

# [MS-PLSP]: Published Links Web Service Protocol Specification

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## Revision Summary

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# 1 Introduction

The Published Links Web Service Protocol allows a protocol client to retrieve a list of potentially useful URLs and the descriptive details about each URL.

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 RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

## 1.1 Glossary

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

**Hypertext Transfer Protocol (HTTP)**  
**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**

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

**data connection library**  
**document library**  
**list**  
**personal site**  
**portal site**  
**profile site**  
**Simple Object Access Protocol (SOAP)**  
**site**  
**Slide Library**  
**SOAP action**  
**SOAP body**  
**SOAP fault**  
**Uniform Resource Locator (URL)**  
**Web Services Description Language (WSDL)**  
**XML namespace**  
**XML namespace prefix**  
**XML schema**

The following terms are specific to this document:

**Document Center:** A document library template that is preconfigured to store a large quantity of documents.

**Project Workspace site:** A site that can be used to manage a project.

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

## 1.2 References

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

## 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-TMPLDISC] Microsoft Corporation, "[Template Discovery Web Service Protocol Specification](#)".

[RFC1738] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)", RFC 1738, December 1994, <http://www.ietf.org/rfc/rfc1738.txt>

[RFC1945] Berners-Lee, T., Fielding, R., and Frystyk, H., "Hypertext Transfer Protocol -- HTTP/1.0", RFC 1945, May 1996, <http://www.ietf.org/rfc/rfc1945.txt>

[RFC2045] Freed, N., and Borenstein, N., "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996, <http://ietf.org/rfc/rfc2045.txt>

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

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

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

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

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

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

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

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

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

## 1.2.2 Informative References

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

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

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

### 1.3 Overview

This protocol allows a protocol client to retrieve a list of **URLs** and descriptive details about each URL. A protocol client can choose to inspect the descriptive details to decide whether the URL is useful for its particular application. In all cases, "user" refers to the user account calling the service which must have permissions to access the site.

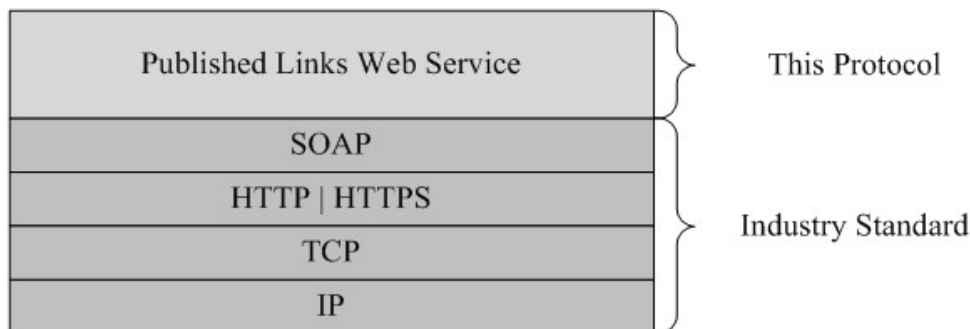
The types of URLs returned by default are:

- **Sites (2)** and **lists (1)** that an administrator has specified.
- Sites where the user is a member.
- The user's personal site.
- The user's profile site.
- The user's document libraries.
- **Document libraries** from which document templates can be downloaded.

### 1.4 Relationship to Other Protocols

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

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



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

### 1.5 Prerequisites/Preconditions

This protocol operates against a site that is identified by a URL that is known by protocol clients. The protocol server endpoint is formed by appending "\_vti\_bin/publishedlinksservice.asmx" to the URL of the site, for example, [http://www.contoso.com/Repository/\\_vti\\_bin/publishedlinksservice.asmx](http://www.contoso.com/Repository/_vti_bin/publishedlinksservice.asmx).

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

### 1.6 Applicability Statement

This protocol is applicable in scenarios where a protocol client can use a list of URLs. The protocol is intended for scenarios that include that of a protocol client displaying the list of URLs to the user



calling the service. Thus, it would be an inappropriate use of this protocol for the protocol server to return more than 100 URLs to the client.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses multiple transports with SOAP as specified in section [2.1](#).

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

## 2 Messages

### 2.1 Transport

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

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

### 2.2 Common Message Syntax

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

#### 2.2.1 Namespaces

This protocol specifies and references **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this document associates an **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
http	<a href="http://schemas.xmlsoap.org/wsd/http/">http://schemas.xmlsoap.org/wsd/http/</a>	<a href="#">[RFC1945]</a>
soap	<a href="http://schemas.xmlsoap.org/wsd/soap/">http://schemas.xmlsoap.org/wsd/soap/</a>	<a href="#">[SOAP1.1]</a>
mime	<a href="http://schemas.xmlsoap.org/wsd/mime/">http://schemas.xmlsoap.org/wsd/mime/</a>	<a href="#">[RFC2045]</a>
soap12	<a href="http://schemas.xmlsoap.org/wsd/soap12/">http://schemas.xmlsoap.org/wsd/soap12/</a>	<a href="#">[SOAP1.2/1]</a> <a href="#">[SOAP1.2/2]</a>
soapenc	<a href="http://schemas.xmlsoap.org/soap/encoding/">http://schemas.xmlsoap.org/soap/encoding/</a>	<a href="#">[SOAP1.2/1]</a> <a href="#">[SOAP1.2/2]</a>
s	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a> ↓ <a href="#">[XMLSCHEMA2]</a> ↓
wSDL	<a href="http://schemas.xmlsoap.org/wsd/">http://schemas.xmlsoap.org/wsd/</a>	<a href="#">[WSDL]</a>
tm	<a href="http://microsoft.com/wsd/mime/textMatching/">http://microsoft.com/wsd/mime/textMatching/</a>	<a href="#">[WSDL]</a>
tns	<a href="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService">http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService</a>	
(none)	<a href="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService">http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService</a>	

## **2.2.2 Messages**

This specification does not define any common WSDL message definitions.

## **2.2.3 Elements**

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

## **2.2.4 Complex Types**

This specification does not define any common XML schema complex type definitions.

## **2.2.5 Simple Types**

This specification does not define any common XML schema simple type definitions.

## **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.

Except where specified, protocol clients SHOULD interpret the HTTP Status Codes that the protocol server returns as specified in [\[RFC2616\]](#), section 10.

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

This protocol allows protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using HTTP Status Codes or SOAP faults.

### 3.1 Server Details

#### 3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization 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 table of useful URLs and descriptive details for each URL.

#### 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 WSDL operations as defined by this specification:

Operation	Description
GetLinks	Retrieves a list of URLs and descriptive details about each URL.

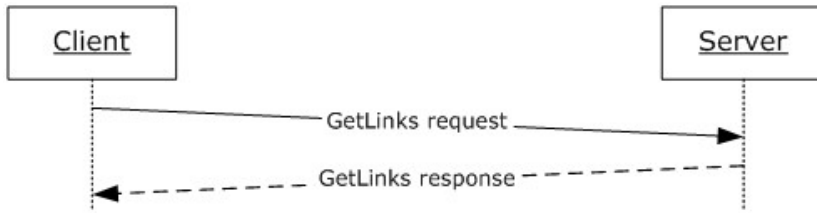
##### 3.1.4.1 GetLinks

This operation is used to retrieve a list of URLs relevant to the user calling the service and descriptive details about each URL. Relevant links are those that are either directly related to the user (like his personal site or personal document library) or that have been published by the site administrator.

```
<wsdl:operation name="GetLinks">  
  <wsdl:input message="tns:GetLinksSoapIn" />  
</wsdl:operation>
```

```
<wsdl:output message="tns:GetLinksSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetLinksSoapIn** request message and the protocol server MUST respond with a **GetLinksSoapOut** response message.



**Figure 2: High-level sequence diagram for Published Links Web Service Protocol**

### 3.1.4.1.1 Messages

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

Message	Description
<b>GetLinksSoapIn</b>	The request message for the <b>GetLinks</b> operation.
<b>GetLinksSoapOut</b>	The response message for the <b>GetLinks</b> operation.

#### 3.1.4.1.1.1 GetLinksSoapIn

The request message for the **GetLinks** operation. The **SOAP action** value of the message is defined as:

```
http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService/GetLinks
```

The **SOAP body** contains a **GetLinks** element.

#### 3.1.4.1.1.2 GetLinksSoapOut

The response message for the **GetLinks** operation. The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService/GetLinks
```

The SOAP body contains a **GetLinksResponse** element.

### 3.1.4.1.2 Elements

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

Element	Description
<b>GetLinks</b>	Used to issue the <b>GetLinks</b> request.
<b>GetLinksResponse</b>	The response to the <b>GetLinks</b> request.

### 3.1.4.1.2.1 GetLinks

The **GetLinks** element is used to issue the **GetLinks** request.

```
<s:element name="GetLinks">
  <s:complexType/>
</s:element>
```

This element MUST NOT contain child elements.

### 3.1.4.1.2.2 GetLinksResponse

The **GetLinksResponse** element is returned as the response to the **GetLinks** request.

```
<s:element name="GetLinksResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetLinksResult" type="tns:ArrayOfServerLink" minOccurs="0"
maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetLinksResult:** List of URLs and descriptive details for each URL.

### 3.1.4.1.3 Complex Types

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

Complex type	Description
<b>ArrayOfServerLink</b>	An array of <b>ServerLink</b> elements.
<b>ServerLink</b>	A URL and descriptive details about the URL.

#### 3.1.4.1.3.1 ArrayOfServerLink

The **ArrayOfServerLink** complex type represents an array of **ServerLink** elements.

```
<s:complexType name="ArrayOfServerLink">
  <s:sequence>
    <s:element name="ServerLink" type="tns:ServerLink" nillable="true" minOccurs="0"
maxOccurs="unbounded"/>
  </s:sequence>
</s:complexType>
```

**ServerLink:** See section [3.1.4.1.3.2](#).

### 3.1.4.1.3.2 ServerLink

The **ServerLink** complex type represents a URL and descriptive details about the URL.

```
<s:complexType name="ServerLink">
  <s:sequence>
    <s:element name="Title" type="s:string" minOccurs="1" maxOccurs="1"/>
    <s:element name="Url" type="s:string" minOccurs="1" maxOccurs="1"/>
    <s:element name="LinkType" type="s:long" minOccurs="1" maxOccurs="1"/>
    <s:element name="IsMember" type="s:boolean" minOccurs="1" maxOccurs="1"/>
    <s:element name="IsPublished" type="s:boolean" minOccurs="1" maxOccurs="1"/>
  </s:sequence>
</s:complexType>
```

**Title:** Title of the location corresponding to the URL. The value MUST NOT be null or empty. The string MUST be less than 255 characters in length and MUST NOT contain any of the following characters: \ / : \* ? " < > |.

**Url:** The URL of the location. The value MUST NOT be null or empty and MUST conform to the URL format, as specified in [\[RFC1738\]](#).

**LinkType:** The type of the URL. The value MUST be set to one of the following values:

- 0x0000000000000001: Site
- 0x0000000000000002: **personal site**
- 0x0000000000000004: **portal site**
- 0x0000000000000008: **Project Workspace site**
- 0x0000000001000000: **Document Center**
- 0x0000000002000000: document library
- 0x0000000004000000: **data connection library**
- 0x0000000008000000: **Slide Library**
- 0x0100000000000000: **profile site**
- 0x0200000000000000: Personal Documents library
- 0x1000000002000000: document library template source
- 0x1000000010000000: asset library template source
- 0x1000000020000000: process repository template source

**IsMember:** Indicates whether the user credentials being used to call the service are listed in the Members group of the site on which the service is being called.

**IsPublished:** This element has no meaning and MUST be ignored by the protocol client.

Additional Requirements:

- Three "template source" values are shown in the preceding list: **document library template source**, **asset library template source**, and **process repository template source**. If the protocol server sets **LinkType** to one of these values, the server MUST support the Template Discovery Web Service Protocol [\[MS-TMPLDISC\]](#).

#### **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.

#### **3.1.5 Timer Events**

None.

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

None.



## 4 Protocol Examples

A protocol client might construct the following WSDL message to retrieve a list of URLs.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetLinks
xmlns="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService" />
  </soap:Body>
</soap:Envelope>
```

The protocol server returns the list of URLs in the form of the following WSDL message:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetLinksResponse
xmlns="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService">
      <GetLinksResult>
        <ServerLink>
          <Title>My Site</Title>
          <Url>http://contoso:80/personal/bob/</Url>
          <LinkType>2</LinkType>
          <IsMember>true</IsMember>
          <IsPublished>true</IsPublished>
        </ServerLink>
        <ServerLink>
          <Title>Profile Site</Title>
          <Url>http://contoso:80/mysite/Person.aspx?user=</Url>
          <LinkType>72057594037927936</LinkType>
          <IsMember>>false</IsMember>
          <IsPublished>true</IsPublished>
        </ServerLink>
        <ServerLink>
          <Title>Shared Documents</Title>
          <Url>http://contoso:80/personal/bob/Shared%20Documents</Url>
          <LinkType>144115188075855872</LinkType>
          <IsMember>>false</IsMember>
          <IsPublished>true</IsPublished>
        </ServerLink>
        <ServerLink>
          <Title>Contoso Document Library</Title>
          <Url>http://contoso:80/Documents</Url>
          <LinkType>1152921504640401408</LinkType>
          <IsMember>>false</IsMember>
          <IsPublished>>false</IsPublished>
        </ServerLink>
      </GetLinksResult>
    </GetLinksResponse>
  </soap:Body>
</soap:Envelope>
```

## **5 Security**

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

This protocol introduces no additional security considerations beyond those applicable to its underlying protocols.

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

None.

## 6 Appendix A: Full WSDL

For ease of implementation, the full WSDL and schema are provided in this appendix.

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
xmlns:tns="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService"
xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService">
      <s:element name="GetLinks">
        <s:complexType />
      </s:element>
      <s:element name="GetLinksResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="GetLinksResult"
type="tns:ArrayOfServerLink" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:complexType name="ArrayOfServerLink">
        <s:sequence>
          <s:element minOccurs="0" maxOccurs="unbounded" name="ServerLink"
nillable="true" type="tns:ServerLink" />
        </s:sequence>
      </s:complexType>
      <s:complexType name="ServerLink">
        <s:sequence>
          <s:element minOccurs="1" maxOccurs="1" name="Title" type="s:string" />
          <s:element minOccurs="1" maxOccurs="1" name="Url" type="s:string" />
          <s:element minOccurs="1" maxOccurs="1" name="LinkType" type="s:long" />
          <s:element minOccurs="1" maxOccurs="1" name="IsMember" type="s:boolean" />
          <s:element minOccurs="1" maxOccurs="1" name="IsPublished"
type="s:boolean" />
        </s:sequence>
      </s:complexType>
    </s:schema>
  </wsdl:types>
  <wsdl:message name="GetLinksSoapIn">
    <wsdl:part name="parameters" element="tns:GetLinks" />
  </wsdl:message>
  <wsdl:message name="GetLinksSoapOut">
    <wsdl:part name="parameters" element="tns:GetLinksResponse" />
  </wsdl:message>
  <wsdl:portType name="PublishedLinksServiceSoap">
    <wsdl:operation name="GetLinks">
      <wsdl:input message="tns:GetLinksSoapIn" />
      <wsdl:output message="tns:GetLinksSoapOut" />
    </wsdl:operation>
  </wsdl:portType>
</wsdl:definitions>
```

```

</wsdl:portType>
<wsdl:binding name="PublishedLinksServiceSoap"
    type="tns:PublishedLinksServiceSoap">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
    <wsdl:operation name="GetLinks">
        <soap:operation
            soapAction="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService/Get
            Links" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
<wsdl:binding name="PublishedLinksServiceSoap12"
    type="tns:PublishedLinksServiceSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
    <wsdl:operation name="GetLinks">
        <soap12:operation
            soapAction="http://microsoft.com/webservices/SharePointPortalServer/PublishedLinksService/Get
            Links" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

## 7 Appendix B: Product Behavior

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

- The 2007 Microsoft® Office system
- Microsoft® Office 2010 suites
- Microsoft® Office 2013
- Microsoft® Office SharePoint® Server 2007
- Microsoft® SharePoint® Server 2010
- Microsoft® SharePoint® Server 2013
- Microsoft® SharePoint® Workspace 2010
- Microsoft® Visio® 2010
- Microsoft® Visual Studio® 2010

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.

## 8 Change Tracking

This section identifies changes that were made to the [MS-PLSP] protocol document between the September 2012 and October 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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

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

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

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

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

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

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

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact [protocol@microsoft.com](mailto:protocol@microsoft.com).

<b>Section</b>	<b>Tracking number (if applicable) and description</b>	<b>Major change (Y or N)</b>	<b>Change type</b>
<a href="#">1.3 Overview</a>	Changed the name from 'Protocol Overview (Synopsis)' to read 'Overview'.	N	Content updated for template compliance.
<a href="#">2.2.1 Namespaces</a>	Removed the reference value from the namespace entries that are defined by this protocol.	N	Content updated.
<a href="#">3.1.4.1 GetLinks</a>	Updated the schema to include namespace prefixes.	N	Content updated.
	Removed section 2.2.9 Common Data Structures, as none are defined for this specification.	N	Content removed for template compliance.

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