[MS-SPSETWS]:

SharePoint Subscription Settings Web Service Protocol

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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	Minor	Updated 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	Minor	Clarified the meaning of the technical content.
9/27/2010	1.05	No Change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.05	No Change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.05	No Change	No changes to the meaning, language, or formatting of the technical content.
3/18/2011	1.05	No Change	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	1.05	No Change	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	No Change	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	2.0	No Change	No changes to the meaning, language, or formatting of the technical content.
9/12/2012	2.0	No Change	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	2.0	No Change	No changes to the meaning, language, or formatting of the technical content.
2/11/2013	2.0	No Change	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	2.1	Minor	Clarified the meaning of the technical content.
11/18/2013	2.2	Minor	Clarified the meaning of the technical content.
2/10/2014	2.2	No Change	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	2.2	No Change	No changes to the meaning, language, or formatting of the technical content.

Date	Revision History	Revision Class	Comments
7/31/2014	2.2	No Change	No changes to the meaning, language, or formatting of the technical content.
8/24/2015	3.0	Major	Significantly changed the technical content.

Table of Contents

1 Introduction

The SharePoint Subscription Settings Web Service Protocol enables configuration data sharing within a set of site collections. This protocol is typically used for hosting scenarios.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [RFC2119]. Sections 1.5 and 1.9 are also normative but do not contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are specific to this document:

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

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

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

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

property set: A set of attributes (1), identified by a **GUID**. Granting access to a property set grants access to all the attributes in the set.

root element: The top-level element in an XML document. It contains all other elements and is not contained by any other element, as described in [XML].

site collection: A set of websites (1) that are in the same content database, have the same owner, and share administration settings. A site collection can be identified by a **GUID** or the URL of the top-level site for the site collection. Each site collection contains a top-level site, can contain one or more subsites, and can have a shared navigational structure.

site subscription: A logical grouping of **site collections** that share a common set of features and service data.

site subscription identifier: A GUID that is used to identify a site subscription.

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.

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].

version stamp: A monotonically increasing integer that serves as the version of a configuration object.

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 fragment: Lines of text that adhere to XML tag rules, as described in [XML], but do not have a Document Type Definition (DTD) or schema, processing instructions, or any other header information.

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

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

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

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

1.2   References

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

1.2.1 Normative References

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

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

[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", 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

[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

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

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

[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

1.3   Protocol Overview (Synopsis)

Site collections use shared configuration data in enterprise and hosting scenarios. This protocol enables delegation of certain configuration data for this group of site collections to additional administrators.

To facilitate these scenarios, this protocol can set, remove, and read **property sets** for a particular set of site collections.

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:
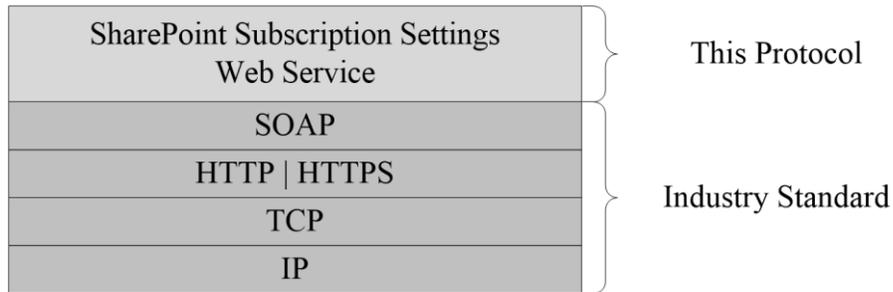
Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

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

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

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

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

1.6 Applicability Statement

None.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

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

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

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

Protocol servers MUST support SOAP over HTTP or HTTPS.

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

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

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

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

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

2.2 Common Message Syntax

This section specifies messages that are used by several operations in this protocol. The syntax uses the **XML schema** as specified in [XMLSCHEMA1] and [XMLSCHEMA2], and the Web Services Description Language 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
ser	http://schemas.microsoft.com/2003/10/Serialization/	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.datacontract.org/2004/07/Microsoft.SharePoint	
tns1	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
tns2	http://tempuri.org/	
tns3	http://tempuri.org/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [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
SPSubscriptionMetadata	The **SPSubscriptionMetadata** Identifies metadata about a subscription such as its name.
SPSubscriptionSettingsActionFault	The **SPSubscriptionSettingsActionFault** element specifies a SOAP fault.
SPSubscriptionSettingsPropertySet	The **SPSubscriptionSettingsPropertySet** element contains the set of information that specifies a property set.
SPSubscriptionSettingsPropertySetInfo	The **SPSubscriptionSettingsPropertySetInfo** element specifies the subset of metadata for a property set.
SPSubscriptionSettingsPropertySetResult	The **SPSubscriptionSettingsPropertySetResult** element specifies a subset of metadata for a property set.

2.2.4.1 SPSubscriptionSettingsActionFault

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionSettingsActionFault** element specifies a SOAP fault.

```
<xs:complexType name="SPSubscriptionSettingsActionFault"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="m faultType"
type="tns:SPSubscriptionSettingsActionFaultType"/>
    <xs:element minOccurs="0" name="m message" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

m_faultType: This element contains the type of the SOAP fault. It MUST conform to the XML schema of the **SPSubscriptionSettingsActionFaultType** specified in section 2.2.5.4.

m_message: This element is a string that specifies the SOAP fault.

2.2.4.2 SPSubscriptionSettingsPropertySet

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionSettingsPropertySet** element contains the set of information that specifies a property set.

```
<xs:complexType name="SPSubscriptionSettingsPropertySet"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
    <xs:element minOccurs="0" name="m_TypeId" type="ser:guid"/>
    <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
    <xs:element minOccurs="0" name="m_Xml" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

m_PropertySetId: This element contains the **GUID** of the property set.

m_TypeId: This element contains the GUID of the type of the property set.

m_Version: This element contains the **version stamp** of the property set.

m_Xml: This element contains the list of property names and values contained in the property set. It MUST conform to the Subscription Settings Property Set XML schema as specified in section 2.2.4.6.

2.2.4.3 SPSubscriptionSettingsPropertySetInfo

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionSettingsPropertySetInfo** element specifies the subset of metadata for a property set.

```
<xs:complexType name="SPSubscriptionSettingsPropertySetInfo"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
    <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
```

m_PropertySetId: This element contains the GUID of the property set.

m_Version: This element contains the version stamp of the property set.

2.2.4.4 SPSubscriptionSettingsPropertySetResult

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionSettingsPropertySetResult** element specifies a subset of metadata for a property set.

```
<xs:complexType name="SPSubscriptionSettingsPropertySetResult"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="m_Exists" type="xs:boolean"/>
    <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
    <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
    <xs:element minOccurs="0" name="m_Xml" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

m_Exists: This element specifies whether the property set exists. If the value is **FALSE**, the remaining members in this structure MUST be ignored.

m_PropertySetId: This element contains the GUID of the property set.

m_Version: The version stamp of the property set.

m_Xml: This element contains the list of property names and values contained in the property set. It MUST conform to the Subscription Settings Property Set XML schema as specified in section 2.2.4.6.

2.2.4.5 SPSubscriptionMetadata

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionMetadata** Identifies metadata about a subscription such as its name.

```
<xs:complexType name="SPSubscriptionMetadata" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="m_name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="m_subscriptionId" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

m_name: This element contains the **site subscription name** which is a series of characters uniquely identifying the implementation-specific **site subscription** for a **site collection**.

m_subscriptionId: This element contains the **site subscription identifier**.

2.2.4.6 Subscription Settings Property Set XML

A Unicode string which MUST conform to the following XML schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema id="object" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="entries">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="entry" minOccurs="0" maxOccurs="unbounded" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

entries: The **root element** of the **XML fragment**.

entry: A name/value pair. The semantic meaning of the pair is defined by sub-protocols which implement this protocol.

Each **entry** element MUST conform to one of the XML schemas described in the following sub-sections.

2.2.4.6.1 nullEntry

An **entry** with no value.

```
<xs:complexType name="nullEntry">
  <xs:attribute name="name" type="xs:string" use="required" />
  <xs:attribute name="nil" type="xs:string" use="required" fixed="true" />
```

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

name: The name of the **entry**.

nil: The attribute that indicates an entry with no value.

2.2.4.6.2 stringEntry

An **entry** that specifies a string value.

```
<xs:complexType name="stringEntry">
  <xs:simpleContent>
    <xs:extension base="xs:string" >
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="string" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

If the type identifier of a property set is "47EF919C-588D-4cfc-A552-762F746A5127", the value of this field MUST be a semi-colon delimited list of GUIDs or an empty string.

2.2.4.6.3 intEntry

An **entry** that specifies an integer value.

```
<xs:complexType name="intEntry">
  <xs:simpleContent>
    <xs:extension base="xs:int" >
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="int" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

2.2.4.6.4 longEntry

An **entry** that specifies a long value.

```
<xs:complexType name="longEntry">
  <xs:simpleContent>
    <xs:extension base="xs:long" >
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="long" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

2.2.4.6.5 booleanEntry

An **entry** that specifies a Boolean value.

```
<xs:complexType name="booleanEntry">
  <xs:simpleContent>
    <xs:extension base="xs:boolean" >
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="boolean" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

2.2.4.6.6 guidEntry

An **entry** that specifies a GUID value.

```
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="\{[0-9A-F]{8}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{4}-[0-9A-F]{12}\}"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="guidEntry">
  <xs:simpleContent>
    <xs:extension base="guid" >
      <xs:attribute name="name" type="xs:string" use="required" />
      <xs:attribute name="type" type="xs:string" use="required" fixed="guid" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

2.2.4.6.7 datetimeEntry

An **entry** that specifies a **DateTime** value.

```
<xs:complexType name="datetimeEntry">
<xs:simpleContent>
  <xs:extension base="xs:long" >
    <xs:attribute name="name" type="xs:string" use="required" />
    <xs:attribute name="type" type="xs:string" use="required" fixed="sp-dateTime" />
  </xs:extension>
</xs:simpleContent>
</xs:complexType>
```

name: The name of the **entry**.

type: The type of the **entry**.

The value of this field MUST conform to the **DateTime** bit field as specified in section 2.2.4.6.7.1.

2.2.4.6.7.1 DateTime Bit Field

The **DateTime** bit field is a 64-bit value that MUST conform to the following model.

0	1	2	3	4	5	6	7	8	9	1 0	1	2	3	4	5	6	7	8	9	2 0	1	2	3	4	5	6	7	8	9	3 0	1
Kind															Ticks																
…																															

Kind (2 bits): The type of the **DateTime**. This value MUST be listed in the following table.

Value	Description
0x1	Coordinated Universal Time (UTC)
0x2	Local Time

Ticks (62 bits): The number of 100 nanosecond intervals that have elapsed between 12:00:00 midnight on January 1, 0001 and the date and time specified in Coordinated Universal Time (UTC).

2.2.5 Simple Types

The following table summarizes the set of common XML schema simple type definitions defined by this specification. XML schema simple type definitions that are specific to a particular operation are described with the operation.

Simple type	Description
char	A simple type used to represent a Unicode character. This type MUST NOT be used by this protocol.
duration	The **duration** simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second. This type MUST NOT be used by this protocol.
guid	The **guid** element specifies the unique identifier.<1>
SPSubscriptionSettingsActionFaultType	The **SPSubscriptionSettingsActionFaultType** element specifies the error condition that triggered the SOAP fault.

2.2.5.1 char

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

A simple type used to represent a Unicode character. This type MUST NOT be used by this protocol.

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

2.2.5.2 duration

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

The **duration** simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second. This type MUST NOT be used by this protocol.

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

2.2.5.3 guid

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

The **guid** element specifies the unique identifier.<2>

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

2.2.5.4 SPSubscriptionSettingsActionFaultType

Namespace: http://schemas.datacontract.org/2004/07/Microsoft.SharePoint

The **SPSubscriptionSettingsActionFaultType** element specifies the error condition that triggered the SOAP fault.

```
<xs:simpleType name="SPSubscriptionSettingsActionFaultType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ArgumentOutOfRangeException"/>
    <xs:enumeration value="ArgumentNullException"/>
    <xs:enumeration value="SPDatabaseException"/>
    <xs:enumeration value="SPDeletedConcurrencyException"/>
    <xs:enumeration value="SPUpdatedConcurrencyException"/>
    <xs:enumeration value="ArgumentException"/>
    <xs:enumeration value="SPException"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
ArgumentOutOfRangeException	An argument in the input WSDL message was not in the expected range of values.
ArgumentNullException	An argument in the input WSDL message was NULL.

Value	Meaning
SPDatabaseException	An unexpected database error occurred on the protocol server while processing the SOAP request.
SPDeletedConcurrencyException	The SOAP request attempted processing an object that was not found by the protocol server.
SPUpdatedConcurrencyException	The SOAP request attempted processing an object in the protocol server that was simultaneously updated by another request.
ArgumentException	An argument in the input WSDL message was invalid
SPException	An unexpected error occurred on the protocol server while processing the SOAP request.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

3.1 Server Details

3.1.1 Abstract Data Model

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

The protocol server maintains a list of property sets and their mappings to site subscription identifiers. The protocol server adds, changes, and deletes property set objects and their mappings from this list in response to messages from the protocol client.

There are three types of property sets: properties, administrative properties, and feature set. The properties type stores collections of settings, the administrative properties type stores values specifically for the system administrator(s), and the feature set type stores a list of identifiers that filter end user functionality. Each site subscription identifier can be associated with one of each property set type. The property set type is contained in the **m_TypeId** element.

Every property set is associated with exactly one identifier, type identifier, and version stamp. A property set is uniquely identified by the combination of its property set GUID and type identifier.

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
DeleteMapping	The **DeleteMapping** operation deletes the mapping of the site subscription identifier and the property set type identifier specified in the input message.
DeletePropertySet	The **DeletePropertySet** operation deletes the property set with the specified property set identifier and type identifier from the protocol server. It also deletes all associated mappings.
DeleteSubscriptionMetadata	The **DeleteSubscriptionMetadata** operation removes metadata associated with the subscription specified in the input message.
GetPropertySet	The **GetPropertySet** operation returns the property set specified by the property set identifier and the type identifier in the input

Operation	Description
	message.
GetPropertySetIds	The **GetPropertySetId** operation returns an array of property set identifiers of the property sets that contain the type identifier specified in the input message.
GetSubscriptionMetadata	The **GetSubscriptionMetadata** operation retrieves metadata associated with the subscription specified in the input message.
GetSubscriptionNextAppSiteDomainId	The **GetSubscriptionNextAppSiteDomainId** operation is deprecated from the protocol and MUST NOT be called.
GetSubscriptionPropertySet	The **GetSubscriptionPropertySet** operation returns the property set with the specified type identifier and maps to the site subscription identifier specified in the input message.
PutSubscriptionMetadata	The **PutSubscriptionMetadata** operation updates metadata associated with the subscription specified in the input message.
SetMapping	The **SetMapping** operation creates or updates the mapping of the property set type identifier and the site subscription identifier elements to the property set identifier specified in the input message.
SetPropertySet	The **SetPropertySet** operation creates a new property set or updates an existing property set.
SetSubscriptionPropertySet	The **SetSubscriptionPropertySet** operation creates a new property set and a new mapping between it and the site subscription identifier specified in the input message.

3.1.4.1 DeleteMapping

The **DeleteMapping** operation deletes the mapping of the site subscription identifier and the property set type identifier specified in the input message.

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

```
<wsdl:operation name="DeleteMapping" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMapping"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMappingResponse
" message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMappingSPSubscr
iptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_SPSubscriptionSettingsAct
ionFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage request WSDL message and the protocol server MUST respond with an

ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage response WSDL message as follows:

1. If the specified site subscription identifier or type identifier are empty, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If the mapping between the specified site subscription identifier and type identifier exists, the protocol server MUST delete the mapping.

3. If the mapping between the specified site subscription identifier and the type identifier does not exist, the state of the protocol server MUST NOT change.

4. If the mapping exists and was not deleted, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "SPDatabaseException".

3.1.4.1.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage	The request WSDL message for the **DeleteMapping** WSDL operation.
ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage	The response WSDL message for the **DeleteMapping** WSDL operation.

3.1.4.1.1.1 ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage

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

The **SOAP action** value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMapping
```

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

3.1.4.1.1.2 ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage

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

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

3.1.4.1.2 Elements

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

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

Element	Description
DeleteMappingResponse	The result data for the **DeleteMapping** WSDL operation.

3.1.4.1.2.1 DeleteMapping

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

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

subscriptionId: This element contains the site subscription identifier.

typeId: This element contains the property set type identifier.

3.1.4.1.2.2 DeleteMappingResponse

The **DeleteMappingResponse** element specifies the result data for the **DeleteMapping** WSDL operation.

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

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 DeletePropertySet

The **DeletePropertySet** operation deletes the property set with the specified property set identifier and type identifier from the protocol server. It also deletes all associated mappings.

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

```
<wsdl:operation name="DeletePropertySet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySetResp
onse" message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySetSPSu
bscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_SPSubscriptionSetting
sActionFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage request WSDL message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage response WSDL message as follows:

1. If the specified property set identifier or type identifier are empty, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If a property set with the specified property set identifier and type identifier exists, and the specified version stamp does not match the version stamp of the stored property set, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "SPUpdatedConcurrencyException".

3. If a property set with the specified property set identifier and type identifier does not exist, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "SPDeletedConcurrencyException".

4. If the property set exists with the specified property set identifier, type identifier and version stamp, the protocol server MUST delete the property set. The protocol server MUST also delete all mappings associated with the property set.

5. If the property set or the associated mappings cannot be deleted, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "SPDatabaseException". The state of the protocol server MUST NOT change in this case.

3.1.4.2.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage	The request WSDL

Message	Description
	message for the **DeletePropertySet** WSDL operation.
ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage	The response WSDL message for the **DeletePropertySet** WSDL operation.

3.1.4.2.1.1 ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySet
```

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

3.1.4.2.1.2 ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage

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

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

3.1.4.2.2 Elements

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

Element	Description
DeletePropertySet	The input data for the **DeletePropertySet** WSDL operation.
DeletePropertySetResponse	The result data for the **DeletePropertySet** WSDL operation.

3.1.4.2.2.1 DeletePropertySet

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

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

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

propertySetId: This element contains the identifier of the property set.

typeId: This element contains the type identifier of the property set.

version: This element contains the version stamp of the property set.

3.1.4.2.2.2 DeletePropertySetResponse

The **DeletePropertySetResponse** element specifies the result data for the **DeletePropertySet** WSDL operation.

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

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 GetPropertySet

The **GetPropertySet** operation returns the property set specified by the property set identifier and the type identifier in the input message.

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

```
<wsdl:operation name="GetPropertySet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetRespons
e" message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetSPSubsc
riptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
```

```
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_SPSubscriptionSettingsAc
tionFaultFault FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage request WSDL
message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage response WSDL
message as follows:

1. If the property set identifier or the type identifier that are specified in the input message are
   empty, the protocol server MUST return an **SPSubscriptionSettingsActionFault** SOAP fault with
   the **SPSubscriptionSettingsActionFaultType** element set to the value
   "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If the property set with the specified property set identifier and type identifier specified in the
   input message exists, the protocol server MUST return a response element of type
   SPSubscriptionSettingsPropertySetResult as specified in section 2.2.4.4. It contains
   information about the property set, and the **m_Exists** element is set to **TRUE**.

3. If the property set with the property set identifier and type identifier specified in the input
   message does not exist, the protocol server MUST return a response element of type
   SPSubscriptionSettingsPropertySetResult with the **m_Exists** element set to **FALSE**.

3.1.4.3.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage	The request WSDL message for the **GetPropertySet** WSDL operation.
ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage	The response WSDL message for the **GetPropertySet** WSDL operation.

3.1.4.3.1.1 ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySet
```

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

3.1.4.3.1.2 ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage

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

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

3.1.4.3.2 Elements

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

Element	Description
GetPropertySet	The input data for the **GetPropertySet** WSDL operation.
GetPropertySetResponse	The result data for the **GetPropertySet** WSDL operation.

3.1.4.3.2.1 GetPropertySet

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

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

propertySetId: This element contains the identifier of the property set.

typeId: This element contains the type identifier of the property set.

3.1.4.3.2.2 GetPropertySetResponse

The **GetPropertySetResponse** element specifies the result data for the **GetPropertySet** WSDL operation.

```
<xs:element name="GetPropertySetResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetPropertySetResult: This element contains information about the property set with the specified identifier and type identifier. This element MUST conform to the XML schema of the **SPSubscriptionSettingsPropertySetResult** element as specified in section 2.2.4.4.

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 GetPropertySetIds

The **GetPropertySetId** operation returns an array of property set identifiers of the property sets that contain the type identifier specified in the input message.

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

```
<wsdl:operation name="GetPropertySetIds" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIds"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIdsResp
onse" message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIdsSPSu
bscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_SPSubscriptionSetting
sActionFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage request WSDL message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage response WSDL message as follows:

1. If the property set type identifier specified in the input message is empty, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If an error occurs when retrieving property sets of the specified type identifier, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "SPDatabaseException" as specified in section 2.2.5.4.

3. If property sets of the specified type identifier exist, the protocol server MUST return an array of GUIDs of all such property sets as specified in section 3.1.4.4.3.1.

4. If a property set of the specified type identifier does not exist, the protocol server MUST return an empty array of GUIDs.

3.1.4.4.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage	The request WSDL message for the **GetPropertySetIds** WSDL operation.
ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage	The response WSDL message for the **GetPropertySetIds** WSDL operation.

3.1.4.4.1.1 ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIds
```

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

3.1.4.4.1.2 ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage

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

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

3.1.4.4.2 Elements

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

Element	Description
GetPropertySetIds	The input data for the **GetPropertySetIds** WSDL operation.
GetPropertySetIdsResponse	The result data for the **GetPropertySetIds** WSDL operation.

3.1.4.4.2.1 GetPropertySetIds

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

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

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

typeId: This element contains the type identifier of the property sets.

3.1.4.4.2.2 GetPropertySetIdsResponse

The **GetPropertySetIdsResponse** element specifies the result data for the **GetPropertySetIds** WSDL operation.

```
<xs:element name="GetPropertySetIdsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetPropertySetIdsResult" nillable="true" type="tns1:ArrayOfguid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetPropertySetIdsResult: This element is an array of GUIDs of property sets with the type identifier specified in the input message. This element MUST conform to the XML schema of the **ArrayOfguid** element specified in section 3.1.4.4.3.1.

3.1.4.4.3 Complex Types

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

Complex type	Description
ArrayOfguid	An array of identifiers of property sets

3.1.4.4.3.1 ArrayOfguid

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

The **Arrayofguid** element is an array of identifiers of property sets.

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

guid: This element contains the identifier of a property set.

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 GetSubscriptionPropertySet

The **GetSubscriptionPropertySet** operation returns the property set with the specified type identifier and maps to the site subscription identifier specified in the input message.

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

```
<wsdl:operation name="GetSubscriptionPropertySet"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySet"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySetResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySetSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_SPSubscripti
onSettingsActionFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage** request WSDL message and the protocol server MUST respond with an **ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessage** response WSDL message as follows:

1. If the property set type identifier or the site subscription identifier specified in the input message are null, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** set to the value "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If a property set with the type identifier specified in the input message exists, and the property set has a mapping to the specified site subscription identifier, the protocol server sets the **m_Exists** element set to **TRUE** and MUST return a response message of type **SPSubscriptionSettingsPropertySetResult** as specified in section 2.2.4.4. The response message contains information about the property set.

3. If a mapping for the specified type identifier and site subscription identifier specified in the input message does not exist, or if the property set associated with the mapping for the site subscription identifier and type identifier does not exist, the protocol server MUST return a response element of type **SPSubscriptionSettingsPropertySetResult** with the **m_Exists** element set to **FALSE**.

3.1.4.5.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage	The request WSDL message for the **GetSubscriptionPropertySet** WSDL operation.
ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessage	The response WSDL message for the **GetSubscriptionPropertySet** WSDL operation.

3.1.4.5.1.1 ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionPropertySet
```

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

3.1.4.5.1.2 ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessage

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

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

3.1.4.5.2 Elements

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

Element	Description
GetSubscriptionPropertySet	The input data for the **GetSubscriptionPropertySet** WSDL operation.
GetSubscriptionPropertySetResponse	The result data for the **GetSubscriptionPropertySet** WSDL operation.

3.1.4.5.2.1 GetSubscriptionPropertySet

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

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

```
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

subscriptionId: The site subscription identifier.

typeId: The type identifier of the property set.

3.1.4.5.2.2   GetSubscriptionPropertySetResponse

The **GetSubscriptionPropertySetResponse** element specifies the result data for the
GetSubscriptionPropertySet WSDL operation.

```
<xs:element name="GetSubscriptionPropertySetResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetSubscriptionPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSubscriptionPropertySetResult: This element contains information about the property set with
the specified type identifier that has a mapping to the specified site subscription identifier. This
element MUST conform to the XML schema of the **SPSubscriptionSettingsPropertySetResult**
element specified in section 2.2.4.4.

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 SetMapping

The **SetMapping** operation creates or updates the mapping of the property set type identifier and the
site subscription identifier elements to the property set identifier specified in the input message.

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

```
<wsdl:operation name="SetMapping" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMapping"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMappingResponse"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMappingSPSubscript
ionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_SPSubscriptionSettingsAction
FaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_SetMapping_InputMessage request WSDL message
and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage response WSDL
message as follows:

1. If the property set identifier, the property set type identifier or the site subscription identifier in
   the input message are empty, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value
   "ArgumentOutOfRangeException" as specified in section 2.2.5.4.

2. If the property set identifier and property set type identifier are not empty, the property set
   identifier MUST be a property set identifier returned from a call to **GetPropertySetIds**.

3. If the mapping between the site subscription identifier and the specified property set type
   identifier does not exist, the protocol server MUST create a new mapping of the property set type
   identifier and the site subscription identifier elements to the specified property set identifier.

4. If the mapping between the site subscription identifier and the specified property set type
   identifier does exist, the protocol server MUST update the existing mapping to the specified
   property set identifier specified in the input message.

5. The protocol server MUST return an **SPSubscriptionSettingsActionFault** SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value "SPDatabaseException" if the
   mapping was not created or updated.

3.1.4.6.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_SetMapping_InputMessage	The request WSDL message for the **SetMapping** WSDL operation.
ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage	The response WSDL message for the **SetMapping** WSDL operation.

3.1.4.6.1.1 ISubscriptionSettingsServiceApplication_SetMapping_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMapping
```

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

3.1.4.6.1.2 ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage

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

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

3.1.4.6.2 Elements

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

Element	Description
SetMapping	The input data for the **SetMapping** WSDL operation.
SetMappingResponse	The result data for the **SetMapping** WSDL operation.

3.1.4.6.2.1 SetMapping

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

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

subscriptionId: This element contains the site subscription identifier.

typeId: This element contains the type identifier of the property set.

propertySetId: This element contains the property set identifier.

3.1.4.6.2.2 SetMappingResponse

The **SetMappingResponse** element specifies the result data for the **SetMapping** WSDL operation.

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

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

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 SetPropertySet

The **SetPropertySet** operation creates a new property set or updates an existing property set.

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

```
<wsdl:operation name="SetPropertySet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySetRespons
e" message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySetSPSubsc
riptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_SPSubscriptionSettingsAc
tionFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage request WSDL
message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage response WSDL
message, as follows:

1. If the property set in the input message is **NULL**, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault that contains a
   SPSubscriptionSettingsActionFaultType element set to the value "ArgumentNullException" as
   specified in section 2.2.5.4.

2. If the property set identifier in the input message is empty, the protocol server MUST create a new property set and assign a new GUID to the property set.

3. If a property set with the property set identifier specified in the input message does not exist, and the version stamp specified in the input message is not null, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** element set to the value "SPDeletedConcurrencyException" as specified in section 2.2.5.4.

4. If a property set with the identifier specified in the input message exists, and the version stamp in the input message does not match the version stamp of the property set, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** element set to the value "SPUpdatedConcurrencyException" as specified in section 2.2.5.4.

5. If a property set with the property set identifier specified in the input message exists, and the version stamp in the input message matches the version stamp of the property set, the protocol server MUST update the properties of the property set to match the ones in the input message. In addition, the protocol server MUST also increment the version stamp of the stored property set by one.

6. If the protocol server did not create or update the property set, it MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** element set to the value "SPDatabaseException" as specified in section 2.2.5.4.

7. If the protocol server successfully created or updated the property set, it MUST return an **SPSubscriptionSettingsPropertySetInfo** element that contains the property set identifier and version stamp elements of the property set as specified in section 2.2.4.3.

3.1.4.7.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage	The request WSDL message for the **SetPropertySet** WSDL operation.
ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage	The response WSDL message for the **SetPropertySet** WSDL operation.

3.1.4.7.1.1   ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySet
```

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

3.1.4.7.1.2 ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage

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

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

3.1.4.7.2 Elements

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

Element	Description
SetPropertySet	The input data for the **SetPropertySet** WSDL operation.
SetPropertySetResponse	The result data for the **SetPropertySet** WSDL operation.

3.1.4.7.2.1 SetPropertySet

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

```
<xs:element name="SetPropertySet" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="propertySet" nillable="true"
type="tns:SPSubscriptionSettingsPropertySet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

propertySet: This element contains the property set to be created or updated. It MUST conform to the XML schema of the **SPSubscriptionSettingsPropertySet** element as specified in section 2.2.4.2.

3.1.4.7.2.2 SetPropertySetResponse

The **SetPropertySetResponse** element specifies the result data for the **SetPropertySet** WSDL operation.

```
<xs:element name="SetPropertySetResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="SetPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetPropertySetResult: This element contains information about the property set that was created or updated. It MUST conform to the XML schema of the **SPSubscriptionSettingsPropertySetInfo** element as specified in section 2.2.4.3.

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 SetSubscriptionPropertySet

The **SetSubscriptionPropertySet** operation creates a new property set and a new mapping between it and the site subscription identifier specified in the input message.

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

```
<wsdl:operation name="SetSubscriptionPropertySet"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySet"
message="tns2:ISubscriptionSettingsServiceApplication SetSubscriptionPropertySet InputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySetResponse"
message="tns2:ISubscriptionSettingsServiceApplication SetSubscriptionPropertySet OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySetSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_SPSubscripti
onSettingsActionFaultFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
IsubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_InputMessage request
WSDL message and the protocol server MUST respond with an
IsubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_OutputMessage
response WSDL message as follows:

1. If the property set in the input message is **NULL**, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value "ArgumentNullException" as
   specified in section 2.2.5.4.

2. If the site subscription identifier in the input message is empty, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value
   "ArgumentOutOfRangeException".

3. The protocol server MUST generate a new GUID for the property set and store the property set in the list of property sets.

4. If the mapping does not exist between the property set type identifier and the site subscription identifier, the protocol server MUST create a new mapping, and then associate it with the input property set.

5. The protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** element set to the value "SPDatabaseException" for each of the following cases. The state of the protocol server MUST NOT change for any of these cases.

   1. The property set was not created.

   2. A mapping between the property set type identifier and the site subscription identifier already exists.

   3. The mapping was not created.

6. If the protocol server creates the specified property set, and also creates the mapping between it and the site subscription identifier, then the protocol server MUST return a **SPSubscriptionSettingsPropertySetInfo** element that contains the property set identifier and version stamp elements as specified in section 2.2.4.3.

3.1.4.8.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_InputMessage	The request WSDL message for the **SetSubscriptionPropertySet** WSDL operation.
ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_OutputMessage	The response WSDL message for the **SetSubscriptionPropertySet** WSDL operation.

3.1.4.8.1.1 ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionPropertySet
```

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

3.1.4.8.1.2 ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_OutputMessage

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

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

3.1.4.8.2 Elements

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

Element	Description
SetSubscriptionPropertySet	The input data for the **SetSubscriptionPropertySet** WSDL operation.
SetSubscriptionPropertySetResponse	The result data for the **SetSubscriptionPropertySet** WSDL operation.

3.1.4.8.2.1 SetSubscriptionPropertySet

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

```
<xs:element name="SetSubscriptionPropertySet" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="propertySet" nillable="true"
type="tns:SPSubscriptionSettingsPropertySet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

subscriptionId: This element contains the site subscription identifier.

propertySet: This element contains the property set to create. It MUST conform to the XML schema of **SPSubscriptionSettingsPropertySet** element as specified in section 2.2.4.2.

3.1.4.8.2.2 SetSubscriptionPropertySetResponse

The **SetSubscriptionPropertySetResponse** element specifies the result data for the **SetSubscriptionPropertySet** WSDL operation.

```
<xs:element name="SetSubscriptionPropertySetResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="SetSubscriptionPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetSubscriptionPropertySetResult: This element contains information about the property set that was created. It MUST conform to the XML schema of the **SPSubscriptionSettingsPropertySetInfo** element as specified in section 2.2.4.3.

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 GetSubscriptionMetadata

The **GetSubscriptionMetadata** operation retrieves metadata associated with the subscription specified in the input message.

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

```
<wsdl:operation name="GetSubscriptionMetadata" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
ta"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
taResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
taSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_SPSubscriptionS
ettingsActionFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage request
WSDL message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage response
WSDL message as follows:

1. If the site subscription identifier in the input message is empty, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value
   "ArgumentOutOfRangeException".

2. If the site subscription identifier in the input message is invalid, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value "SPDatabaseException".

3. The protocol server MUST return a **SPSubscriptionMetadata** element that contains the metadata associated with the given site subscription identifier.

3.1.4.9.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage	The request WSDL message for the **GetSubscriptionMetadata** WSDL operation.
ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage	The response WSDL message for the **GetSubscriptionMetadata** WSDL operation.

3.1.4.9.1.1 ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetadata
```

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

3.1.4.9.1.2 ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage

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

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

3.1.4.9.2 Elements

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

Element	Description
GetSubscriptionMetadata	The input data for the **GetSubscriptionMetadata** WSDL operation.
GetSubscriptionMetadataResponse	The result data for the **GetSubscriptionMetadata** WSDL operation.

3.1.4.9.2.1 GetSubscriptionMetadata

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

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

subscriptionId: This element contains the site subscription identifier.

3.1.4.9.2.2 GetSubscriptionMetadataResponse

The **GetSubscriptionMetadataResponse** element specifies the result data for the
GetSubscriptionMetadata WSDL operation.

```
<xs:element name="GetSubscriptionMetadataResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetSubscriptionMetadataResult" nillable="true"
type="tns:SPSubscriptionMetadata"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetSubscriptionMetadataResult: This element contains the metadata associated with the
subscription.

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 DeleteSubscriptionMetadata

The **DeleteSubscriptionMetadata** operation removes metadata associated with the subscription
specified in the input message.

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

```
<wsdl:operation name="DeleteSubscriptionMetadata"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adata"
message="tns2:ISubscriptionSettingsServiceApplication DeleteSubscriptionMetadata InputMessage
" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adataResponse"
message="tns2:ISubscriptionSettingsServiceApplication DeleteSubscriptionMetadata OutputMessag
e" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adataSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_SPSubscripti
onSettingsActionFaultFault FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_InputMessage
request WSDL message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_OutputMessage
response WSDL message as follows:

1. If the site subscription identifier in the input message is invalid, the protocol server MUST return a
   SPSubscriptionSettingsActionFault SOAP fault with the
   SPSubscriptionSettingsActionFaultType element set to the value "SPDatabaseException".

2. The protocol server MUST return a null result.

3.1.4.10.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_InputMessage	The request WSDL message for the **DeleteSubscriptionMetadata** WSDL operation.
ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_OutputMessage	The response WSDL message for the **DeleteSubscriptionMetadata** WSDL operation.

3.1.4.10.1.1 ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMetadata
```

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

3.1.4.10.1.2 ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_OutputMessage

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

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

3.1.4.10.2 Elements

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

Element	Description
DeleteSubscriptionMetadata	The input data for the **DeleteSubscriptionMetadata** WSDL operation.
DeleteSubscriptionMetadataResponse	The result data for the **DeleteSubscriptionMetadata** WSDL operation.

3.1.4.10.2.1 DeleteSubscriptionMetadata

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

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

subscriptionId: This element contains the site subscription identifier.

3.1.4.10.2.2 DeleteSubscriptionMetadataResponse

The **DeleteSubscriptionMetadataResponse** element specifies the result data for the **DeleteSubscriptionMetadata** WSDL operation.

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

The **PutSubscriptionMetadata** operation updates metadata associated with the subscription specified in the input message.

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

```
<wsdl:operation name="PutSubscriptionMetadata" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
ta"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
taResponse"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
taSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_SPSubscriptionS
ettingsActionFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an
ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMessage request WSDL message and the protocol server MUST respond with an
ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage response WSDL message as follows:

1. If the metadata in the input message is invalid, the protocol server MUST return a **SPSubscriptionSettingsActionFault** SOAP fault with the **SPSubscriptionSettingsActionFaultType** element set to the value "SPDatabaseException".

2. The protocol server MUST update the metadata associated with the subscription and return an empty result.

3.1.4.11.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMe	The request WSDL message for the

Message	Description
ssage	**PutSubscriptionMetadata** WSDL operation.
ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage	The response WSDL message for the **PutSubscriptionMetadata** WSDL operation.

3.1.4.11.1.1 ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetadata
```

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

3.1.4.11.1.2 ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage

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

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

3.1.4.11.2 Elements

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

Element	Description
PutSubscriptionMetadata	The input data for the **PutSubscriptionMetadata** WSDL operation.
PutSubscriptionMetadataResponse	The result data for the **PutSubscriptionMetadata** WSDL operation.

3.1.4.11.2.1 PutSubscriptionMetadata

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

```
<xs:element name="PutSubscriptionMetadata" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="metadata" nillable="true" type="tns:SPSubscriptionMetadata"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

metadata: This element contains the metadata associated with the subscription.

3.1.4.11.2.2 PutSubscriptionMetadataResponse

The **PutSubscriptionMetadataResponse** element specifies the result data for the **PutSubscriptionMetadata** WSDL operation.

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

The **GetSubscriptionNextAppSiteDomainId** operation is deprecated from the protocol and MUST NOT be called.

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

```
<wsdl:operation name="GetSubscriptionNextAppSiteDomainId"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainId"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_Inpu
tMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainIdResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_Outp
utMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainIdSPSubscriptionSettingsActionFaultFault"
name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_SPSu
bscriptionSettingsActionFaultFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.12.1 Messages

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

Message	Description
ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_InputMessage	The request WSDL message for the **GetSubscriptionNextAppSiteDomainId** WSDL operation.
ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_OutputMessage	The response WSDL message for the **GetSubscriptionNextAppSiteDomainId** WSDL operation.

3.1.4.12.1.1 ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAppSiteDomainId
```

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

3.1.4.12.1.2 ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_OutputMessage

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

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

3.1.4.12.2 Elements

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

Element	Description
GetSubscriptionNextAppSiteDomainId	The input data for the **GetSubscriptionNextAppSiteDomainId** WSDL operation.
GetSubscriptionNextAppSiteDomainIdResponse	The result data for the **GetSubscriptionNextAppSiteDomainId** WSDL operation.

3.1.4.12.2.1 GetSubscriptionNextAppSiteDomainId

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

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

subscriptionId: Deprecated.

numberOfAppSiteDomainIds: Deprecated.

3.1.4.12.2.2 GetSubscriptionNextAppSiteDomainIdResponse

The **GetSubscriptionNextAppSiteDomainIdResponse** element specifies the result data for the **GetSubscriptionNextAppSiteDomainId** WSDL operation.

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

GetSubscriptionNextAppSiteDomainIdResult: Deprecated.

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.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples show how to work with property sets for this protocol

4.1 Manage a Site Subscription Property Set

These examples describe the sequence of requests and responses between the protocol client and protocol server during operations that manage the property set of a **site subscription**.

4.1.1 Create a New Property Set

The following examples create a property set for each property set type: Properties, Admin Properties and Feature Set.

To create a new property set that is described by the type identifier that contains the value "d5c46399-6d04-4489-82cd-aa36b8accefb" for property sets of type "Properties", the protocol client constructs the following WSDL message.

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySet xmlns="http://tempuri.org/">
      <propertySet xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>00000000-0000-0000-0000-000000000000</m_PropertySetId>
        <m_TypeId>d5c46399-6d04-4489-82cd-aa36b8accefb</m_TypeId>
        <m_Version>0</m_Version>
        <m_Xml>
          <entries>
            <entry name="SamplePropertySet1" type="int">123</entry>
          </entries>
        </m_Xml>
      </propertySet>
    </SetPropertySet>
  </s:Body>
</s:Envelope>
```

On successful creation of the new property set for properties type "Properties", the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySetResponse xmlns="http://tempuri.org/">
      <SetPropertySetResult
xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>a0c31f4a-5f92-4e6a-b954-42c5e22415d4</m_PropertySetId>
        <m_Version>1</m_Version>
      </SetPropertySetResult>
    </SetPropertySetResponse>
  </s:Body>
</s:Envelope>
```

To create a new property set that contains administrative properties, the type identifier that contains the value "83e6c4cb-8e96-4882-af00-421f586517f2" is used. The protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySet xmlns="http://tempuri.org/">
      <propertySet xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>00000000-0000-0000-0000-000000000000</m_PropertySetId>
```

```
        <m_TypeId>83e6c4cb-8e96-4882-af00-421f586517f2</m_TypeId>
        <m_Version>0</m_Version>
        <m_Xml>
          <entries>
            <entry name="SampleAdminPropertySet1" type="int">456</entry>
          </entries>
        </m_Xml>
      </propertySet>
    </SetPropertySet>
  </s:Body>
</s:Envelope>
```

On successful creation of the new property set for administrative properties, the protocol server
returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySetResponse xmlns="http://tempuri.org/">
      <SetPropertySetResult
xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>ba353017-18c4-4122-a613-f1bb3d55d34c</m_PropertySetId>
        <m_Version>1</m_Version>
      </SetPropertySetResult>
    </SetPropertySetResponse>
  </s:Body>
</s:Envelope>
```

To create a new property set that contains feature set properties, and the type identifier "47ef919c-
588d-4cfc-a552-762f746a5127", the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySet xmlns="http://tempuri.org/">
      <propertySet xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>00000000-0000-0000-0000-000000000000</m_PropertySetId>
        <m_TypeId>47ef919c-588d-4cfc-a552-762f746a5127</m_TypeId>
        <m_Version>0</m_Version>
        <m_Xml>
          <entries>
            <entry name="FeatureIds" type="string" />
          </entries>
        </m_Xml>
      </propertySet>
    </SetPropertySet>
  </s:Body>
</s:Envelope>
```

On successful creation of the new property set of feature set properties, the protocol server returns
the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetPropertySetResponse xmlns="http://tempuri.org/">
      <SetPropertySetResult
xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
        <m_PropertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</m_PropertySetId>
        <m_Version>1</m_Version>
      </SetPropertySetResult>
    </SetPropertySetResponse>
  </s:Body>
```

```
            </s:Envelope>
```

4.1.2 Update a Property Set

 To update the property set retrieved with the GUID set to the value "ed7319ca-547b-4369-ad8f-dc5f5b3c1669" and is associated with feature set type identifier "47ef919c-588d-4cfc-a552-762f746a5127", the protocol client constructs the following WSDL message:

```
    <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
      <s:Body>
        <SetPropertySet xmlns="http://tempuri.org/">
          <propertySet xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
            <m_PropertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</m_PropertySetId>
            <m_TypeId>47ef919c-588d-4cfc-a552-762f746a5127</m_TypeId>
            <m_Version>1</m_Version>
            <m_Xml>
              <entries>
                <entry name="FeatureIds" type="string">00bfea71-1c5e-4a24-b310-
ba51c3eb7a57;</entry>
              </entries>
            </m_Xml>
          </propertySet>
        </SetPropertySet>
      </s:Body>
    </s:Envelope>
```

On successful update of the property set that is associated with the GUID "ed7319ca-547b-4369-ad8f-dc5f5b3c1669" and contains feature set properties, the protocol server returns the following WSDL message:

```
    <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
      <s:Body>
        <SetPropertySetResponse xmlns="http://tempuri.org/">
          <SetPropertySetResult
    xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint">
            <m_PropertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</m_PropertySetId>
            <m_Version>2</m_Version>
          </SetPropertySetResult>
        </SetPropertySetResponse>
      </s:Body>
    </s:Envelope>
```

4.1.3 Fetch a Property Set

 To retrieve the property set that contains the GUID set to the value "ed7319ca-547b-4369-ad8f-dc5f5b3c1669" and whose type identifier contains the value "47ef919c-588d-4cfc-a552-762f746a5127" for feature set properties, the protocol client constructs the following WSDL message:

```
    <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" >
      <s:Body>
        <GetPropertySet xmlns="http://tempuri.org/">
          <propertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</propertySetId>
          <typeId>47ef919c-588d-4cfc-a552-762f746a5127</typeId>
        </GetPropertySet>
      </s:Body>
    </s:Envelope>
```

If the property set that contains the specified GUID and the type identifier exists, the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <GetPropertySetResponse xmlns="http://tempuri.org/">
      <GetPropertySetResult
xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint" >
        <m_Exists>true</m_Exists>
        <m_PropertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</m_PropertySetId>
        <m_Version>2</m_Version>
        <m_Xml>
          <entries>
            <entry name="FeatureIds" type="string">00bfea71-1c5e-4a24-b310-
ba51c3eb7a57;</entry>
          </entries>
        </m_Xml>
      </GetPropertySetResult>
    </GetPropertySetResponse>
  </s:Body>
</s:Envelope>
```

4.1.4 Fetch Property Set Identifiers with Property Set Type

To retrieve the array of GUIDs of the property sets that are associated with type identifier "d5c46399-6d04-4489-82cd-aa36b8accefb" for property sets of type "properties", the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <GetPropertySetIds xmlns="http://tempuri.org/">
      <typeId>d5c46399-6d04-4489-82cd-aa36b8accefb</typeId>
    </GetPropertySetIds>
  </s:Body>
</s:Envelope>
```

If one or more property set elements that contain the specified type identifier exist, the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <GetPropertySetIdsResponse xmlns="http://tempuri.org/">
      <GetPropertySetIdsResult
xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays" >
        <guid>a0c31f4a-5f92-4e6a-b954-42c5e22415d4</guid>
      </GetPropertySetIdsResult>
    </GetPropertySetIdsResponse>
  </s:Body>
</s:Envelope>
```

4.1.5 Create a Mapping Between a Property Set and a Site Subscription

To create the mapping between the property set and the site subscription, the protocol client constructs the WSDL message as shown in the following example. The property set contains a GUID set to the value "ed7319ca-547b-4369-ad8f-dc5f5b3c1669" and type identifier is set to the value "47ef919c-588d-4cfc-a552-762f746a5127" for feature set properties. The site subscription is associated with the GUID that is set to the value "4e5836a1-478d-4e8c-a965-e0a99ccf1e9c".

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
```

```
  <s:Body>
    <SetMapping xmlns="http://tempuri.org/">
      <subscriptionId>4e5836a1-478d-4e8c-a965-e0a99ccf1e9c</subscriptionId>
      <typeId>47ef919c-588d-4cfc-a552-762f746a5127</typeId>
      <propertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</propertySetId>
    </SetMapping>
  </s:Body>
</s:Envelope>
```

On successful creation of the mapping between the property set and the site subscription, the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetMappingResponse xmlns="http://tempuri.org/"></SetMappingResponse>
  </s:Body>
</s:Envelope>
```

4.1.6   Create a New Property Set and Mapping to a Site Subscription

To create a new property set that contains a type identifier set to the value "d5c46399-6d04-4489-82cd-aa36b8accefb" for properties of type "Properties", and also create a new mapping between it and the site subscription that contains the GUID that is set to the value "0e6b9180-6e6f-44d3-8573-4917ce77917e", the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetSubscriptionPropertySet xmlns="http://tempuri.org/">
      <subscriptionId>0e6b9180-6e6f-44d3-8573-4917ce77917e</subscriptionId>
      <propertySet xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint" >
        <m_PropertySetId>00000000-0000-0000-0000-000000000000</m_PropertySetId>
        <m_TypeId>d5c46399-6d04-4489-82cd-aa36b8accefb</m_TypeId>
        <m Version>0</m Version>
        <m_Xml>
          <entries>
            <entry name="SamplePropertySet2" type="int">789</entry>
          </entries>


        </m Xml>
      </propertySet>
    </SetSubscriptionPropertySet>
  </s:Body>
</s:Envelope>
```

On successful creation of the property set of type "Properties" and a new mapping to the site subscription, the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <SetSubscriptionPropertySetResponse xmlns="http://tempuri.org/">
      <SetSubscriptionPropertySetResult
xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint" >
        <m_PropertySetId>2ec06784-b04d-4ab1-b7c7-ee667e072dad</m_PropertySetId>
        <m Version>1</m Version>
      </SetSubscriptionPropertySetResult>
    </SetSubscriptionPropertySetResponse>
  </s:Body>
</s:Envelope>
```

4.1.7 Fetch a Site Subscription Property Set

To retrieve the property set that contains the type identifier that is set to the value "47ef919c-588d-4cfc-a552-762f746a5127" for feature set properties, and has a mapping to a site subscription that contains a GUID set to the value "4e5836a1-478d-4e8c-a965-e0a99ccf1e9c", the protocol client constructs the following WSDL message:

```
   <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Body>
      <GetSubscriptionPropertySet xmlns="http://tempuri.org/">
        <subscriptionId>4e5836a1-478d-4e8c-a965-e0a99ccf1e9c</subscriptionId>
        <typeId>47ef919c-588d-4cfc-a552-762f746a5127</typeId>
      </GetSubscriptionPropertySet>
    </s:Body>
   </s:Envelope>
```

If the property set that contains the specified type identifier exists and its mapping to the site subscription that contains the specified GUID exists, the protocol server returns the following WSDL message:

```
   <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Body>
      <GetSubscriptionPropertySetResponse xmlns="http://tempuri.org/">
        <GetSubscriptionPropertySetResult
   xmlns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint" >
          <m_Exists>true</m_Exists>
          <m_PropertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</m_PropertySetId>
          <m_Version>2</m_Version>
          <m_Xml>
            <entries>
              <entry name="FeatureIds" type="string">00bfea71-1c5e-4a24-b310-
   ba51c3eb7a57;</entry>
            </entries>
          </m_Xml>
        </GetSubscriptionPropertySetResult>
      </GetSubscriptionPropertySetResponse>
    </s:Body>
   </s:Envelope>
```

4.1.8 Delete a Mapping Between a Property Set and a Site Subscription

To delete the mapping between the property set that contains a type identifier that is set to the value of "47ef919c-588d-4cfc-a552-762f746a5127" for feature set properties and the site subscription that contains a GUID that is set to the value of "4e5836a1-478d-4e8c-a965-e0a99ccf1e9c", the protocol client constructs the following WSDL message:

```
   <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Body>
      <DeleteMapping xmlns="http://tempuri.org/">
        <subscriptionId>4e5836a1-478d-4e8c-a965-e0a99ccf1e9c</subscriptionId>
        <typeId>47ef919c-588d-4cfc-a552-762f746a5127</typeId>
      </DeleteMapping>
    </s:Body>
   </s:Envelope>
```

If at least one property set that contains the specified type identifier exists, and the type identifier mapping to the site subscription that contains the specified GUID also exists, on successful delete the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <DeleteMappingResponse xmlns="http://tempuri.org/"></DeleteMappingResponse>
  </s:Body>
</s:Envelope>
```

4.1.9   Delete a Property Set

To delete the property set that contains the GUID that is set to the value "ed7319ca-547b-4369-ad8f-dc5f5b3c1669" and also contains the type identifier that is set to the value "47ef919c-588d-4cfc-a552-762f746a5127" for feature set properties, and then delete all associated mappings, the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <DeletePropertySet xmlns="http://tempuri.org/">
      <propertySetId>ed7319ca-547b-4369-ad8f-dc5f5b3c1669</propertySetId>
      <typeId>47ef919c-588d-4cfc-a552-762f746a5127</typeId>
      <version>2</version>
    </DeletePropertySet>


  </s:Body>
</s:Envelope>
```

If the property set exists that contains the specified GUID, type identifier, and version stamp, on successful delete the protocol server returns the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Body>
    <DeletePropertySetResponse xmlns="http://tempuri.org/"></DeletePropertySetResponse>
  </s:Body>
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

There are no additional security considerations. Security assumptions for this protocol are documented in section 1.5.

5.2 Index of Security Parameters

None.

6   Appendix A: Full WSDL

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

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns2="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://tempuri.org/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns3="http://tempuri.org/Imports"
targetNamespace="http://tempuri.org/Imports">
      <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import namespace="http://tempuri.org/"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="ISubscriptionSettingsServiceApplication">
    <wsdl:operation name="GetPropertySet">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetRespons
e" message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetSPSubsc
riptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySet_SPSubscriptionSettingsAc
tionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetPropertySet">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySetRespons
e" message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySetSPSubsc
riptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetPropertySet_SPSubscriptionSettingsAc
tionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeletePropertySet">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySet"
message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySetResp
onse"
message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySetSPSu
bscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeletePropertySet_SPSubscriptionSetting
sActionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetPropertySetIds">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIds"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIdsResp
onse"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage"/>
```

```
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIdsSPSu
bscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetPropertySetIds_SPSubscriptionSetting
sActionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetMapping">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMapping"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMappingResponse"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMappingSPSubscript
ionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetMapping_SPSubscriptionSettingsAction
FaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteMapping">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMapping"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMappingResponse
" message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMappingSPSubscr
iptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteMapping_SPSubscriptionSettingsAct
ionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetSubscriptionPropertySet">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySet"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage
"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySetResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessag
e"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionProper
tySetSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_SPSubscripti
onSettingsActionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetSubscriptionPropertySet">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySet"
message="tns2:ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_InputMessage
"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySetResponse"
message="tns2:ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_OutputMessag
e"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionProper
tySetSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_SPSubscripti
onSettingsActionFaultFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetSubscriptionMetadata">
      <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
```

```
ta"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage"/>
        <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
taResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage"/
>
        <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetada
taSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_SPSubscriptionS
ettingsActionFaultFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="PutSubscriptionMetadata">
        <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
ta"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMessage"/>
        <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
taResponse"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage"/
>
        <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetada
taSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_SPSubscriptionS
ettingsActionFaultFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="GetSubscriptionNextAppSiteDomainId">
        <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainId"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_Inpu
tMessage"/>
        <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainIdResponse"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_Outp
utMessage"/>
        <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextAp
pSiteDomainIdSPSubscriptionSettingsActionFaultFault"
name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_SPSu
bscriptionSettingsActionFaultFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="DeleteSubscriptionMetadata">
        <wsdl:input
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adata"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_InputMessage
"/>
        <wsdl:output
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adataResponse"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_OutputMessag
e"/>
        <wsdl:fault
wsaw:Action="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMet
adataSPSubscriptionSettingsActionFaultFault" name="SPSubscriptionSettingsActionFaultFault"
message="tns2:ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_SPSubscripti
onSettingsActionFaultFault_FaultMessage"/>
      </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="DefaultBinding_ISubscriptionSettingsServiceApplication"
type="tns2:ISubscriptionSettingsServiceApplication">
      <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
      <wsdl:operation name="GetPropertySet">
```

```
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySet"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetPropertySet">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetPropertySet"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="DeletePropertySet">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeletePropertySet"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetPropertySetIds">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetPropertySetIds"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetMapping">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetMapping"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
```

```
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="DeleteMapping">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteMapping"
style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetSubscriptionPropertySet">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionPropert
ySet" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SetSubscriptionPropertySet">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/SetSubscriptionPropert
ySet" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetSubscriptionMetadata">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionMetadat
a" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
      <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
        <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="PutSubscriptionMetadata">
      <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/PutSubscriptionMetadat
a" style="document"/>
```

```
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
          <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
            <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetSubscriptionNextAppSiteDomainId">
          <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/GetSubscriptionNextApp
SiteDomainId" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
          <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
            <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="DeleteSubscriptionMetadata">
          <soap:operation
soapAction="http://tempuri.org/ISubscriptionSettingsServiceApplication/DeleteSubscriptionMeta
data" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
          <wsdl:fault name="SPSubscriptionSettingsActionFaultFault">
            <soap:fault use="literal" name="SPSubscriptionSettingsActionFaultFault"
namespace=""/>
          </wsdl:fault>
        </wsdl:operation>
    </wsdl:binding>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_DeleteMapping_InputMessage">
      <wsdl:part name="parameters" element="tns2:DeleteMapping"/>
    </wsdl:message>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_DeleteMapping_OutputMessage">
      <wsdl:part name="parameters" element="tns2:DeleteMappingResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeleteMapping_SPSubscriptionSettingsActionFault
Fault_FaultMessage">
      <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeletePropertySet_InputMessage">
      <wsdl:part name="parameters" element="tns2:DeletePropertySet"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeletePropertySet_OutputMessage">
      <wsdl:part name="parameters" element="tns2:DeletePropertySetResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeletePropertySet_SPSubscriptionSettingsActionF
aultFault_FaultMessage">
      <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
```

```
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_InputMessage">
    <wsdl:part name="parameters" element="tns2:DeleteSubscriptionMetadata"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_OutputMessage">
    <wsdl:part name="parameters" element="tns2:DeleteSubscriptionMetadataResponse"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_DeleteSubscriptionMetadata_SPSubscriptionSettin
gsActionFaultFault_FaultMessage">
    <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
  </wsdl:message>
  <wsdl:message name="ISubscriptionSettingsServiceApplication_GetPropertySet_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetPropertySet"/>
  </wsdl:message>
  <wsdl:message name="ISubscriptionSettingsServiceApplication_GetPropertySet_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetPropertySetResponse"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetPropertySet_SPSubscriptionSettingsActionFaul
tFault_FaultMessage">
    <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetPropertySetIds_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetPropertySetIds"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetPropertySetIds_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetPropertySetIdsResponse"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetPropertySetIds_SPSubscriptionSettingsActionF
aultFault_FaultMessage">
    <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetSubscriptionMetadata"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetSubscriptionMetadataResponse"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionMetadata_SPSubscriptionSettingsA
ctionFaultFault_FaultMessage">
    <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_InputMessage
">
    <wsdl:part name="parameters" element="tns2:GetSubscriptionNextAppSiteDomainId"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_OutputMessag
e">
    <wsdl:part name="parameters" element="tns2:GetSubscriptionNextAppSiteDomainIdResponse"/>
  </wsdl:message>
  <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionNextAppSiteDomainId_SPSubscripti
onSettingsActionFaultFault_FaultMessage">
    <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
```

```
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_InputMessage">
        <wsdl:part name="parameters" element="tns2:GetSubscriptionPropertySet"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_OutputMessage">
        <wsdl:part name="parameters" element="tns2:GetSubscriptionPropertySetResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_GetSubscriptionPropertySet_SPSubscriptionSettin
gsActionFaultFault_FaultMessage">
        <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_InputMessage">
        <wsdl:part name="parameters" element="tns2:PutSubscriptionMetadata"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_OutputMessage">
        <wsdl:part name="parameters" element="tns2:PutSubscriptionMetadataResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_PutSubscriptionMetadata_SPSubscriptionSettingsA
ctionFaultFault_FaultMessage">
        <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_SetMapping_InputMessage">
        <wsdl:part name="parameters" element="tns2:SetMapping"/>
    </wsdl:message>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_SetMapping_OutputMessage">
        <wsdl:part name="parameters" element="tns2:SetMappingResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_SetMapping_SPSubscriptionSettingsActionFaultFau
lt_FaultMessage">
        <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_SetPropertySet_InputMessage">
        <wsdl:part name="parameters" element="tns2:SetPropertySet"/>
    </wsdl:message>
    <wsdl:message name="ISubscriptionSettingsServiceApplication_SetPropertySet_OutputMessage">
        <wsdl:part name="parameters" element="tns2:SetPropertySetResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_SetPropertySet_SPSubscriptionSettingsActionFaul
tFault_FaultMessage">
        <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_InputMessage">
        <wsdl:part name="parameters" element="tns2:SetSubscriptionPropertySet"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_OutputMessage">
        <wsdl:part name="parameters" element="tns2:SetSubscriptionPropertySetResponse"/>
    </wsdl:message>
    <wsdl:message
name="ISubscriptionSettingsServiceApplication_SetSubscriptionPropertySet_SPSubscriptionSettin
gsActionFaultFault_FaultMessage">
        <wsdl:part xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
name="detail" element="tns:SPSubscriptionSettingsActionFault"/>
    </wsdl:message>
</wsdl:definitions>
```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.SharePoint	tns	7.1
http://schemas.microsoft.com/2003/10/Serialization/Arrays	tns1	7.2
http://schemas.microsoft.com/2003/10/Serialization/	ser	7.3
http://tempuri.org/	tns2	7.4

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

7.1 http://tempuri.org/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetPropertySet">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="propertySetId" type="ser:guid"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetPropertySetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetPropertySet">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="propertySet" nillable="true"
type="tns:SPSubscriptionSettingsPropertySet"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetPropertySetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="SetPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetInfo"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeletePropertySet">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="propertySetId" type="ser:guid"/>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
        <xs:element minOccurs="0" name="version" type="xs:long"/>
```

```
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DeletePropertySetResponse">
          <xs:complexType>
            <xs:sequence/>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetPropertySetIds">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetPropertySetIdsResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetPropertySetIdsResult" nillable="true" type="tns1:ArrayOfguid"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="SetMapping">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="propertySetId" type="ser:guid"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="SetMappingResponse">
          <xs:complexType>
            <xs:sequence/>
          </xs:complexType>
        </xs:element>
        <xs:element name="DeleteMapping">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DeleteMappingResponse">
          <xs:complexType>
            <xs:sequence/>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetSubscriptionPropertySet">
          <xs:complexType>
            <xs:sequence>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
              <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="typeId" type="ser:guid"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetSubscriptionPropertySetResponse">
          <xs:complexType>
            <xs:sequence>
```

```xml
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetSubscriptionPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetSubscriptionPropertySet">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="propertySet" nillable="true"
type="tns:SPSubscriptionSettingsPropertySet"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetSubscriptionPropertySetResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="SetSubscriptionPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetInfo"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSubscriptionMetadata">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSubscriptionMetadataResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="GetSubscriptionMetadataResult" nillable="true"
type="tns:SPSubscriptionMetadata"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="PutSubscriptionMetadata">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
minOccurs="0" name="metadata" nillable="true" type="tns:SPSubscriptionMetadata"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="PutSubscriptionMetadataResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSubscriptionNextAppSiteDomainId">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
        <xs:element minOccurs="0" name="numberOfAppSiteDomainIds" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSubscriptionNextAppSiteDomainIdResponse">
    <xs:complexType>
      <xs:sequence>
```

```xml
        <xs:element minOccurs="0" name="GetSubscriptionNextAppSiteDomainIdResult"
nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteSubscriptionMetadata">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="subscriptionId" type="ser:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteSubscriptionMetadataResponse">
    <xs:complexType>
      <xs:sequence/>
    </xs:complexType>
  </xs:element>
  <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
</xs:schema>
```

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

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="ser:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="ser:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="ser:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-
F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
```

```xml
      <xs:attribute name="FactoryType" type="xs:QName"/>
      <xs:attribute name="Id" type="xs:ID"/>
      <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>
```

7.3 http://schemas.datacontract.org/2004/07/Microsoft.SharePoint Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.SharePoint"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="SPSubscriptionSettingsPropertySetResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="m_Exists" type="xs:boolean"/>
      <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
      <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
      <xs:element minOccurs="0" name="m_Xml" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SPSubscriptionSettingsPropertySetResult" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetResult"/>
  <xs:complexType name="SPSubscriptionSettingsActionFault">
    <xs:sequence>
      <xs:element minOccurs="0" name="m_faultType"
type="tns:SPSubscriptionSettingsActionFaultType"/>
      <xs:element minOccurs="0" name="m_message" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SPSubscriptionSettingsActionFault" nillable="true"
type="tns:SPSubscriptionSettingsActionFault"/>
  <xs:simpleType name="SPSubscriptionSettingsActionFaultType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="ArgumentOutOfRangeException"/>
      <xs:enumeration value="ArgumentNullException"/>
      <xs:enumeration value="SPDatabaseException"/>
      <xs:enumeration value="SPDeletedConcurrencyException"/>
      <xs:enumeration value="SPUpdatedConcurrencyException"/>
      <xs:enumeration value="ArgumentException"/>
      <xs:enumeration value="SPException"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SPSubscriptionSettingsActionFaultType" nillable="true"
type="tns:SPSubscriptionSettingsActionFaultType"/>
  <xs:complexType name="SPSubscriptionSettingsPropertySet">
    <xs:sequence>
      <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
      <xs:element minOccurs="0" name="m_TypeId" type="ser:guid"/>
      <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
      <xs:element minOccurs="0" name="m_Xml" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SPSubscriptionSettingsPropertySet" nillable="true"
type="tns:SPSubscriptionSettingsPropertySet"/>
  <xs:complexType name="SPSubscriptionSettingsPropertySetInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="m_PropertySetId" type="ser:guid"/>
      <xs:element minOccurs="0" name="m_Version" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SPSubscriptionSettingsPropertySetInfo" nillable="true"
type="tns:SPSubscriptionSettingsPropertySetInfo"/>
  <xs:complexType name="SPSubscriptionMetadata">
    <xs:sequence>
      <xs:element minOccurs="0" name="m_name" nillable="true" type="xs:string"/>
```

```
      <xs:element minOccurs="0" name="m_subscriptionId" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="SPSubscriptionMetadata" nillable="true"
type="tns:SPSubscriptionMetadata"/>
</xs:schema>
```

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

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="ArrayOfguid">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfguid" nillable="true" type="tns1:ArrayOfguid"/>
</xs:schema>
```

8   Appendix C: Product Behavior

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

- Microsoft SharePoint Foundation 2010

- Microsoft SharePoint Foundation 2013

- Microsoft SharePoint Server 2016 Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

<1> Section 2.2.5: This type is available only in SharePoint Foundation 2013.

<2> Section 2.2.5.3: This type is available only in SharePoint Foundation 2013.

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

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

- The removal of a document from the documentation set.

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

The revision class **Editorial** means that the formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

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

- New content added.

- Content updated.

- Content removed.

- New product behavior note added.

- Product behavior note updated.

- Product behavior note removed.

- New protocol syntax added.

- Protocol syntax updated.

- Protocol syntax removed.

- New content added due to protocol revision.

- Content updated due to protocol revision.

- Content removed due to protocol revision.

- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.

- Protocol syntax removed due to protocol revision.

- Obsolete document removed.

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

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

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.

- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

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

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
8 Appendix C: Product Behavior	Updated list of supported products.	Y	Content updated due to protocol revision.

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