **GetRatingOnUrl WSDL operation**.
GetRatingOnUrlResponse	The result data for the **GetRatingOnUrl** WSDL operation.

3.1.4.23.2.1 GetRatingOnUrl

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

```
<xs:element name="GetRatingOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** that is associated with the **social rating** to retrieve. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.23.2.2 GetRatingOnUrlResponse

The **GetRatingOnUrlResponse** element specifies the result data for the **GetRatingOnUrl WSDL operation**.

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

GetRatingOnUrlResult: A **SocialRatingDetail** complex type (section 2.2.4.16) that contains the requested **social rating**. If no social rating is associated with the **current user** for the specific **URI**, the protocol server MUST set the **Rating** value of the **SocialRatingDetail** type to zero and the **LastModifiedTime** value of the **SocialRatingDetail** type to the minimum value.

3.1.4.23.3 Complex Types

None.

3.1.4.23.4 Simple Types

None.

3.1.4.23.5 Attributes

None.

3.1.4.23.6 Groups

None.

3.1.4.23.7 Attribute Groups

None.

3.1.4.24 GetRatingsOfUser

The **GetRatingsOfUser** operation retrieves the **social ratings** that are associated with a specified **user profile**.

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

```
<wsdl:operation name="GetRatingsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetRatingsOfUserSoapIn"/>
  <wsdl:output message="tns:GetRatingsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetRatingsOfUserSoapIn** request message (section 3.1.4.24.1.1) and the protocol server responds with a **GetRatingsOfUserSoapOut** response message (section 3.1.4.24.1.2).

If the specified user profile does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.24.1 Messages

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

Message	Description
GetRatingsOfUserSoapIn	The request WSDL message for the **GetRatingsOfUser WSDL operation**.
GetRatingsOfUserSoapOut	The response WSDL message for the **GetRatingsOfUser** WSDL operation.

3.1.4.24.1.1 GetRatingsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRatingsOfUser
```

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

3.1.4.24.1.2 GetRatingsOfUserSoapOut

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

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

3.1.4.24.2 Elements

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

Element	Description
GetRatingsOfUser	The input data for the **GetRatingsOfUser WSDL operation**.
GetRatingsOfUserResponse	The result data for the **GetRatingsOfUser** WSDL operation.

3.1.4.24.2.1 GetRatingsOfUser

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

```
<xs:element name="GetRatingsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve **social ratings** for.

3.1.4.24.2.2 GetRatingsOfUserResponse

The **GetRatingsOfUserResponse** element specifies the result data for the **GetRatingsOfUser WSDL operation**.

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

GetRatingsOfUserResult: An **ArrayOfSocialRatingDetail** complex type (section 2.2.4.5) that contains the requested **social ratings**. This element MUST be returned when the operation succeeds. The protocol server MUST limit the results to 1000.

3.1.4.24.3   Complex Types

None.

3.1.4.24.4   Simple Types

None.

3.1.4.24.5   Attributes

None.

3.1.4.24.6 Groups

None.

3.1.4.24.7 Attribute Groups

None.

3.1.4.25 GetRatingsOnUrl

The **GetRatingsOnUrl** operation retrieves all of the **social ratings** for a specified **URI**.

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

```
<wsdl:operation name="GetRatingsOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetRatingsOnUrlSoapIn"/>
  <wsdl:output message="tns:GetRatingsOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetRatingsOnUrlSoapIn** request message (section 3.1.4.25.1.1) and the protocol server responds with a **GetRatingsOnUrlSoapOut** response message (section 3.1.4.25.1.2).

3.1.4.25.1 Messages

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

Message	Description
GetRatingsOnUrlSoapIn	The request WSDL message for the **GetRatingsOnUrl WSDL operation**.
GetRatingsOnUrlSoapOut	The response WSDL message for the **GetRatingsOnUrl** WSDL operation.

3.1.4.25.1.1 GetRatingsOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRatingsOnUrl
```

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

3.1.4.25.1.2 GetRatingsOnUrlSoapOut

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

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

3.1.4.25.2 Elements

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

Element	Description
GetRatingsOnUrl	The input data for the **GetRatingsOnUrl WSDL operation**.
GetRatingsOnUrlResponse	The result data for the **GetRatingsOnUrl** WSDL operation.

3.1.4.25.2.1 GetRatingsOnUrl

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

```
<xs:element name="GetRatingsOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** to retrieve **social ratings** for. This value MUST be fewer than or equal to 2,084 characters and MUST be URI format.

3.1.4.25.2.2 GetRatingsOnUrlResponse

The **GetRatingsOnUrlResponse** element specifies the result data for the **GetRatingsOnUrl WSDL operation**.

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

GetRatingsOnUrlResult: An **ArrayOfSocialRatingDetail** complex type (section 2.2.4.5) that contains the **social ratings** for the specified **URI**. This element MUST be returned when the operation succeeds.

3.1.4.25.3 Complex Types

None.

3.1.4.25.4 Simple Types

None.

3.1.4.25.5 Attributes

None.

3.1.4.25.6 Groups

None.

3.1.4.25.7 Attribute Groups

None.

3.1.4.26 GetSocialDataForFullReplication

The **GetSocialDataForFullReplication** operation retrieves the list of existing **social comments**, **social tags** and **social ratings** for a specified **user profile** for use when replicating the **social data**.

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

```
<wsdl:operation name="GetSocialDataForFullReplication"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetSocialDataForFullReplicationSoapIn"/>
  <wsdl:output message="tns:GetSocialDataForFullReplicationSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetSocialDataForFullReplicationSoapIn** request message (section 3.1.4.26.1.1) and the protocol server responds with a **GetSocialDataForFullReplicationSoapOut** response message (section 3.1.4.26.1.2).

The protocol server MUST return the social data elements that are associated to the specified user profile.

3.1.4.26.1 Messages

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

Message	Description
GetSocialDataForFullReplicationSoapIn	The request WSDL message for the **GetSocialDataForFullReplication WSDL operation**.
GetSocialDataForFullReplicationSoapOut	The response WSDL message for the **GetSocialDataForFullReplication** WSDL operation.

3.1.4.26.1.1 GetSocialDataForFullReplicationSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetSocialDataForFul
lReplication
```

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

3.1.4.26.1.2 GetSocialDataForFullReplicationSoapOut

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

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

3.1.4.26.2 Elements

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

Element	Description
GetSocialDataForFullReplication	The input data for the **GetSocialDataForFullReplication WSDL operation**.
GetSocialDataForFullReplicationResponse	The result data for the **GetSocialDataForFullReplication** WSDL operation.

3.1.4.26.2.1 GetSocialDataForFullReplication

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

```
<xs:element name="GetSocialDataForFullReplication"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** to retrieve the existing **social data** elements for. If the user profile for the specified user name does not exist, the protocol server MUST send a **SOAP fault** message.

3.1.4.26.2.2 GetSocialDataForFullReplicationResponse

The **GetSocialDataForFullReplicationResponse** element specifies the result data for the **GetSocialDataForFullReplication WSDL operation**.

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

GetSocialDataForFullReplicationResult: A **SocialReplicationData** complex type (section 2.2.4.17) containing the existing **social comments**, **social tags** and **social ratings** for the specified **user profile**. The protocol server MUST return null for the **DeletedTags**, **DeletedComments** and **DeletedRatings fields (1)** of the **SocialReplicationData** object.

3.1.4.26.3 Complex Types

None.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetSocialDataForIncrementalReplication

The **GetSocialDataForIncrementalReplication** operation retrieves the list of existing and deleted **social comments**, **social tags** and **social ratings** for a specified time period.

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

```
<wsdl:operation name="GetSocialDataForIncrementalReplication"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetSocialDataForIncrementalReplicationSoapIn"/>
  <wsdl:output message="tns:GetSocialDataForIncrementalReplicationSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetSocialDataForIncrementalReplicationSoapIn** request message (section 3.1.4.27.1.1) and the protocol server responds with a **GetSocialDataForIncrementalReplicationSoapOut** response message (section 3.1.4.27.1.2).

The protocol server MUST return the social data elements that are associated to the specified time period.

3.1.4.27.1 Messages

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

Message	Description
GetSocialDataForIncrementalReplicationSoapIn	The request WSDL message for the **GetSocialDataForIncrementalReplication WSDL operation**.
GetSocialDataForIncrementalReplicationSoapOut	The response WSDL message for the **GetSocialDataForIncrementalReplication** WSDL operation.

3.1.4.27.1.1 GetSocialDataForIncrementalReplicationSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetSocialDataForInc
rementalReplication
```

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

3.1.4.27.1.2 GetSocialDataForIncrementalReplicationSoapOut

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

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

3.1.4.27.2 Elements

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

Element	Description
GetSocialDataForIncrementalReplication	The input data for the **GetSocialDataForIncrementalReplication WSDL operation**.
GetSocialDataForIncrementalReplicationResponse	The result data for the **GetSocialDataForIncrementalReplication** WSDL operation.

3.1.4.27.2.1 GetSocialDataForIncrementalReplication

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

```
<xs:element name="GetSocialDataForIncrementalReplication"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="startTime" type="xs:dateTime"/>
      <xs:element minOccurs="1" maxOccurs="1" name="endTime" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

startTime: A dateTime value used to limit the results. The protocol server MUST NOT return the existing and deleted **social comments**, **social tags** and **social ratings** which were last modified or deleted before this time.

endTime: A dateTime value used to limit the results. The protocol server MUST NOT return the existing and deleted social comments, social tags and social ratings which were last modified or deleted after or equal to this time.

3.1.4.27.2.2 GetSocialDataForIncrementalReplicationResponse

The **GetSocialDataForIncrementalReplicationResponse** element specifies the result data for the **GetSocialDataForIncrementalReplication WSDL operation**.

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

GetSocialDataForIncrementalReplicationResult: A **SocialReplicationData** (section 2.2.4.17) containing the existing and deleted **social comments**, **social tags** and **social ratings** limited by the specified **startTime** and **endTime**.

3.1.4.27.3   Complex Types

None.

3.1.4.27.4   Simple Types

None.

3.1.4.27.5   Attributes

None.

3.1.4.27.6   Groups

None.

3.1.4.27.7   Attribute Groups

None.

3.1.4.28   GetTags

The **GetTags** operation retrieves the social tags that were created by the **current user** for a specified **URL**.

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

```
<wsdl:operation name="GetTags" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagsSoapIn"/>
  <wsdl:output message="tns:GetTagsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagsSoapIn** request message (section 3.1.4.28.1.1) and the protocol server responds with a **GetTagsSoapOut** response message (section 3.1.4.28.1.2).

3.1.4.28.1   Messages

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

Message	Description
GetTagsSoapIn	The request WSDL message for the **GetTags WSDL operation**.
GetTagsSoapOut	The response WSDL message for the **GetTags** WSDL operation.

3.1.4.28.1.1 GetTagsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTags
```

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

3.1.4.28.1.2 GetTagsSoapOut

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

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

3.1.4.28.2 Elements

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

Element	Description
GetTags	The input data for the **GetTags WSDL operation**.
GetTagsResponse	The result data for the **GetTags** WSDL operation.

3.1.4.28.2.1 GetTags

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

```
<xs:element name="GetTags" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URL** to retrieve social tags for.

3.1.4.28.2.2 GetTagsResponse

The **GetTagsResponse** element specifies the result data for the **GetTags WSDL operation**.

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

```
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetTagsResult"
type="tns:ArrayOfSocialTagDetail"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetTagsResult: An **ArrayOfSocialTagDetail** complex type (section 2.2.4.6) that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag** that was created by the **current user** and is associated with the specified **URL**. The protocol server MUST limit the results to 1000.

3.1.4.28.3   Complex Types

None.

3.1.4.28.4   Simple Types

None.

3.1.4.28.5   Attributes

None.

3.1.4.28.6   Groups

None.

3.1.4.28.7   Attribute Groups

None.

3.1.4.29   GetTagsOfUser

The **GetTagsOfUser** operation retrieves the **social tags** that were added by a specified user.

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

```
<wsdl:operation name="GetTagsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagsOfUserSoapIn"/>
  <wsdl:output message="tns:GetTagsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagsOfUserSoapIn** request message (section 3.1.4.29.1.1) and the protocol server responds with a **GetTagsOfUserSoapOut** response message (section 3.1.4.29.1.2).

If the specified **user profile** does not exist, the protocol server MUST send a **SOAP fault** message

3.1.4.29.1   Messages

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

Message	Description
GetTagsOfUserSoapIn	The request WSDL message for the **GetTagsOfUser WSDL operation**.

Message	Description
GetTagsOfUserSoapOut	The response WSDL message for the **GetTagsOfUser** WSDL operation.

3.1.4.29.1.1 GetTagsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagsOfUser
```

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

3.1.4.29.1.2 GetTagsOfUserSoapOut

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

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

3.1.4.29.2 Elements

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

Element	Description
GetTagsOfUser	The input data for the **GetTagsOfUser WSDL operation**.
GetTagsOfUserResponse	The result data for the **GetTagsOfUser** WSDL operation.

3.1.4.29.2.1 GetTagsOfUser

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

```
<xs:element name="GetTagsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startIndex" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **social tag user** to retrieve results for. If the specified account does not reference an existing social tag user, the protocol server MUST send a **SOAP fault** message.

maximumItemsToReturn: An integer type that specifies the maximum number of social tags to return. This value MUST be greater than or equal to zero or **null**. When zero or **null** is passed, the protocol server MUST return a maximum of 1000 results.

startIndex: An integer type that specifies the zero-based index into the total set of social tags retrievable by this operation for which the returned set starts. The protocol server MUST NOT include any **social tags** with indices that are less than the specified value. This value MUST NOT be negative. If the value is zero or **null**, the protocol server MUST NOT limit the results based on this value.

3.1.4.29.2.2 GetTagsOfUserResponse

The **GetTagsOfUserResponse** element specifies the result data for the **GetTagsOfUser WSDL operation**.

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

GetTagsOfUserResult: An **ArrayOfSocialTagDetail** complex type (section 2.2.4.6) that contains the results. This element MUST be returned when the operation succeeds. Unless trimmed from the results, there MUST be one entry for each **social tag** that was added by the user who is specified by the **userAccountName** element. The results MUST be trimmed such that the values of the **maximumItemsToReturn** and **startIndex** elements are respected. See section 3.1.4.29.2.1 for element details.

3.1.4.29.3 Complex Types

None.

3.1.4.29.4 Simple Types

None.

3.1.4.29.5 Attributes

None.

3.1.4.29.6 Groups

None.

3.1.4.29.7 Attribute Groups

None.

3.1.4.30 GetTagTerms

The **GetTagTerms** operation retrieves only **social tag terms** that were authored by the **current user**.

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

```
<wsdl:operation name="GetTagTerms" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagTermsSoapIn"/>
  <wsdl:output message="tns:GetTagTermsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagTermsSoapIn** request message (section 3.1.4.30.1.1) and the protocol server responds with a **GetTagTermsSoapOut** response message (section 3.1.4.30.1.2).

3.1.4.30.1   Messages

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

Message	Description
GetTagTermsSoapIn	The request WSDL message for the **GetTagTerms WSDL operation**.
GetTagTermsSoapOut	The response WSDL message for the **GetTagTerms** WSDL operation.

3.1.4.30.1.1 GetTagTermsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagTerms
```

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

3.1.4.30.1.2 GetTagTermsSoapOut

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

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

3.1.4.30.2   Elements

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

Element	Description
GetTagTerms	The input data for the **GetTagTerms WSDL operation**.
GetTagTermsResponse	The result data for the **GetTagTerms** WSDL operation.

3.1.4.30.2.1 GetTagTerms

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

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

```
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
  type="xs:int"/>
        </xs:sequence>
      </xs:complexType>
  </xs:element>
```

maximumItemsToReturn: An integer type that specifies the maximum number of **social tag terms** to return. This value MUST be greater than or equal to zero and less than 3001 or null. When zero or **null** is passed, the protocol server MUST return a maximum of 1000 results.

3.1.4.30.2.2 GetTagTermsResponse

The **GetTagTermsResponse** element specifies the result data for the **GetTagTerms WSDL operation**.

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

GetTagTermsResult: An **ArrayOfSocialTermDetail** complex type (section 2.2.4.7) that contains the results in descending order on the **SocialTermDetail** complex type (section 2.2.4.19) **Count** value. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag term** for the **current user**, up to any maximum number of entries, as defined by the value of the **maximumItemsToReturn** element (see section 3.1.4.30.2.1). The protocol server MUST trim the results by removing all elements after the first N elements, where N is specified by the value of the **maximumItemsToReturn** element.

3.1.4.30.3   Complex Types

None.

3.1.4.30.4   Simple Types

None.

3.1.4.30.5   Attributes

None.

3.1.4.30.6   Groups

None.

3.1.4.30.7   Attribute Groups

None.

3.1.4.31   GetTagTermsOfUser

The **GetTagTermsOfUser** operation retrieves the **social tag terms** that were authored by a specific **social tag user**. The result set can be limited to a maximum number of items.

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

```
<wsdl:operation name="GetTagTermsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagTermsOfUserSoapIn"/>
  <wsdl:output message="tns:GetTagTermsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagTermsOfUserSoapIn** request message (section 3.1.4.31.1.1) and the protocol server responds with a **GetTagTermsOfUserSoapOut** response message (section 3.1.4.31.1.2).

3.1.4.31.1   Messages

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

Message	Description
GetTagTermsOfUserSoapIn	The request WSDL message for the **GetTagTermsOfUser WSDL operation**.
GetTagTermsOfUserSoapOut	The response WSDL message for the **GetTagTermsOfUser** WSDL operation.

3.1.4.31.1.1 GetTagTermsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagTermsOfUser
```

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

3.1.4.31.1.2 GetTagTermsOfUserSoapOut

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

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

3.1.4.31.2   Elements

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

Element	Description
GetTagTermsOfUser	The input data for the **GetTagTermsOfUser WSDL operation**.
GetTagTermsOfUserResponse	The result data for the **GetTagTermsOfUser** WSDL operation.

3.1.4.31.2.1 GetTagTermsOfUser

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

```
<xs:element name="GetTagTermsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that contains the user login name that is associated with the **social tag terms** to query for. This argument MUST NOT be NULL. If the specified user login name does not reference an existing **social tag user**, the protocol server MUST return a **SOAP fault** message.

maximumItemsToReturn: An integer type that specifies the maximum number of items to return. This value MUST be greater than or equal to zero and less than 3001 or **null**. When zero or **null** is passed, the protocol server MUST return a maximum of 1000 results.

3.1.4.31.2.2 GetTagTermsOfUserResponse

The **GetTagTermsOfUserResponse** element specifies the result data for the **GetTagTermsOfUser WSDL operation**.

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

GetTagTermsOfUserResult: An **ArrayOfSocialTermDetail** complex type (section 2.2.4.7) that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each term that was created by the specified **social tag user**, and no more than the maximum number of results specified by the value of the **maximumItemsToReturn** element (see section 3.1.4.31.2.1). The protocol server MUST trim the results by removing all elements after the first N elements, where N is specified by the value of the **maximumItemsToReturn** element.

3.1.4.31.3 Complex Types

None.

3.1.4.31.4 Simple Types

None.

3.1.4.31.5 Attributes

None.

3.1.4.31.6 Groups

None.

3.1.4.31.7 Attribute Groups

None.

3.1.4.32 GetTagTermsOnUrl

The **GetTagTermsOnUrl** operation retrieves the **social tag terms** for a specified **social tag URL**.

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

```
<wsdl:operation name="GetTagTermsOnUrl" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagTermsOnUrlSoapIn"/>
  <wsdl:output message="tns:GetTagTermsOnUrlSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagTermsOnUrlSoapIn** request message (section 3.1.4.32.1.1) and the protocol server responds with a **GetTagTermsOnUrlSoapOut** response message (section 3.1.4.32.1.2).

3.1.4.32.1 Messages

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

Message	Description
GetTagTermsOnUrlSoapIn	The request WSDL message for the **GetTagTermsOnUrl WSDL operation**.
GetTagTermsOnUrlSoapOut	The response WSDL message for the **GetTagTermsOnUrl** WSDL operation.

3.1.4.32.1.1 GetTagTermsOnUrlSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagTermsOnUrl
```

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

3.1.4.32.1.2 GetTagTermsOnUrlSoapOut

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

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

3.1.4.32.2 Elements

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

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

Element	Description
GetTagTermsOnUrlResponse	The result data for the **GetTagTermsOnUrl** WSDL operation.

3.1.4.32.2.1 GetTagTermsOnUrl

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

```
<xs:element name="GetTagTermsOnUrl" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn" nillable="true"
type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **social tag URL** to retrieve results for. This value MUST be fewer than or equal to 2,084 characters and MUST be **URI** format.

maximumItemsToReturn: An integer type that specifies the maximum number of items to return. This value MUST be greater than or equal to zero ("0") and less than 1001 or null. When zero or null is passed, the protocol server MUST return a maximum of 100 results.

3.1.4.32.2.2 GetTagTermsOnUrlResponse

The **GetTagTermsOnUrlResponse** element specifies the result data for the **GetTagTermsOnUrl WSDL operation**.

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

GetTagTermsOnUrlResult: An **ArrayOfSocialTermDetail** complex type (section 2.2.4.7) that contains the results in descending order on the **SocialTermDetail** complex type **Count** value (section 2.2.4.19). This element MUST be returned when the operation succeeds. There MUST be one entry for each term, up to any maximum number of entries, as defined by the value of the **maximumItemsToReturn** element (see section 3.1.4.32.2.1). The protocol server MUST trim the results by removing all elements after the first N elements, where N is specified by the value of the **maximumItemsToReturn** element.

3.1.4.32.3   Complex Types

None.

3.1.4.32.4   Simple Types

None.

3.1.4.32.5 Attributes

None.

3.1.4.32.6 Groups

None.

3.1.4.32.7 Attribute Groups

None.

3.1.4.33 GetTagUrls

The **GetTagUrls** operation retrieves the **social tag URLs** that were tagged by the **current user** with a specified **social tag term**.

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

```
<wsdl:operation name="GetTagUrls" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagUrlsSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagUrlsSoapIn** request message (section 3.1.4.33.1.1) and the protocol server responds with a **GetTagUrlsSoapOut** response message (section 3.1.4.33.1.2).

3.1.4.33.1 Messages

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

Message	Description
GetTagUrlsSoapIn	The request WSDL message for the **GetTagUrls WSDL operation**.
GetTagUrlsSoapOut	The response WSDL message for the **GetTagUrls** WSDL operation.

3.1.4.33.1.1 GetTagUrlsSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagUrls
```

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

3.1.4.33.1.2 GetTagUrlsSoapOut

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

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

3.1.4.33.2 Elements

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

Element	Description
GetTagUrls	The input data for the **GetTagUrls WSDL operation**.
GetTagUrlsResponse	The result data for the **GetTagUrls** WSDL operation.

3.1.4.33.2.1 GetTagUrls

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

```
<xs:element name="GetTagUrls" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="termID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

termID: A GUID type that identifies the **social tag term** to retrieve results for. If the specified value does not reference an existing social tag term, the protocol server MUST send a **SOAP fault** message.

3.1.4.33.2.2 GetTagUrlsResponse

The **GetTagUrlsResponse** element specifies the result data for the **GetTagUrls WSDL operation**.

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

GetTagUrlsResult: An **ArrayOfString** complex type (section 2.2.4.9) that contains the results. This element MUST be returned when the operation succeeds. There MUST be one entry for each **social tag URL** for the specified **social tag term**. The protocol server MUST limit the results to 400.

3.1.4.33.3 Complex Types

None.

3.1.4.33.4 Simple Types

None.

3.1.4.33.5 Attributes

None.

3.1.4.33.6 Groups

None.

3.1.4.33.7 Attribute Groups

None.

3.1.4.34 GetTagUrlsByKeyword

The **GetTagUrlsByKeyword** operation retrieves the **social tag URLs**, tagged with a specified keyword, which are associated to the **current user**.

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

```
<wsdl:operation name="GetTagUrlsByKeyword" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagUrlsByKeywordSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsByKeywordSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagUrlsByKeywordSoapIn** request message (section 3.1.4.34.1.1) and the protocol server responds with a **GetTagUrlsByKeywordSoapOut** response message (section 3.1.4.34.1.2).

3.1.4.34.1 Messages

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

Message	Description
GetTagUrlsByKeywordSoapIn	The request WSDL message for the **GetTagUrlsByKeyword WSDL operation**.
GetTagUrlsByKeywordSoapOut	The response WSDL message for the **GetTagUrlsByKeyword** WSDL operation.

3.1.4.34.1.1 GetTagUrlsByKeywordSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagUrlsByKeyword
```

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

3.1.4.34.1.2 GetTagUrlsByKeywordSoapOut

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

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

3.1.4.34.2 Elements

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

Element	Description
GetTagUrlsByKeyword	The input data for the **GetTagUrlsByKeyword WSDL operation**.
GetTagUrlsByKeywordResponse	The result data for the **GetTagUrlsByKeyword** WSDL operation.

3.1.4.34.2.1 GetTagUrlsByKeyword

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

```
<xs:element name="GetTagUrlsByKeyword" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="keyword" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

keyword: A string type that specifies the **social tag term** to query for. This value matches the **Name** value of an existing **TermDetail** complex type (section 2.2.4.21). If the specified value is not an existing social tag term, the protocol server MUST send a **SOAP fault** message.

3.1.4.34.2.2 GetTagUrlsByKeywordResponse

The **GetTagUrlsByKeywordResponse** element specifies the result data for the **GetTagUrlsByKeyword WSDL operation**.

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

GetTagUrlsByKeywordResult: An **ArrayOfString** complex type (section 2.2.4.9) that contains the results of the query. This element MUST be returned when the operation succeeds. There MUST be exactly one entry for each **social tag URL** that is associated with the specified **social tag term**. The protocol server MUST limit the results to 400.

3.1.4.34.3   Complex Types

None.

3.1.4.34.4   Simple Types

None.

3.1.4.34.5   Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 GetTagUrlsOfUser

The **GetTagUrlsOfUser** operation retrieves the **social tag URLs** that are associated with a specified **social tag term** and were added by a specified **social tag user**.

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

```
<wsdl:operation name="GetTagUrlsOfUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagUrlsOfUserSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsOfUserSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagUrlsOfUserSoapIn** request message (section 3.1.4.35.1.1) and the protocol server responds with a **GetTagUrlsOfUserSoapOut** response message (section 3.1.4.35.1.2).

3.1.4.35.1 Messages

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

Message	Description
GetTagUrlsOfUserSoapIn	The request WSDL message for the **GetTagUrlsOfUser WSDL operation**.
GetTagUrlsOfUserSoapOut	The response WSDL message for the **GetTagUrlsOfUser** WSDL operation.

3.1.4.35.1.1 GetTagUrlsOfUserSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagUrlsOfUser
```

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

3.1.4.35.1.2 GetTagUrlsOfUserSoapOut

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

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

3.1.4.35.2 Elements

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

Element	Description
GetTagUrlsOfUser	The input data for the **GetTagUrlsOfUser WSDL operation**.
GetTagUrlsOfUserResponse	The result data for the **GetTagUrlsOfUser** WSDL operation.

3.1.4.35.2.1 GetTagUrlsOfUser

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

```
<xs:element name="GetTagUrlsOfUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="termID"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

termID: A GUID type that specifies the identifier of the **social tag term** to query for. If the specified value does not reference an existing social tag term, the protocol server MUST send a **SOAP fault** message.

userAccountName: A string type that specifies the user login name of the user who added a social tag with the specified social tag term. The protocol server MUST return only those **social tags** that were added by the specified **social tag user**. If the specified social tag user does not exist, the protocol server MUST send a SOAP fault message.

3.1.4.35.2.2 GetTagUrlsOfUserResponse

The **GetTagUrlsOfUserResponse** element specifies the result data for the **GetTagUrlsOfUser WSDL operation**.

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

GetTagUrlsOfUserResult: An **ArrayOfString** complex type (section 2.2.4.9), that contains the results. This element MUST be returned when the operation succeeds. There MUST be exactly one entry for each **social tag URL** that was tagged with the specified **social tag term** by the specified user. The protocol server MUST limit the results to 400.

3.1.4.35.3 Complex Types

None.

3.1.4.35.4 Simple Types

None.

3.1.4.35.5 Attributes

None.

3.1.4.35.6 Groups

None.

3.1.4.35.7 Attribute Groups

None.

3.1.4.36 GetTagUrlsOfUserByKeyword

The **GetTagUrlsOfUserByKeyword** operation retrieves the **social tag URLs** that are associated with a specified **social tag term** and were added by a specified **social tag user**.

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

```
<wsdl:operation name="GetTagUrlsOfUserByKeyword"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetTagUrlsOfUserByKeywordSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsOfUserByKeywordSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **GetTagUrlsOfUserByKeywordSoapIn** request message (section 3.1.4.36.1.1) and the protocol server responds with a **GetTagUrlsOfUserByKeywordSoapOut** response message (section 3.1.4.36.1.2).

3.1.4.36.1 Messages

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

Message	Description
GetTagUrlsOfUserByKeywordSoapIn	The request WSDL message for the **GetTagUrlsOfUserByKeyword WSDL operation**.
GetTagUrlsOfUserByKeywordSoapOut	The response WSDL message for the **GetTagUrlsOfUserByKeyword** WSDL operation.

3.1.4.36.1.1 GetTagUrlsOfUserByKeywordSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagUrlsOfUserByK
eyword
```

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

3.1.4.36.1.2 GetTagUrlsOfUserByKeywordSoapOut

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

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

3.1.4.36.2 Elements

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

Element	Description
GetTagUrlsOfUserByKeyword	The input data for the **GetTagUrlsOfUserByKeyword WSDL operation**.
GetTagUrlsOfUserByKeywordResponse	The result data for the **GetTagUrlsOfUserByKeyword** WSDL operation.

3.1.4.36.2.1 GetTagUrlsOfUserByKeyword

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

```
<xs:element name="GetTagUrlsOfUserByKeyword" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="keyword" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

keyword: A string type that specifies the **social tag term** to query for. This value matches the **Name** value of an existing **TermDetail** complex type (section 2.2.4.21). If the specified value is not an existing social tag term, the protocol server MUST send a **SOAP fault** message.

userAccountName: A string type that specifies the user login name of the **social tag user** to query for. If the specified social tag user does not exist, the protocol server MUST send a SOAP fault message.

3.1.4.36.2.2 GetTagUrlsOfUserByKeywordResponse

The **GetTagUrlsOfUserByKeywordResponse** element specifies the result data for the **GetTagUrlsOfUserByKeyword WSDL operation**.

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

GetTagUrlsOfUserByKeywordResult: An **ArrayOfString** complex type (section 2.2.4.9) that contains the results. This element MUST be returned when the operation succeeds. There MUST be exactly one entry for each **social tag URL** that is associated with the specified **social tag term** and was authored by the specified **social tag user**. The protocol server MUST limit the results to 400.

3.1.4.36.3 Complex Types

None.

3.1.4.36.4 Simple Types

None.

3.1.4.36.5 Attributes

None.

3.1.4.36.6 Groups

None.

3.1.4.36.7 Attribute Groups

None.

3.1.4.37 PropagateRating

The **PropagateRating** operation triggers a recalculation of the current, average **social rating** for the specified **URI** that points to a protocol server **list item** and it stores that new value in the **Rating field (2)**.

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

```
<wsdl:operation name="PropagateRating" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:PropagateRatingSoapIn"/>
  <wsdl:output message="tns:PropagateRatingSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **PropagateRatingSoapIn** request message (section 3.1.4.37.1.1) and the protocol server responds with a **PropagateRatingSoapOut** response message (section 3.1.4.37.1.2).

3.1.4.37.1 Messages

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

Message	Description
PropagateRatingSoapIn	The request WSDL message for the **PropagateRating WSDL operation**.
PropagateRatingSoapOut	The response WSDL message for the **PropagateRating** WSDL operation.

3.1.4.37.1.1 PropagateRatingSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/PropagateRating
```

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

3.1.4.37.1.2 PropagateRatingSoapOut

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

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

3.1.4.37.2 Elements

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

Element	Description
PropagateRating	The input data for the **PropagateRating WSDL operation**.
PropagateRatingResponse	The result data for the **PropagateRating** WSDL operation.

3.1.4.37.2.1 PropagateRating

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

```
<xs:element name="PropagateRating" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URI** of a protocol server **list item** whose metadata to update with the current, average **social rating**.

3.1.4.37.2.2 PropagateRatingResponse

The **PropagateRatingResponse** element specifies the result data for the **PropagateRating WSDL operation**.

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

3.1.4.37.3 Complex Types

None.

3.1.4.37.4 Simple Types

None.

3.1.4.37.5   Attributes

None.

3.1.4.37.6   Groups

None.

3.1.4.37.7   Attribute Groups

None.

3.1.4.38   ReplicateFullSocialData

The **ReplicateFullSocialData** operation replicates the specified **social comments**, **social tags** and **social ratings** for a specified **user profile** to the server.

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

```
<wsdl:operation name="ReplicateFullSocialData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:ReplicateFullSocialDataSoapIn"/>
  <wsdl:output message="tns:ReplicateFullSocialDataSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **ReplicateFullSocialDataSoapIn** request message (section 3.1.4.38.1.1) and the protocol server responds with a **ReplicateFullSocialDataSoapOut** response message (section 3.1.4.38.1.2).

3.1.4.38.1   Messages

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

Message	Description
ReplicateFullSocialDataSoapIn	The request WSDL message for the **ReplicateFullSocialData WSDL operation**.
ReplicateFullSocialDataSoapOut	The response WSDL message for the **ReplicateFullSocialData** WSDL operation.

3.1.4.38.1.1   ReplicateFullSocialDataSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/ReplicateFullSocial
Data
```

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

3.1.4.38.1.2   ReplicateFullSocialDataSoapOut

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

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

3.1.4.38.2   Elements

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

Element	Description
ReplicateFullSocialData	The input data for the **ReplicateFullSocialData WSDL operation**.
ReplicateFullSocialDataResponse	The result data for the **ReplicateFullSocialData** WSDL operation.

3.1.4.38.2.1 ReplicateFullSocialData

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

```
<xs:element name="ReplicateFullSocialData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="changes"
type="tns:SocialReplicationData"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

userAccountName: A string type that specifies the user login name of the **user profile** that the specified **social data** comments, social tags and **social ratings** should be replicated for. This value MUST NOT be **null** or empty.

changes: A **SocialReplicationData** complex type (section 2.2.4.17) that contains the existing **social comments**, **social tags** and social ratings to replicate. The **DeletedComments**, **DeletedTags** and **DeletedRatings fields (1)** on this value MUST be **null**. This value MUST NOT be **null**.

3.1.4.38.2.2 ReplicateFullSocialDataResponse

The **ReplicateFullSocialDataResponse** element specifies the result data for the **ReplicateFullSocialData WSDL operation**.

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

ReplicateFullSocialDataResult: A Boolean value that contains the status of the operation. A value of **true** indicates success. A value of **false** indicates failure.

The protocol server MUST return a value of **false** if the specified **user profile** could not be found. The protocol server MUST return a value of **false** if **DeletedComments**, **DeletedTags** or **DeletedRatings field (1)** on **changes** is not **null**. The protocol server MUST return a value of **false** if the **Comments**, **Tags** or **Ratings** field (1) contain elements whose **Owner** field (1) is not equal to the specified user profile user name. The protocol server MUST return a value of **false** if there is a failure when replicating any data to the server.

3.1.4.38.3   Complex Types

None.

3.1.4.38.4   Simple Types

None.

3.1.4.38.5   Attributes

None.

3.1.4.38.6   Groups

None.

3.1.4.38.7   Attribute Groups

None.

3.1.4.39   ReplicateIncrementalSocialData

The **ReplicateIncrementalSocialData** operation replicates the specified existing and deleted **social comments**, **social tags** and **social ratings** to the server.

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

```
<wsdl:operation name="ReplicateIncrementalSocialData"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:ReplicateIncrementalSocialDataSoapIn"/>
  <wsdl:output message="tns:ReplicateIncrementalSocialDataSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **ReplicateIncrementalSocialDataSoapIn** request message (section 3.1.4.39.1.1) and the protocol server responds with a **ReplicateIncrementalSocialDataSoapOut** response message (section 3.1.4.39.1.2).

3.1.4.39.1   Messages

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

Message	Description
ReplicateIncrementalSocialDataSoapIn	The request WSDL message for the **ReplicateIncrementalSocialData WSDL operation**.
ReplicateIncrementalSocialDataSoapOut	The response WSDL message for the **ReplicateIncrementalSocialData** WSDL operation.

3.1.4.39.1.1 ReplicateIncrementalSocialDataSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/ReplicateIncremental
SocialData
```

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

3.1.4.39.1.2 ReplicateIncrementalSocialDataSoapOut

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

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

3.1.4.39.2 Elements

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

Element	Description
ReplicateIncrementalSocialData	The input data for the **ReplicateIncrementalSocialData WSDL operation**.
ReplicateIncrementalSocialDataResponse	The result data for the **ReplicateIncrementalSocialData** WSDL operation.

3.1.4.39.2.1 ReplicateIncrementalSocialData

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

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

changes: A **SocialReplicationData** complex type (section 2.2.4.17) that contains the existing and deleted **social comments**, **social tags** and **social ratings** to replicate. This value MUST NOT be null.

3.1.4.39.2.2 ReplicateIncrementalSocialDataResponse

The **ReplicateIncrementalSocialDataResponse** element specifies the result data for the **ReplicateIncrementalSocialData WSDL operation**.

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

ReplicateIncrementalSocialDataResult: A Boolean value that contains the status of the operation. A value of **true** indicates success. A value of **false** indicates failure.

The protocol server MUST return a value of **false** if there is a failure when replicating any data to the server.

3.1.4.39.3   Complex Types

None.

3.1.4.39.4   Simple Types

None.

3.1.4.39.5   Attributes

None.

3.1.4.39.6   Groups

None.

3.1.4.39.7   Attribute Groups

None.

3.1.4.40   SetRating

The **SetRating** operation specifies a **social rating** by the **current user** for a specified **URI**.

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

```
<wsdl:operation name="SetRating" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:SetRatingSoapIn"/>
  <wsdl:output message="tns:SetRatingSoapOut"/>
</wsdl:operation>
```

The protocol client sends a **SetRatingSoapIn** request message section 3.1.4.40.1.1() and the protocol server responds with a **SetRatingSoapOut** response message (section 3.1.4.40.1.2).

The protocol server MUST store the rating information, along with the time at which the rating was stored.

3.1.4.40.1   Messages

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

Message	Description
SetRatingSoapIn	The request WSDL message for the **SetRating WSDL operation**.
SetRatingSoapOut	The response WSDL message for the **SetRating** WSDL operation.

3.1.4.40.1.1 SetRatingSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/SetRating
```

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

3.1.4.40.1.2 SetRatingSoapOut

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

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

3.1.4.40.2 Elements

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

Element	Description
SetRating	The input data for the **SetRating WSDL operation**.
SetRatingResponse	The result data for the **SetRating** WSDL operation.

3.1.4.40.2.1 SetRating

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

```
<xs:element name="SetRating" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="rating" type="xs:int"/>
      <xs:element minOccurs="0" maxOccurs="1" name="title" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="analysisDataEntry"
type="tns:FeedbackData"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string type that specifies the **URL** of the item to apply the **social rating** to.

rating: An integer type that specifies the rating value for the item. This value MUST be an integer between 1 and 5 inclusive, where 1 is the lowest rating and 5 is the highest rating possible.

title: A string type that specifies the title of the social rating, as it appears to users. This value MUST be fewer than or equal to 500 characters.

analysisDataEntry: A **FeedbackData** complex type (section 3.1.4.40.3.1) that contains data about the social rating that is used to generate usage logging.

3.1.4.40.2.2   SetRatingResponse

The **SetRatingResponse** element specifies the result data for the **SetRating WSDL operation**.

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

SetRatingResult: A dateTime value that contains a **timestamp** indicating when the **social rating** was stored.

3.1.4.40.3   Complex Types

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

Complex type	Description
FeedbackData	Social rating data used to generate usage logging.

3.1.4.40.3.1 FeedbackData

Namespace: http://microsoft.com/webservices/SharePointPortalServer/SocialDataService

The **FeedbackData** complex type contains data about a **social rating** that is used to generate usage logging.

```
<xs:complexType name="FeedbackData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="BrowserSessionId" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CustomData"/>
    <xs:element minOccurs="1" maxOccurs="1" name="FeedbackAnswerId"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="1" maxOccurs="1" name="FeedbackAnswerNumericEquivalent"
type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="FeedbackAnswerText" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="FeedbackControlCulture" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="FeedbackIdentifier"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="1" maxOccurs="1" name="FeedbackQuestionId"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="FeedbackQuestionText" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsUserSatisfactionAnswer"
type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="QueryId"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="RatedAssetId" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="RatedAssetTitle" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="SampleRate" type="xs:unsignedByte"/>
```

```
    <xs:element minOccurs="1" maxOccurs="1" name="RatedAssetWebId"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="1" maxOccurs="1" name="SiteId"
xmlns:s1="http://microsoft.com/wsdl/types/" type="s1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserId" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserDepartment" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserTitle" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserVerbatim" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

BrowserSessionId: A string type that contains the identifier that was assigned to the instance of the Web browser session's **SessionId field (1)** that was active when the operation was called.

CustomData: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

FeedbackAnswerId: A GUID value that MUST be "a970c91c-28cb-4656-9b28-1fc1c9f87725".

FeedbackAnswerNumericEquivalent: An integer type that specifies the rating number to store. The value MUST be in the range of 0 to100 inclusive.

FeedbackAnswerText: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

FeedbackControlCulture: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

FeedbackIdentifier: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

FeedbackQuestionId: A GUID value that MUST be "b471a6c6-c2c6-412e-aa07-96b0ed29eb30".

FeedbackQuestionText: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

IsUserSatisfactionAnswer: A Boolean value that MUST be **true**.

QueryId: A GUID value that MUST be "00000000-0000-0000-0000-000000000000".

RatedAssetId: A string type that specifies the **URL** to which the feedback data applies. This value MUST be the same as the value of the **url** element of the **SetRating** request (section 3.1.4.40.2.1) that specified this **FeedbackData** complex type.

RatedAssetTitle: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

SampleRate: An unsigned byte value that MUST be 100.

RatedAssetWebId: A GUID type that identifies the **site** containing the item to which to apply the rating.

SiteId: A GUID type that identifies the site collection containing the item to which to apply the rating.

UserId: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

UserDepartment: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

UserTitle: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

UserVerbatim: Ignored. This element MUST NOT be set by client. The protocol server MUST ignore this value.

3.1.4.40.4 Simple Types

None.

3.1.4.40.5 Attributes

None.

3.1.4.40.6 Groups

None.

3.1.4.40.7 Attribute Groups

None.

3.1.4.41 UpdateComment

The **UpdateComment** operation updates an existing **social comment** at a specified **URI** that was created by the calling user with the specified last modified time.

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

```
<wsdl:operation name="UpdateComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:UpdateCommentSoapIn"/>
  <wsdl:output message="tns:UpdateCommentSoapOut"/>
</wsdl:operation>
```

The protocol client sends an **UpdateCommentSoapIn** request message (section 3.1.4.41.1.1) and the protocol server responds with an **UpdateCommentSoapOut** response message (section 3.1.4.41.1.2).

If the comment is not found at the specified URI created by the calling user with the specified time of last modification, the protocol server MUST return the current UTC time. The **Title** of a social comment cannot be updated using this operation.

3.1.4.41.1 Messages

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

Message	Description
UpdateCommentSoapIn	The request WSDL message for the **UpdateComment WSDL operation**.
UpdateCommentSoapOut	The response WSDL message for the **UpdateComment** WSDL operation.

3.1.4.41.1.1 UpdateCommentSoapIn

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

The **SOAP action** value is:

```
http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/UpdateComment
```

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

3.1.4.41.1.2 UpdateCommentSoapOut

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

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

3.1.4.41.2 Elements

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

Element	Description
UpdateComment	The input data for the **UpdateComment WSDL operation**.
UpdateCommentResponse	The result data for the **UpdateComment** WSDL operation.

3.1.4.41.2.1 UpdateComment

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

```
<xs:element name="UpdateComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="lastModifiedTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" maxOccurs="1" name="comment" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="isHighPriority" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

url: A string that specifies the **URI** that is associated with the **social comment** to update. This value MUST be fewer than 2085 characters and MUST be URI format.

lastModifiedTime: A **dateTime** value that indicates when the social comment to update was last modified.

comment: A string that contains the body of the social comment. This value MUST contain at least one character and fewer than 4001 characters.

isHighPriority: A Boolean that indicates the priority level of the social comment. A value of **true** indicates that the social comment is high priority. A value of **false** indicates that the social comment is normal priority.

3.1.4.41.2.2 UpdateCommentResponse

The **UpdateCommentResponse** element specifies the result data for the **UpdateComment WSDL operation**.

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

UpdateCommentResult: A dateTime value that indicates the UTC time when this operation was called.

3.1.4.41.3   Complex Types

None.

3.1.4.41.4   Simple Types

None.

3.1.4.41.5   Attributes

None.

3.1.4.41.6   Groups

None.

3.1.4.41.7   Attribute Groups

None.

3.1.5   Timer Events

None.

3.1.6   Other Local Events

None.

4 Protocol Examples

4.1 Add Social Data to a URI

In this scenario, the **current user** wants to add a **social comment** and a social tag to a Web page. The protocol client uses the **AddComment** (section 3.1.4.1) and **AddTagByKeyword** (section 3.1.4.3) operations to add the data.

The protocol client starts by sending the following **AddComment** request.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
       <AddComment
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
          <url>http://server.example.com/page</url>
          <comment>I enjoyed reading this page and will return to it later for
reference.</comment>
          <isHighPriority>false</isHighPriority>
          <title>Reference Page</title>
       </AddComment>
    </soap:Body>
</soap:Envelope>
```

The protocol server stores this information and sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
       <AddCommentResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
          <AddCommentResult>
             <Url>http://server.example.com/page</Url>
             <Owner>USERNAME</Owner>
             <LastModifiedTime>2009-05-08T19:32:27.847</LastModifiedTime>
             <Comment>I enjoyed reading this page and will return to it later for
reference.</Comment>
             <IsHighPriority>false</IsHighPriority>
             <Title>Reference Page</Title>
          </AddCommentResult>
       </AddCommentResponse>
    </soap:Body>
</soap:Envelope>
```

The user also wants to add a social tag. Therefore, the protocol client sends the following **AddTagByKeyword** request.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
       <AddTagByKeyword
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
          <url>http://server.example.com/page</url>
          <keyword>for future reference</keyword>
          <title>Reference Page</title>
```

```
            <isPrivate>false</isPrivate>
        </AddTagByKeyword>
    </soap:Body>
</soap:Envelope>
```

The protocol server stores this information and sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <AddTagByKeywordResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <AddTagByKeywordResult>
                <Url>http://server.example.com/page</Url>
                <Owner>USERNAME</Owner>
                <LastModifiedTime>2009-05-08T19:46:06.513</LastModifiedTime>
                <Term>
                    <Id>e62b6078-456f-4b4d-8497-c4037f54f9e8</Id>
                    <Name>for future reference</Name>
                </Term>
                <Title>Reference Page</Title>
                <IsPrivate>false</IsPrivate>
            </AddTagByKeywordResult>
        </AddTagByKeywordResponse>
    </soap:Body>
</soap:Envelope>
```

4.2   View Social Data Comments

In this scenario, the **current user** wants to see the number of **social comments** that they have added and the social comments that they have added to a specific page.

The protocol client starts by sending the following **CountCommentsOfUser** request (section 3.1.4.4).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOfUser
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <userAccountName>USERNAME</userAccountName>
        </CountCommentsOfUser>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOfUserResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <CountCommentsOfUserResult>3</CountCommentsOfUserResult>
        </CountCommentsOfUserResponse>
    </soap:Body>
```

```
        </soap:Envelope>
```

The protocol client then sends the following **CountCommentsOnUrl** request (section 3.1.4.6).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOnUrl
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/page</url>
        </CountCommentsOnUrl>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOnUrlResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <CountCommentsOnUrlResult>1</CountCommentsOnUrlResult>
        </CountCommentsOnUrlResponse>
    </soap:Body>
</soap:Envelope>
```

To verify that this social comment was added by the current user, the protocol client sends the following **CountCommentsOfUserOnUrl** request (section 3.1.4.5).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOfUserOnUrl
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <userAccountName>USERNAME</userAccountName>
            <url>http://server.example.com/page</url>
        </CountCommentsOfUserOnUrl>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <CountCommentsOfUserOnUrlResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <CountCommentsOfUserOnUrlResult>1</CountCommentsOfUserOnUrlResult>
        </CountCommentsOfUserOnUrlResponse>
    </soap:Body>
</soap:Envelope>
```

Finally, the protocol client requests the complete social comment for this **URI** by sending the following **GetCommentsOnUrl** request (section 3.1.4.20).

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetCommentsOnUrl
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/page</url>
            <maximumItemsToReturn>5</maximumItemsToReturn>
            <startIndex>0</startIndex>
            <excludeItemsTime>2009-05-07T00:00:00</excludeItemsTime>
        </GetCommentsOnUrl>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetCommentsOnUrlResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <GetCommentsOnUrlResult>
                <SocialCommentDetail>
                    <Url>http://server.example.com/page</Url>
                    <Owner>USERNAME</Owner>
                    <LastModifiedTime>2009-05-08T19:32:27.847</LastModifiedTime>
                    <Comment>I enjoyed reading this page and will return to it later for
reference.</Comment>
                    <IsHighPriority>false</IsHighPriority>
                    <Title>Reference Page</Title>
                </SocialCommentDetail>
            </GetCommentsOnUrlResult>
        </GetCommentsOnUrlResponse>
    </soap:Body>
</soap:Envelope>
```

4.3 Delete Social Data Comments

In this scenario, the **current user** wants to delete a **social comment** that they added. This example assumes that the protocol client knows the value of the **LastModifiedTime** element of the social comment to delete.

The protocol client starts by sending the following **DeleteComment** request (section 3.1.4.9) to the protocol server.

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <DeleteComment
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/page</url>
            <lastModifiedTime>2009-05-08T19:32:27.847</lastModifiedTime>
        </DeleteComment>
    </soap:Body>
```

```
    </soap:Envelope>
```

The protocol server deletes the social comment and sends the following response.

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
      <DeleteCommentResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService" />
    </soap:Body>
</soap:Envelope>
```

4.4   Find Social Data Tags

In this scenario, the **current user** wants to see a list of their social tags and other **URIs** that have the same social tags.

The protocol client starts by sending the following **GetTagsOfUser** request (section 3.1.4.29).

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
      <GetTagsOfUser
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
         <userAccountName>USERNAME</userAccountName>
         <maximumItemsToReturn>100</maximumItemsToReturn>
         <startIndex>0</startIndex>
      </GetTagsOfUser>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
      <GetTagsOfUserResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
        <GetTagsOfUserResult>
          <SocialTagDetail>
             <Url>http://server.example.com/page</Url>
             <Owner>USERNAME</Owner>
             <LastModifiedTime>2009-05-08T19:46:06.513</LastModifiedTime>
             <Term>
                <Id>e62b6078-456f-4b4d-8497-c4037f54f9e8</Id>
                <Name>for future reference</Name>
             </Term>
             <Title>Reference Page</Title>
             <IsPrivate>false</IsPrivate>
          </SocialTagDetail>
        </GetTagsOfUserResult>
      </GetTagsOfUserResponse>
    </soap:Body>
</soap:Envelope>
```

The current user is interested in other URIs that have the same social tag. To retrieve these URIs, the protocol client sends the following **GetTagUrls** request (section 3.1.4.33).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetTagUrls
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <termID>e62b6078-456f-4b4d-8497-c4037f54f9e8</termID>
        </GetTagUrls>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetTagUrlsResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <GetTagUrlsResult>
                <string>http://server.example.com/page</string>
                <string>http://server.example.com/page2</string>
            </GetTagUrlsResult>
        </GetTagUrlsResponse>
    </soap:Body>
</soap:Envelope>
```

4.5   Delete Social Data Tags

In this scenario, the **current user** wants to delete a **social tag** that they created, as described in the preceding examples. This example assumes that the protocol client has saved the value of the **termID** element for the social tag.

The protocol client sends the following **DeleteTag** request (section 3.1.4.11).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <DeleteTag
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/page</url>
            <termID>e62b6078-456f-4b4d-8497-c4037f54f9e8</termID>
        </DeleteTag>
    </soap:Body>
</soap:Envelope>
```

The protocol server deletes the specified social tag and sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
```

```
         <DeleteTagResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService" />
    </soap:Body>
</soap:Envelope>
```

4.6   Add Social Ratings to a URI

In this example, the **current user** wants to add a **social rating** to a **document**.

The protocol client does this by sending the following **SetRating** request (section 3.1.4.40).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <SetRating
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/document</url>
            <rating>5</rating>
            <title>Title</title>
            <analysisDataEntry>
              <BrowserSessionId></BrowserSessionId>
              <FeedbackAnswerId>a970c91c-28cb-4656-9b28-1fc1c9f87725</FeedbackAnswerId>
              <FeedbackAnswerNumericEquivalent>5</FeedbackAnswerNumericEquivalent>
             <FeedbackIdentifier>00000000-0000-0000-0000-000000000000</FeedbackIdentifier>
              <FeedbackQuestionId>b471a6c6-c2c6-412e-aa07-96b0ed29eb30</FeedbackQuestionId>
              <IsUserSatisfactionAnswer>1</IsUserSatisfactionAnswer>
              <QueryId>00000000-0000-0000-0000-000000000000</QueryId>
              <RatedAssetId>http://server.example.com/document</RatedAssetId>
              <SampleRate>100</SampleRate>
              <RatedAssetWebId>2a01a954-1db0-45c9-942a-38f0288c8591</RatedAssetWebId>
              <SiteId>58cdfd10-f3a7-4528-97e2-6fbe8a077aba</SiteId>
            </analysisDataEntry>
        </SetRating>
    </soap:Body>
</soap:Envelope>
```

The protocol server stores this information and sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <SetRatingResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <SetRatingResult>2009-05-08T23:59:06.17</SetRatingResult>
        </SetRatingResponse>
    </soap:Body>
</soap:Envelope>
```

4.7   Find Information about Social Ratings

In this scenario, the **current user** wants to see the average rating for a **document**, and then progressively get more information about the **social ratings** for that document and their social ratings for other documents.

The protocol client starts by sending the following **GetRatingAverageOnUrl** request (section 3.1.4.21).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingAverageOnUrl
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/document</url>
        </GetRatingAverageOnUrl>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingAverageOnUrlResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <GetRatingAverageOnUrlResult>
                <Url>http://server.example.com/document</Url>
                <Average>2.75</Average>
                <LastModifiedTime>2009-05-11T17:14:44.26</LastModifiedTime>
                <Count>4</Count>
                <CurrentUserRating>5</CurrentUserRating>
            </GetRatingAverageOnUrlResult>
        </GetRatingAverageOnUrlResponse>
    </soap:Body>
</soap:Envelope>
```

The current user now wants to see details for all four social ratings for the document. The protocol client sends the following **GetRatingsOnUrl** request (section 3.1.4.23).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingsOnUrl
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/document</url>
        </GetRatingsOnUrl>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingsOnUrlResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <GetRatingsOnUrlResult>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document</Url>
                    <Owner>USERNAME</Owner>
                    <LastModifiedTime>2009-05-08T23:59:06.17</LastModifiedTime>
                    <Title>Title</Title>
```

```
                    <Rating>5</Rating>
                </SocialRatingDetail>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document</Url>
                    <Owner>USERNAME1</Owner>
                    <LastModifiedTime>2009-05-11T17:14:43.683</LastModifiedTime>
                    <Title>Title2</Title>
                    <Rating>1</Rating>
                </SocialRatingDetail>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document</Url>
                    <Owner>USERNAME2</Owner>
                    <LastModifiedTime>2009-05-11T17:14:44.043</LastModifiedTime>
                    <Title>Title3</Title>
                    <Rating>2</Rating>
                </SocialRatingDetail>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document</Url>
                    <Owner>USERNAME3</Owner>
                    <LastModifiedTime>2009-05-11T17:14:44.26</LastModifiedTime>
                    <Title>Title4</Title>
                    <Rating>3</Rating>
                </SocialRatingDetail>
            </GetRatingsOnUrlResult>
        </GetRatingsOnUrlResponse>
    </soap:Body>
</soap:Envelope>
```

The current user now wants to know about all the social ratings that were added by a specific user. The protocol client sends the following **GetRatingsOfUser** request (section 3.1.4.24).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingsOfUser
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <userAccountName>USERNAME</userAccountName>
        </GetRatingsOfUser>
    </soap:Body>
</soap:Envelope>
```

The protocol server sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <GetRatingsOfUserResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <GetRatingsOfUserResult>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document</Url>
                    <Owner>USERNAME</Owner>
                    <LastModifiedTime>2009-05-08T23:59:06.17</LastModifiedTime>
                    <Title>Title</Title>
                    <Rating>5</Rating>
                </SocialRatingDetail>
                <SocialRatingDetail>
                    <Url>http://server.example.com/document2</Url>
                    <Owner>USERNAME</Owner>
                    <LastModifiedTime>2009-05-08T23:56:07.21</LastModifiedTime>
```

```
                <Title>Title2</Title>
                <Rating>4</Rating>
            </SocialRatingDetail>
        </GetRatingsOfUserResult>
    </GetRatingsOfUserResponse>
    </soap:Body>
</soap:Envelope>
```

4.8   Delete Social Ratings

In this example, the **current user** wants to delete one of their **social ratings**.

The protocol client sends the following **DeleteRating** request (section 3.1.4.10).

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <DeleteRating
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
            <url>http://server.example.com/document</url>
        </DeleteRating>
    </soap:Body>
</soap:Envelope>
```

The protocol server deletes the rating and sends the following response.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <DeleteRatingResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService" />
    </soap:Body>
</soap: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
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:s1="http://microsoft.com/wsdl/types/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:tns="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:documentation>Social Data Service</wsdl:documentation>
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService">
      <xs:import namespace="http://microsoft.com/wsdl/types/"/>
      <xs:element name="CountCommentsOfUser">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CountCommentsOfUserResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="CountCommentsOfUserResult"
type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CountCommentsOnUrl">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CountCommentsOnUrlResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="CountCommentsOnUrlResult"
type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CountCommentsOfUserOnUrl">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="url" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="CountCommentsOfUserOnUrlResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="CountCommentsOfUserOnUrlResult"
type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetCommentsOfUser">
        <xs:complexType>
          <xs:sequence>
```

```
            <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
            <xs:element minOccurs="1" maxOccurs="1" name="maximumItemsToReturn"
nillable="true" type="xs:int"/>
            <xs:element minOccurs="1" maxOccurs="1" name="startIndex" nillable="true"
type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetCommentsOfUserResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetCommentsOfUserResult"
type="tns:ArrayOfSocialCommentDetail"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:complexType name="ArrayOfSocialCommentDetail">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="SocialCommentDetail"
nillable="true" type="tns:SocialCommentDetail"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="SocialCommentDetail">
        <xs:complexContent mixed="false">
          <xs:extension base="tns:SocialDataDetail">
            <xs:sequence>
              <xs:element minOccurs="0" maxOccurs="1" name="Comment" type="xs:string"/>
              <xs:element minOccurs="1" maxOccurs="1" name="IsHighPriority"
type="xs:boolean"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="SocialDataDetail" abstract="true">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
          <xs:element minOccurs="0" maxOccurs="1" name="Owner" type="xs:string"/>
          <xs:element minOccurs="1" maxOccurs="1" name="LastModifiedTime"
type="xs:dateTime"/>
          <xs:element minOccurs="0" maxOccurs="1" name="Title" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
      <xs:element name="GetCommentsOnUrl">
        <xs:complexType>
          <xs:sequence>
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            <xs:sequence>
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        </xs:element>
        <xs:element name="DeleteTagResponse">
          <xs:complexType/>
        </xs:element>
        <xs:element name="DeleteTagByKeyword">
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            <xs:sequence>
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        <xs:element name="DeleteTagByKeywordResponse">
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        </xs:element>
        <xs:element name="DeleteTags">
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            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DeleteTagsResponse">
          <xs:complexType/>
        </xs:element>
        <xs:element name="GetSocialDataForIncrementalReplication">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="1" maxOccurs="1" name="startTime" type="xs:dateTime"/>
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        </xs:element>
        <xs:complexType name="SocialReplicationData">
          <xs:sequence>
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type="tns:ArrayOfSocialTagDetail"/>
            <xs:element minOccurs="0" maxOccurs="1" name="Comments"
type="tns:ArrayOfSocialCommentDetail"/>
            <xs:element minOccurs="0" maxOccurs="1" name="Ratings"
type="tns:ArrayOfSocialRatingDetail"/>
            <xs:element minOccurs="0" maxOccurs="1" name="DeletedTags"
type="tns:ArrayOfDeletedSocialTagDetail"/>
            <xs:element minOccurs="0" maxOccurs="1" name="DeletedComments"
type="tns:ArrayOfDeletedSocialCommentDetail"/>
            <xs:element minOccurs="0" maxOccurs="1" name="DeletedRatings"
type="tns:ArrayOfDeletedSocialRatingDetail"/>
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        <xs:complexType name="ArrayOfDeletedSocialTagDetail">
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            <xs:element minOccurs="0" maxOccurs="unbounded" name="DeletedSocialTagDetail"
nillable="true" type="tns:DeletedSocialTagDetail"/>
          </xs:sequence>
        </xs:complexType>
        <xs:complexType name="DeletedSocialTagDetail">
```

```xml
          <xs:complexContent mixed="false">
            <xs:extension base="tns:DeletedSocialDataDetail">
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                <xs:element minOccurs="1" maxOccurs="1" name="TermID" type="s1:guid"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
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            <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="Owner" type="xs:string"/>
            <xs:element minOccurs="1" maxOccurs="1" name="DeletedTime" type="xs:dateTime"/>
          </xs:sequence>
        </xs:complexType>
        <xs:complexType name="DeletedSocialRatingDetail">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:DeletedSocialDataDetail"/>
          </xs:complexContent>
        </xs:complexType>
        <xs:complexType name="DeletedSocialCommentDetail">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:DeletedSocialDataDetail">
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type="xs:dateTime"/>
              </xs:sequence>
            </xs:extension>
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        </xs:complexType>
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        </xs:complexType>
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nillable="true" type="tns:DeletedSocialRatingDetail"/>
          </xs:sequence>
        </xs:complexType>
        <xs:element name="GetSocialDataForIncrementalReplicationResponse">
          <xs:complexType>
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name="GetSocialDataForIncrementalReplicationResult" type="tns:SocialReplicationData"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetSocialDataForFullReplication">
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            <xs:sequence>
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            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetSocialDataForFullReplicationResponse">
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            <xs:sequence>
              <xs:element minOccurs="0" maxOccurs="1"
name="GetSocialDataForFullReplicationResult" type="tns:SocialReplicationData"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="ReplicateIncrementalSocialData">
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            <xs:sequence>
```

```
                <xs:element minOccurs="0" maxOccurs="1" name="changes"
type="tns:SocialReplicationData"/>
          </xs:sequence>
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      </xs:element>
      <xs:element name="ReplicateIncrementalSocialDataResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1"
name="ReplicateIncrementalSocialDataResult" type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReplicateFullSocialData">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="userAccountName" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="changes"
type="tns:SocialReplicationData"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReplicateFullSocialDataResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="1" maxOccurs="1" name="ReplicateFullSocialDataResult"
type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
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targetNamespace="http://microsoft.com/wsdl/types/">
      <xs:simpleType name="guid">
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          <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-
9a-fA-F]{12}"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="SocialDataServiceSoap">
    <wsdl:operation name="CountCommentsOfUser">
      <wsdl:input message="tns:CountCommentsOfUserSoapIn"/>
      <wsdl:output message="tns:CountCommentsOfUserSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="CountCommentsOnUrl">
      <wsdl:input message="tns:CountCommentsOnUrlSoapIn"/>
      <wsdl:output message="tns:CountCommentsOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="CountCommentsOfUserOnUrl">
      <wsdl:input message="tns:CountCommentsOfUserOnUrlSoapIn"/>
      <wsdl:output message="tns:CountCommentsOfUserOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetCommentsOfUser">
      <wsdl:input message="tns:GetCommentsOfUserSoapIn"/>
      <wsdl:output message="tns:GetCommentsOfUserSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetCommentsOnUrl">
      <wsdl:input message="tns:GetCommentsOnUrlSoapIn"/>
      <wsdl:output message="tns:GetCommentsOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetCommentsOfUserOnUrl">
      <wsdl:input message="tns:GetCommentsOfUserOnUrlSoapIn"/>
      <wsdl:output message="tns:GetCommentsOfUserOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddComment">
      <wsdl:input message="tns:AddCommentSoapIn"/>
      <wsdl:output message="tns:AddCommentSoapOut"/>
```

```
    </wsdl:operation>
    <wsdl:operation name="UpdateComment">
      <wsdl:input message="tns:UpdateCommentSoapIn"/>
      <wsdl:output message="tns:UpdateCommentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteComment">
      <wsdl:input message="tns:DeleteCommentSoapIn"/>
      <wsdl:output message="tns:DeleteCommentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="CountRatingsOnUrl">
      <wsdl:input message="tns:CountRatingsOnUrlSoapIn"/>
      <wsdl:output message="tns:CountRatingsOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetRatingsOfUser">
      <wsdl:input message="tns:GetRatingsOfUserSoapIn"/>
      <wsdl:output message="tns:GetRatingsOfUserSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetRatingsOnUrl">
      <wsdl:input message="tns:GetRatingsOnUrlSoapIn"/>
      <wsdl:output message="tns:GetRatingsOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetRatingOnUrl">
      <wsdl:input message="tns:GetRatingOnUrlSoapIn"/>
      <wsdl:output message="tns:GetRatingOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetRatingOfUserOnUrl">
      <wsdl:input message="tns:GetRatingOfUserOnUrlSoapIn"/>
      <wsdl:output message="tns:GetRatingOfUserOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="SetRating">
      <wsdl:input message="tns:SetRatingSoapIn"/>
      <wsdl:output message="tns:SetRatingSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteRating">
      <wsdl:input message="tns:DeleteRatingSoapIn"/>
      <wsdl:output message="tns:DeleteRatingSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetRatingAverageOnUrl">
      <wsdl:input message="tns:GetRatingAverageOnUrlSoapIn"/>
      <wsdl:output message="tns:GetRatingAverageOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="PropagateRating">
      <wsdl:input message="tns:PropagateRatingSoapIn"/>
      <wsdl:output message="tns:PropagateRatingSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="CountTagsOfUser">
      <wsdl:input message="tns:CountTagsOfUserSoapIn"/>
      <wsdl:output message="tns:CountTagsOfUserSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetTagTerms">
      <wsdl:input message="tns:GetTagTermsSoapIn"/>
      <wsdl:output message="tns:GetTagTermsSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetTagTermsOfUser">
      <wsdl:input message="tns:GetTagTermsOfUserSoapIn"/>
      <wsdl:output message="tns:GetTagTermsOfUserSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetTagTermsOnUrl">
      <wsdl:input message="tns:GetTagTermsOnUrlSoapIn"/>
      <wsdl:output message="tns:GetTagTermsOnUrlSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllTagTerms">
      <wsdl:input message="tns:GetAllTagTermsSoapIn"/>
      <wsdl:output message="tns:GetAllTagTermsSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetAllTagTermsForUrlFolder">
      <wsdl:input message="tns:GetAllTagTermsForUrlFolderSoapIn"/>
      <wsdl:output message="tns:GetAllTagTermsForUrlFolderSoapOut"/>
    </wsdl:operation>
```

```
<wsdl:operation name="GetTags">
  <wsdl:input message="tns:GetTagsSoapIn"/>
  <wsdl:output message="tns:GetTagsSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetTagsOfUser">
  <wsdl:input message="tns:GetTagsOfUserSoapIn"/>
  <wsdl:output message="tns:GetTagsOfUserSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetTagUrls">
  <wsdl:input message="tns:GetTagUrlsSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetTagUrlsByKeyword">
  <wsdl:input message="tns:GetTagUrlsByKeywordSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsByKeywordSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetTagUrlsOfUser">
  <wsdl:input message="tns:GetTagUrlsOfUserSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsOfUserSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetTagUrlsOfUserByKeyword">
  <wsdl:input message="tns:GetTagUrlsOfUserByKeywordSoapIn"/>
  <wsdl:output message="tns:GetTagUrlsOfUserByKeywordSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetAllTagUrls">
  <wsdl:input message="tns:GetAllTagUrlsSoapIn"/>
  <wsdl:output message="tns:GetAllTagUrlsSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetAllTagUrlsByKeyword">
  <wsdl:input message="tns:GetAllTagUrlsByKeywordSoapIn"/>
  <wsdl:output message="tns:GetAllTagUrlsByKeywordSoapOut"/>
</wsdl:operation>
<wsdl:operation name="AddTag">
  <wsdl:input message="tns:AddTagSoapIn"/>
  <wsdl:output message="tns:AddTagSoapOut"/>
</wsdl:operation>
<wsdl:operation name="AddTagByKeyword">
  <wsdl:input message="tns:AddTagByKeywordSoapIn"/>
  <wsdl:output message="tns:AddTagByKeywordSoapOut"/>
</wsdl:operation>
<wsdl:operation name="DeleteTag">
  <wsdl:input message="tns:DeleteTagSoapIn"/>
  <wsdl:output message="tns:DeleteTagSoapOut"/>
</wsdl:operation>
<wsdl:operation name="DeleteTagByKeyword">
  <wsdl:input message="tns:DeleteTagByKeywordSoapIn"/>
  <wsdl:output message="tns:DeleteTagByKeywordSoapOut"/>
</wsdl:operation>
<wsdl:operation name="DeleteTags">
  <wsdl:input message="tns:DeleteTagsSoapIn"/>
  <wsdl:output message="tns:DeleteTagsSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetSocialDataForIncrementalReplication">
  <wsdl:input message="tns:GetSocialDataForIncrementalReplicationSoapIn"/>
  <wsdl:output message="tns:GetSocialDataForIncrementalReplicationSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetSocialDataForFullReplication">
  <wsdl:input message="tns:GetSocialDataForFullReplicationSoapIn"/>
  <wsdl:output message="tns:GetSocialDataForFullReplicationSoapOut"/>
</wsdl:operation>
<wsdl:operation name="ReplicateIncrementalSocialData">
  <wsdl:input message="tns:ReplicateIncrementalSocialDataSoapIn"/>
  <wsdl:output message="tns:ReplicateIncrementalSocialDataSoapOut"/>
</wsdl:operation>
<wsdl:operation name="ReplicateFullSocialData">
  <wsdl:input message="tns:ReplicateFullSocialDataSoapIn"/>
  <wsdl:output message="tns:ReplicateFullSocialDataSoapOut"/>
</wsdl:operation>
</wsdl:portType>
```

```
   <wsdl:binding name="SocialDataServiceSoap" type="tns:SocialDataServiceSoap">
     <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
     <wsdl:operation name="CountCommentsOfUser">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCo
mmentsOfUser" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="CountCommentsOnUrl">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCo
mmentsOnUrl" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="CountCommentsOfUserOnUrl">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCo
mmentsOfUserOnUrl" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="GetCommentsOfUser">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetComm
entsOfUser" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="GetCommentsOnUrl">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetComm
entsOnUrl" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="GetCommentsOfUserOnUrl">
       <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetComm
entsOfUserOnUrl" style="document"/>
       <wsdl:input>
         <soap:body use="literal"/>
       </wsdl:input>
       <wsdl:output>
         <soap:body use="literal"/>
       </wsdl:output>
     </wsdl:operation>
     <wsdl:operation name="AddComment">
```

```
      <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/AddComm
ent" style="document"/>
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          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="UpdateComment">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/UpdateC
omment" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DeleteComment">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/DeleteC
omment" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="CountRatingsOnUrl">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountRa
tingsOnUrl" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetRatingsOfUser">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngsOfUser" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetRatingsOnUrl">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngsOnUrl" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetRatingOnUrl">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngOnUrl" style="document"/>
```

```
      <wsdl:input>
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      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRatingOfUserOnUrl">
      <soap:operation
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ngOfUserOnUrl" style="document"/>
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        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetRating">
      <soap:operation
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ng" style="document"/>
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        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DeleteRating">
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ating" style="document"/>
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        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRatingAverageOnUrl">
      <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngAverageOnUrl" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="PropagateRating">
      <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/Propaga
teRating" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CountTagsOfUser">
      <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountTa
gsOfUser" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
```

```
          <wsdl:output>
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          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetTagTerms">
          <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagT
erms" style="document"/>
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            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetTagTermsOfUser">
          <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagT
ermsOfUser" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetTagTermsOnUrl">
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagT
ermsOnUrl" style="document"/>
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        </wsdl:operation>
        <wsdl:operation name="GetAllTagTerms">
          <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetAllT
agTerms" style="document"/>
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            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetAllTagTermsForUrlFolder">
          <soap:operation
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agTermsForUrlFolder" style="document"/>
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          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
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" style="document"/>
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          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
```

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      </wsdl:operation>
      <wsdl:operation name="GetTagsOfUser">
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTags
OfUser" style="document"/>
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      </wsdl:operation>
      <wsdl:operation name="GetTagUrls">
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rls" style="document"/>
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        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetTagUrlsByKeyword">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetTagU
rlsByKeyword" style="document"/>
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        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetTagUrlsOfUser">
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rlsOfUser" style="document"/>
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      <wsdl:operation name="GetTagUrlsOfUserByKeyword">
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      <wsdl:operation name="GetAllTagUrls">
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        </wsdl:output>
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      <wsdl:operation name="GetAllTagUrlsByKeyword">
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    </wsdl:operation>
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style="document"/>
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agByKeyword" style="document"/>
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        <soap:body use="literal"/>
      </wsdl:output>
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ags" style="document"/>
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      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSocialDataForIncrementalReplication">
      <soap:operation
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alDataForIncrementalReplication" style="document"/>
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    </wsdl:operation>
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    <wsdl:operation name="ReplicateIncrementalSocialData">
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teIncrementalSocialData" style="document"/>
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    </wsdl:operation>
    <wsdl:operation name="ReplicateFullSocialData">
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teFullSocialData" style="document"/>
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mmentsOfUser" style="document"/>
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        <soap12:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CountCommentsOnUrl">
      <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCo
mmentsOnUrl" style="document"/>
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        <soap12:body use="literal"/>
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    </wsdl:operation>
    <wsdl:operation name="CountCommentsOfUserOnUrl">
      <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountCo
mmentsOfUserOnUrl" style="document"/>
```

```
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      </wsdl:input>
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    <wsdl:operation name="GetCommentsOfUser">
      <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetComm
entsOfUser" style="document"/>
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetComm
entsOnUrl" style="document"/>
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entsOfUserOnUrl" style="document"/>
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    </wsdl:operation>
    <wsdl:operation name="AddComment">
      <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/AddComm
ent" style="document"/>
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    </wsdl:operation>
    <wsdl:operation name="UpdateComment">
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/UpdateC
omment" style="document"/>
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        <soap12:body use="literal"/>
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    </wsdl:operation>
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omment" style="document"/>
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```
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tingsOnUrl" style="document"/>
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    <wsdl:operation name="GetRatingsOfUser">
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ngsOfUser" style="document"/>
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ngsOnUrl" style="document"/>
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngOnUrl" style="document"/>
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetRati
ngOfUserOnUrl" style="document"/>
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    </wsdl:operation>
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ng" style="document"/>
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        <soap12:body use="literal"/>
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      </wsdl:operation>
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ating" style="document"/>
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      <wsdl:operation name="GetRatingAverageOnUrl">
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ngAverageOnUrl" style="document"/>
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teRating" style="document"/>
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soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/CountTa
gsOfUser" style="document"/>
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ermsOfUser" style="document"/>
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      </wsdl:operation>
      <wsdl:operation name="GetTagTermsOnUrl">
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ermsOnUrl" style="document"/>
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agTerms" style="document"/>
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rls" style="document"/>
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        </wsdl:input>
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      </wsdl:operation>
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        <soap12:operation
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rlsByKeyword" style="document"/>
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      </wsdl:input>
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rlsOfUser" style="document"/>
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      <soap12:operation
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style="document"/>
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    <wsdl:operation name="AddTagByKeyword">
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yKeyword" style="document"/>
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      <soap12:operation
soapAction="http://microsoft.com/webservices/SharePointPortalServer/SocialDataService/GetSoci
alDataForIncrementalReplication" style="document"/>
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alDataForFullReplication" style="document"/>
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    <wsdl:operation name="ReplicateIncrementalSocialData">
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teIncrementalSocialData" style="document"/>
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      </wsdl:operation>
      <wsdl:operation name="ReplicateFullSocialData">
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teFullSocialData" style="document"/>
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        </wsdl:input>
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    </wsdl:message>
    <wsdl:message name="AddCommentSoapOut">
      <wsdl:part name="parameters" element="tns:AddCommentResponse"/>
    </wsdl:message>
    <wsdl:message name="AddTagByKeywordSoapIn">
      <wsdl:part name="parameters" element="tns:AddTagByKeyword"/>
    </wsdl:message>
    <wsdl:message name="AddTagByKeywordSoapOut">
      <wsdl:part name="parameters" element="tns:AddTagByKeywordResponse"/>
    </wsdl:message>
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      <wsdl:part name="parameters" element="tns:AddTag"/>
    </wsdl:message>
    <wsdl:message name="AddTagSoapOut">
      <wsdl:part name="parameters" element="tns:AddTagResponse"/>
    </wsdl:message>
    <wsdl:message name="CountCommentsOfUserOnUrlSoapIn">
      <wsdl:part name="parameters" element="tns:CountCommentsOfUserOnUrl"/>
    </wsdl:message>
    <wsdl:message name="CountCommentsOfUserOnUrlSoapOut">
      <wsdl:part name="parameters" element="tns:CountCommentsOfUserOnUrlResponse"/>
    </wsdl:message>
    <wsdl:message name="CountCommentsOfUserSoapIn">
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7   Appendix B: Product Behavior

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

- Microsoft Lync 2010

- Microsoft Office 2010 suites

- Microsoft SharePoint Designer 2010

- Microsoft SharePoint Server 2010

- Microsoft SharePoint Workspace 2010

- Microsoft Visio 2010

- Microsoft Lync Client 2013/Skype for Business

- Microsoft Office 2013

- Microsoft SharePoint Designer 2013

- Microsoft Visio 2013

- Microsoft SharePoint Server 2013

- Microsoft Office 2016

- Microsoft Visio 2016

- Microsoft SharePoint Server 2016

- Microsoft Office 2019 Preview

- Microsoft SharePoint Server 2019 Preview

- Microsoft Visio 2019 Preview

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.

8 Change Tracking

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

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

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

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

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

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

Section	Description	Revision class
7 Appendix B: Product Behavior	Updated list of supported products.	Major

9 Index