[MS-MEETS]:
Meetings Web Services Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
04/04/2008	0.1		Initial Availability
06/27/2008	1.0	Major	Revised and edited the technical content
12/12/2008	1.01	Editorial	Revised and edited the technical content
07/13/2009	1.02	Major	Revised and edited the technical content
08/28/2009	1.03	Editorial	Revised and edited the technical content
11/06/2009	1.04	Editorial	Revised and edited the technical content
02/19/2010	2.0	Editorial	Revised and edited the technical content
03/31/2010	2.01	Editorial	Revised and edited the technical content
04/30/2010	2.02	Editorial	Revised and edited the technical content
06/07/2010	2.03	Editorial	Revised and edited the technical content
06/29/2010	2.04	Minor	Clarified the meaning of the technical content.
07/23/2010	2.05	Editorial	Changed language and formatting in the technical content.
09/27/2010	2.05	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	2.05	No change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	2.06	Minor	Clarified the meaning of the technical content.
03/18/2011	2.06	No change	No changes to the meaning, language, or formatting of the technical content.
06/10/2011	2.06	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	3.0	Major	Significantly changed the technical content.
04/11/2012	3.0	No change	No changes to the meaning, language, or formatting of the technical content.

Table of Contents

1 Introduction

This document specifies the Meetings Web Services Protocol. This protocol enables a protocol client to create and update meeting workspaces.

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]:

Coordinated Universal Time (UTC)
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
language code identifier (LCID)
unique identifier (UID)
XML

The following terms are defined in [MS-OFCGLOS]:

absolute URL
delegate
delegator
iCalendar
meeting instance
Meeting Workspace site
parent site
Simple Object Access Protocol (SOAP)
site
site template
SOAP action
SOAP body
SOAP fault
SOAP fault code
SOAP fault detail
SOAP operation
subsite
Uniform Resource Locator (URL)
Web Services Description Language (WSDL)
Web site
XML namespace

The following terms are specific to this document:

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

Release: Wednesday, April 11, 2012

1.2 References

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

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. 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-DTYP] Microsoft Corporation, "Windows Data Types".

[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

[RFC2445] Dawson, F., and Stenerson, D., "Internet Calendaring and Scheduling Core Object Specification (iCalendar)", RFC 2445, November 1998, http://www.rfc-editor.org/rfc/rfc2445.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

[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

[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)

This protocol provides operations to create and update meeting workspaces.

A **Meeting Workspace site** is a convenient, centralized place for project collaboration and meeting proceedings. For example, after a meeting, results are published on the Meeting Workspace site. The most current versions of team documents reside on the workspace site, so attendees can send fewer files via e-mail when content is changed.

Each method in the protocol is a **SOAP operation** that accepts a set of parameters as a SOAP request and returns a set of values as a SOAP response. The protocol client sends a request to the protocol server in a **SOAP request** message, and the protocol server sends return values to the protocol client in a **SOAP response** message.
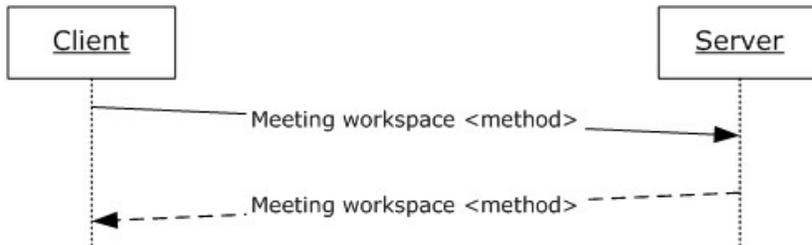
Figure 1: Client-server request and response

1.4   Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [SOAP1.1], or as described in [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:
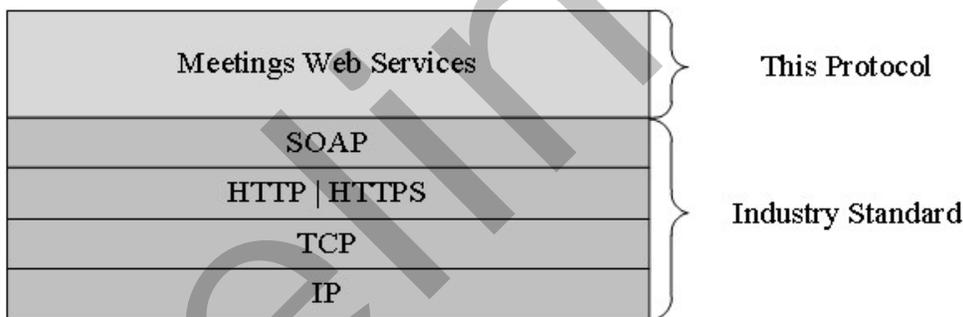
Figure 2: This protocol in relation to other protocols

The protocol has no interactions with parallel protocols. There are no other protocols that substitute for it.

1.5 Prerequisites/Preconditions

This protocol operates against a **Web site** that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending "/_vti_bin/meetings.asmx" to the URL of the Web site—for example, www.contoso.com/Repository/_vti_bin/meetings.asmx.

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

1.6 Applicability Statement

This protocol can be used when there are requirements to communicate meeting data (attendees, meeting time, duration, subject, location, and other metadata) to a remote protocol server.

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

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

2.1   Transport

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

Protocol messages MUST be formatted as specified in [SOAP1.1] section 4, SOAP Envelope, or in [SOAP1.2/1] section 5, SOAP Message Construct. Protocol server faults MUST be returned by using HTTP status codes as specified in [RFC2616] section 10, Status Code Definitions, or using SOAP faults as specified in [SOAP1.1] section 4.4, SOAP Fault or [SOAP1.2/1] section 5.4, SOAP Fault.

2.2   Common Message Syntax

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

2.2.1   Namespaces

This specification defines and references various **XML namespaces** by using the mechanisms specified in [XMLNS]. Although this document associates a specific XML namespace prefix to each XML namespace that is used, the choice of any particular prefix is implementation-specific and not significant for interoperability.

The following table shows these namespaces, their prefixes, and the reference in which they are specified.

Prefix	Namespace URI	Reference
s	www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
soap	schemas.xmlsoap.org/wsdl/soap/	[WSDL]
soap12	schemas.xmlsoap.org/wsdl/soap12/	[WSDL]
tns	schemas.microsoft.com/sharepoint/soap/meetings/	
wsdl	schemas.xmlsoap.org/wsdl/	[WSDL]

2.2.2   Messages

None.

2.2.3   Elements

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

Element	Description
detail	Error information associated with a **SOAP fault**.
icalText	Information about a **meeting instance**.
lcid	A **language code identifier (LCID)** for a workspace.
recurrenceId	An identifier that represents an instance of a recurring meeting.
sequence	A sequence or revision number of a meeting instance.
UID	A unique identifier that represents a meeting.

2.2.3.1 Detail

This element contains error information for a SOAP fault. It consists of a **SOAP fault code** combined with **SOAP fault detail** text that describes the error. Whenever an operation in this protocol fails, it returns a SOAP fault in this format. This element is defined as follows:

```
<s:element name="detail">
  <s:complexType>
    <s:sequence>
      <s:element name="errorstring" type="s:string" minOccurs="1" maxOccurs="1"/>
      <s:element name="errorcode" type="s:string" minOccurs="0" maxOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

2.2.3.2 IcalText

This element contains information about a meeting instance. This MUST be a valid **iCalendar** object as specified in [RFC2445].

2.2.3.3 Lcid

This element contains a language code identifier (LCID).

2.2.3.4 RecurrenceId

This element contains an identifier that specifies an instance of a recurring meeting, as specified in [RFC2445].

2.2.3.5 Sequence

This element contains a sequence or revision number of a meeting instance, as specified in [RFC2445].

2.2.3.6 UID

This element contains a unique identifier specifying a meeting. This MUST be a valid **UID** string, as used by calendaring objects and specified in [RFC2445]. For a recurring meeting, each meeting instance shares a common UID. To distinguish between these meeting instances, each recurring meeting instance is also assigned a **RecurrenceID**. This is the date on which that meeting instance occurs in the series that was calculated with the time zone of the meeting organizer.

2.2.4 Complex Types

The following table summarizes the set of common XML Schema complex type definitions used by this protocol. XML Schema complex types that are specific to a particular operation are specified with the operation in section 3.

Complex type	Description
AddMeeting	Information about a meeting instance newly added to a workspace.
AttendeeUpdateStatus	Information about a meeting instance newly added or updated in a workspace.

2.2.4.1 AddMeeting

This complex type specifies information about a meeting instance newly added to a workspace. This type is defined as follows:

```
<s:complexType name="AddMeeting">
  <s:attribute name="Url" type="s:string"/>
  <s:attribute name="HostTitle" type="s:string"/>
  <s:attribute name="UniquePermissions" type="s:boolean"/>
  <s:attribute name="MeetingCount" type="s:int"/>
  <s:attribute name="AnonymousAccess" type="s:boolean"/>
  <s:attribute name="AllowAuthenticatedUsers" type="s:boolean"/>
</s:complexType>
```

Url: The **absolute URL** of the meeting instance in the workspace, with an indicator of the instance in the absolute URL query section.

HostTitle: The name of the meeting organizer.

UniquePermissions: Specifies whether the meeting workspace **subsite** contains unique role assignments.

MeetingCount: The number of meeting instances in the workspace, including the one just added.

AnonymousAccess: Specifies whether anonymous access has been granted for a meeting workspace subsite.

AllowAuthenticatedUsers: Specifies whether access to a meeting workspace subsite has been granted to authenticated users.

2.2.4.2 AttendeeUpdateStatus

This complex type specifies information about a meeting instance newly added or updated in a workspace. This type is defined as follows:

```
<s:complexType name="AttendeeUpdateStatus">
  <s:attribute name="Code" type="s:int"/>
  <s:attribute name="Detail" type="s:string"/>
  <s:attribute name="ManageUserPage" type="s:string"/>
</s:complexType>
```

Code: An error code associated with the text message that describes the problem that the protocol server encountered while updating the meeting instance. This number is set to zero if there was no error.

Detail: The error that occurred during the update of the meeting instance. This string is empty if there was no error.

ManageUserPage: The URL of a page in the meeting workspace that displays the list of attendees in the meeting instance for viewing or editing.

2.2.5 Simple Types

The following describes the XML Schema simple type definitions defined in this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

2.2.5.1 CaseInsensitiveTrueFalse

The definition of the **CaseInsensitiveTrueFalse** element type is as follows:

```
<s:simpleType name="CaseInsensitiveTrueFalse">
  <s:restriction base="s:string">
    <s:pattern value="[Tt][Rr][Uu][Ee]|[Ff][Aa][Ll][Ss][Ee]"/>
  </s:restriction>
</s:simpleType>
```

2.2.5.2 CaseInsensitiveTrueFalseOrEmpty

The definition of the **CaseInsensitiveTrueFalseOrEmpty** element type is as follows:

```
<s:simpleType name="CaseInsensitiveTrueFalseOrEmpty">
  <s:restriction base="s:string">
    <s:pattern value="([Tt][Rr][Uu][Ee]|[Ff][Aa][Ll][Ss][Ee])?"/>
  </s:restriction>
</s:simpleType>
```

2.2.5.3 UnsignedIntOrEmpty

The definition of the **UnsignedIntOrEmpty** element type is as follows:

```
<s:simpleType name="UnsignedIntOrEmpty">
  <s:union memberTypes="s:unsignedInt tns:Empty"/>
</s:simpleType>
```

The Empty element type is specified in section 2.2.5.4.

2.2.5.4 Empty

The definition of the **Empty** element type is as follows:

```
<s:simpleType name="Empty">
  <s:restriction base="s:string">
    <s:maxLength value="0"/>
```

```
        </s:restriction>
    </s:simpleType>
```

2.2.6 Attributes

None.

2.2.7 Groups

None.

2.2.8 Attribute Groups

None.

3 Protocol Details

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

The protocol client side of this protocol is a pass-through. Neither additional timers nor other states are required from the protocol client. 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 Meetings Soap 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. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

This protocol enables a Web server to create and update meeting workspaces. These workspaces are for online collaboration. A user can access the Web site managed by the protocol to attend a meeting or a series of meetings, each of which has its own meeting workspace.

Data type	Description
Web site	Used when creating a new meeting workspace subsite.
Meeting workspace	Each Web site has zero or more meeting workspace subsites.
Meeting instance	Each meeting workspace subsite contains zero or more meeting instances.
Attendee	Each meeting instance in a meeting workspace contains one or more attendees.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table specifies all operations associated with this protocol.

Operation	Description
AddMeeting	Adds a meeting to an existing workspace.
AddMeetingFromICal	Adds a meeting to an existing workspace, based on a calendar object.

Operation	Description
CreateWorkspace	Creates a new workspace subsite.
DeleteWorkspace	Deletes a workspace.
GetMeetingsInformation	Queries information from a Web site about meeting workspaces on it or information about a meeting workspace itself.
GetMeetingWorkspaces	Obtains a list of existing meeting workspace subsites from a parent **site (2)**.
RemoveMeeting	Deletes a meeting from an existing workspace.
RestoreMeeting	Restores a previously deleted meeting to a workspace.
SetAttendeeResponse	Specifies attendee response to a meeting request in a workspace.
SetWorkspaceTitle	Specifies a user-friendly name for a workspace.
UpdateMeeting	Updates content of a meeting in a workspace.
UpdateMeetingFromICal	Updates content of a meeting in a workspace, based on a calendar object.

3.1.4.1 AddMeeting

This operation adds a meeting to an existing workspace. This operation is defined as follows:

```
<wsdl:operation name="AddMeeting">
    <wsdl:input message="AddMeetingSoapIn" />
    <wsdl:output message="AddMeetingSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddMeetingSoapIn** request message, and the protocol server responds with an **AddMeetingSoapOut** response message.

This operation MUST be used when adding meetings not based on the Gregorian calendar, because the **iCalendar** format as used in **AddMeetingFromICal** does not support non-Gregorian recurring meetings. An implementation SHOULD use **AddMeetingFromICal** in all other instances.

This operation MUST NOT be used to add meetings to a recurring meeting workspace.

3.1.4.1.1 Messages

3.1.4.1.1.1 AddMeetingSoapIn

This message contains the request for the **AddMeeting** operation.

The **SOAP action** value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeeting
```

The **SOAP body** contains an **AddMeeting** element.

3.1.4.1.1.2 AddMeetingSoapOut

This message contains the response for the **AddMeeting** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeeting
```

The SOAP body contains an **AddMeetingResponse** element.

3.1.4.1.2 Elements

3.1.4.1.2.1 AddMeeting

This element specifies the input parameters for the **AddMeeting** operation. For information about meeting instance parameters, see the common **AddMeeting** type described in section 2.2.4.1.

```
<s:element name="AddMeeting">
  <s:complexType>
    <s:sequence>
      <s:element name="organizerEmail" type="s:string" minOccurs="0"/>
      <s:element name="uid" type="s:string"/>
      <s:element name="sequence" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="utcDateStamp" type="s:dateTime" minOccurs="0"/>
      <s:element name="title" type="s:string" minOccurs="0"/>
      <s:element name="location" type="s:string" minOccurs="0"/>
      <s:element name="utcDateStart" type="s:dateTime"/>
      <s:element name="utcDateEnd" type="s:dateTime"/>
      <s:element name="nonGregorian" type="s:boolean" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

organizerEmail: The e-mail address of the meeting organizer. This is usually a fully qualified e-mail address in the form *user@domain*, but it can be a simple unqualified user name if both the protocol client and the protocol server are in a default domain.

uid: The UID that represents this meeting.

sequence: The sequence or revision number of this meeting instance. If this element is absent, the starting sequence number is zero.

utcDateStamp: The time at which this meeting instance was created.

title: The subject of this meeting. This string has a maximum length of 255 characters.

location: The physical or virtual location in which this meeting is to take place. This string has a maximum length of 255 characters.

utcDateStart: The time at which this meeting begins.

utcDateEnd: The time at which this meeting ends. Its value MUST be greater than or equal to **utcDateStart**.

nonGregorian: Specifies whether the meeting organizer is using the Gregorian calendar. The default value is FALSE.

3.1.4.1.2.2 AddMeetingResponse

This element specifies the output of **AddMeeting** operation. This element is defined as follows:

```
<s:element name="AddMeetingResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="AddMeetingResult" minOccurs="0">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="AddMeeting" type="tns:AddMeeting"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="AddMeeting">
  <s:attribute name="Url" type="s:string" />
  <s:attribute name="HostTitle" type="s:string" />
  <s:attribute name="UniquePermissions" type="s:boolean" />
  <s:attribute name="MeetingCount" type="s:int" />
  <s:attribute name="AnonymousAccess" type="s:boolean" />
  <s:attribute name="AllowAuthenticatedUsers" type="s:boolean" />
</s:complexType>
```

If this operation is sent to a Web site that is not a Meeting Workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000006".

If adding the meeting to a Meeting Workspace fails for a reason not covered by the preceding error, the response MUST be a SOAP fault with SOAP fault code "0x00000007".

3.1.4.2 AddMeetingFromICal

This operation adds a meeting to an existing workspace, based on a calendar object. This operation is defined as follows:

```
<wsdl:operation name="AddMeetingFromICal">
    <wsdl:input message="AddMeetingFromICalSoapIn" />
    <wsdl:output message="AddMeetingFromICalSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddMeetingFromICalSoapIn** request message, and the protocol server responds with an **AddMeetingFromICalSoapOut** response message.

This operation is used to add meetings. The **AddMeeting** operation MUST be used when adding meetings not based on the Gregorian calendar because this operation does not support non-Gregorian recurring meetings.

3.1.4.2.1 Messages

3.1.4.2.1.1 AddMeetingFromICalSoapIn

This message contains the request for the **AddMeetingFromICal** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeetingFromICal
```

The SOAP body contains an **AddMeetingFromICal** element.

3.1.4.2.1.2 AddMeetingFromICalSoapOut

This message contains the response for the **AddMeetingFromICal** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeetingFromICal
```

The SOAP body contains an **AddMeetingFromICalResponse** element.

3.1.4.2.2 Elements

3.1.4.2.2.1 AddMeetingFromICal

This element specifies the input parameters for the **AddMeetingFromICal** operation. This operation is defined as follows:

```
<s:element name="AddMeetingFromICal">
  <s:complexType>
    <s:sequence>
      <s:element name="organizerEmail" type="s:string" minOccurs="0"/>
      <s:element name="icalText" type="s:string"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

organizerEmail: Represents the e-mail address of the meeting organizer. This is the **delegate** who sent out the meeting request. Otherwise, this field MUST be empty. When a delegate sends the meeting request, the **icalText** field represents the **delegator** on whose behalf the meeting request was sent.

icalText: Information about the meeting instance to add. This MUST be a valid **iCalendar** object as specified in [RFC2445]. The total number of attendee elements in this parameter MUST be less than or equal to 254. If this parameter contains more than 254 attendee elements, the response MUST be a SOAP fault with **SOAP fault** code "0x00000013".

3.1.4.2.2.2 AddMeetingFromICalResponse

The **AddMeetingFromICalResponse** element specifies the output of the **AddMeetingFromICal** operation. This element is defined as follows:

```
<s:element name="AddMeetingFromICalResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="AddMeetingFromICalResult" minOccurs="0">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="AddMeetingFromICal" type="tns:AddMeetingFromICal" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="AddMeetingFromICal">
  <s:complexContent>
    <s:extension base="tns:AddMeeting">
      <s:sequence>
        <s:element name="AttendeeUpdateStatus" type="tns:AttendeeUpdateStatus" />
      </s:sequence>
    </s:extension>
  </s:complexContent>
</s:complexType>
```

AddMeetingFromICalResult: The response **XML** consists of two elements containing information about the meeting instance newly-added to the Meeting Workspace.

If this operation is sent to a Web site that is not a Meeting Workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000006".

If the protocol client tries to add a recurring meeting to a workspace that already contains a meeting, the response MUST be a SOAP fault with SOAP fault code "0x00000003".

If adding the meeting to a meeting workspace fails for a reason not covered by any of the preceding errors, the response MUST be a SOAP fault with SOAP fault code "0x00000007".

3.1.4.3   CreateWorkspace

This operation creates a new meeting workspace subsite. This operation is defined as follows:

```
<wsdl:operation name="CreateWorkspace">
    <wsdl:input message="CreateWorkspaceSoapIn" />
    <wsdl:output message="CreateWorkspaceSoapOut" />
</wsdl:operation>
```

The protocol client sends a **CreateWorkspaceSoapIn** request message, and the protocol server responds with a **CreateWorkspaceSoapOut** response message.

This operation is used when the protocol client is composing a meeting request message, and the user chooses to have the meeting instance linked with a meeting workspace.

3.1.4.3.1   Messages

3.1.4.3.1.1   CreateWorkspaceSoapIn

This message contains the request for the **CreateWorkspace** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/CreateWorkspace
```

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

3.1.4.3.1.2 CreateWorkspaceSoapOut

This message is the response message for the **CreateWorkspace** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/CreateWorkspace
```

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

3.1.4.3.2 Elements

3.1.4.3.2.1 CreateWorkspace

The **CreateWorkspace** element specifies the input parameters for the **CreateWorkspace** operation. This element is defined as follows:

```
<s:element name="CreateWorkspace">
  <s:complexType>
    <s:sequence>
      <s:element name="title" type="s:string" minOccurs="1"/>
      <s:element name="templateName" type="s:string" minOccurs="0"/>
      <s:element name="lcid" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="timeZoneInformation" type="tns:TimeZoneInf" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

title: The title of the new meeting workspace. This is the subject of the associated meeting request. This string is 255 characters or less in length. Remaining characters are truncated.

templateName: The name of the **site template** to use for the new meeting workspace.

lcid: The language code identifier (LCID) for the new workspace. If this parameter is absent, the language code identifier (LCID) of the parent Web site is used. If a value for this parameter is provided, it MUST be a language code identifier (LCID) contained in the **GetMeetingsInformationResponse** response after the client protocol sends the **GetMeetingsInformation** message with the **requestFlags** parameter set to 2. See section 3.1.4.5.2.1 and section 3.1.4.5.2.2 regarding the **GetMeetingsInformation** and **GetMeetingsInformationResponse** messages respectively.

timeZoneInformation: The time zone on the system of the meeting organizer.

3.1.4.3.2.2 CreateWorkspaceResponse

The **CreateWorkspaceResponse** element specifies the output of the **CreateWorkspace** operation. This element is defined as follows:

```
<s:element name="CreateWorkspaceResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="CreateWorkspaceResult" minOccurs="0">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="CreateWorkspace"
                       type="tns:CreateWorkspace"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="CreateWorkspace">
  <s:attribute name="Url" type="s:string"/>
</s:complexType>
```

CreateWorkspaceResult: The response XML consists of one element containing information about the newly created meeting workspace.

CreateWorkspace: This element contains information about a newly created meeting workspace.

Url: The URL of the newly created meeting workspace.

This operation cannot create a meeting workspace as a subsite of another meeting workspace. If this operation is sent to a Web site that is a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000001".

3.1.4.3.3 Complex Types

3.1.4.3.3.1 TimeZoneInf

This complex type specifies information about a time zone. This type is defined as follows:

```
<s:complexType name="TimeZoneInf">
  <s:sequence>
    <s:element name="bias" type="s:int"/>
    <s:element name="standardDate" type="tns:SysTime"/>
    <s:element name="standardBias" type="s:int"/>
    <s:element name="daylightDate" type="tns:SysTime"/>
    <s:element name="daylightBias" type="s:int"/>
  </s:sequence>
</s:complexType>
```

bias: The current bias for local time translation, in minutes. This bias is the difference in minutes between **Coordinated Universal Time (UTC)** and local time. Translations between **UTC** and local time are based on the formula: `UTC = local time + bias`. For example, for Eastern Standard Time, bias is 300, meaning 5 hours before UTC.

standardDate: The date and time at which standard time begins, as specified in [RFC2445].

standardBias: The value used during local time translations that occur during standard time. This number is added to the **bias** element to form the total bias used during standard time. In most time zones, this is zero, meaning that the clock is not adjusted during standard time.

daylightDate: The date and time at which daylight saving time begins, as specified in [RFC2445].

daylightBias: The value used during local time translations for daylight saving time. This number is added to the **bias** element to form the total bias used during daylight saving time. In most time zones, this is –60, meaning the clock is advanced 1 hour during daylight saving time.

3.1.4.3.3.2 SysTime

This complex type specifies a system date and time. The fields of this type are the same as those in the SYSTEMTIME type as specified in [MS-DTYP]. This type is defined as follows:

```
<s:complexType name="SysTime">
  <s:sequence>
    <s:element name="year" type="s:unsignedShort"/>
    <s:element name="month" type="s:unsignedShort"/>
    <s:element name="dayOfWeek" type="s:unsignedShort"/>
    <s:element name="day" type="s:unsignedShort"/>
    <s:element name="hour" type="s:unsignedShort"/>
    <s:element name="minute" type="s:unsignedShort"/>
    <s:element name="second" type="s:unsignedShort"/>
    <s:element name="milliseconds" type="s:unsignedShort"/>
  </s:sequence>
</s:complexType>
```

year: The year.

If this type is a field in the **TimeZoneInf** type and this element is zero, this element specifies that the transition to daylight saving time or standard time is a relative date that happens annually. If this element is nonzero, it specifies that the transition date is absolute and only happens once.

month: The month of the year. This number MUST be in the range from 1 through 12, where 1 is January and 12 is December.

dayOfWeek: The day of the week. This number MUST be in the range from zero through 6, where zero is Sunday and 6 is Saturday.

day: The day of the month. This number MUST be in the range from 1 through 31 and MUST be appropriate to **month** and **year** values. For example, if **month** is set to 2, or February, **day** cannot exceed 29, and cannot exceed 28 in non-leap years.

If **year** is set to zero, specifying that the transition to daylight saving time or standard time is an annual occurrence, **day** specifies the number of times this weekday occurs in the month. In this case, **day** MUST be in the range from 1 through 5, where 5 specifies the final occurrence during the month if that weekday only occurs 4 times. For example, the first Sunday in April is specified as follows: **year** is set to zero, **month** is set to 4, **dayOfWeek** is set to zero, and **day** is set to 1. The last Thursday in October is specified as follows: **year** is set to zero, **month** is set to 10, **dayOfWeek** is set to 4, and **day** is set to 5.

hour: The hour of the day. This number MUST be in the range from zero through 23, where zero is 00:00 or 12:00 am, and 23 is 23:00 or 11:00 pm.

minute: The minute of the hour. This number MUST be in the range from zero through 59.

second: The second of the minute. This number MUST be in the range from zero through 59.

milliseconds: The millisecond of the second. This number MUST be in the range from zero through 999.

3.1.4.4 DeleteWorkspace

This operation deletes a workspace. This operation is defined as follows:

```
<wsdl:operation name="DeleteWorkspace">
    <wsdl:input message="DeleteWorkspaceSoapIn" />
    <wsdl:output message="DeleteWorkspaceSoapOut" />
</wsdl:operation>
```

The protocol client sends a **DeleteWorkspaceSoapIn** request message, and the protocol server responds with a **DeleteWorkspaceSoapOut** response message. This operation takes no parameters because it deletes the meeting workspace subsite to which the request is sent. This operation fails if sent to a Web site that is not a meeting workspace.

3.1.4.4.1 Messages

3.1.4.4.1.1 DeleteWorkspaceSoapIn

This message contains the request for the **DeleteWorkspace** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/DeleteWorkspace
```

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

3.1.4.4.1.2 DeleteWorkspaceSoapOut

This message contains the response for the **DeleteWorkspace** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/DeleteWorkspace
```

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

3.1.4.4.2 Elements

3.1.4.4.2.1 DeleteWorkspace

The **DeleteWorkspace** element specifies the input parameters for the **DeleteWorkspace** operation. This element is defined as follows:

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

3.1.4.4.2.2 DeleteWorkspaceResponse

The **DeleteWorkspaceResponse** element specifies the output of the **DeleteWorkspace** operation. This element is defined as follows:

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

If this operation is sent to a Web site that is not a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000004".

3.1.4.5 GetMeetingsInformation

This operation queries information from a Web site about meeting workspaces on it or information about a meeting workspace itself. This operation is defined as follows:

```
<wsdl:operation name="GetMeetingsInformation">
    <wsdl:input message="GetMeetingsInformationSoapIn" />
    <wsdl:output message="GetMeetingsInformationSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetMeetingsInformationSoapIn** request message, and the protocol server responds with a **GetMeetingsInformationSoapOut** response message.

3.1.4.5.1 Messages

3.1.4.5.1.1 GetMeetingsInformationSoapIn

This is the request message for the **GetMeetingsInformation** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingsInformation
```

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

3.1.4.5.1.2 GetMeetingsInformationSoapOut

This message contains the response for the **GetMeetingsInformation** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingsInformation
```

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

3.1.4.5.2 Elements

3.1.4.5.2.1 GetMeetingsInformation

The **GetMeetingsInformation** element specifies the input parameters associated with the **GetMeetingsInformation** operation. This element is defined as follows:

```
<s:element name="GetMeetingsInformation">
  <s:complexType>
    <s:sequence>
      <s:element name="requestFlags" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="lcid" type="s:unsignedInt" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

requestFlags: This field contains bit flags that specify what information to request from the Web site. Any or all bits can be are set. The following table specifies possible values for these bits.

Value	Meaning
0x1	Queries whether the user has permission to create meeting workspaces on this Web site.
0x2	Queries for the site template languages supported.
0x4	Queries for the list of site templates that are supported.
0x8	Queries other status values of a workspace.

lcid: The language code identifier (LCID) of the meeting workspace templates to be returned. This parameter is used only when the *requestFlags* parameter has bit flag 0x4 set.

3.1.4.5.2.2 GetMeetingsInformationResponse

The **GetMeetingsInformationResponse** element specifies the output of the **GetMeetingsInformation** operation. This element is defined as follows:

```
<s:element name="GetMeetingsInformationResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="GetMeetingsInformationResult">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="MeetingsInformation">
              <s:complexType mixed="true">
                <s:element minOccurs="0" maxOccurs="1" name="AllowCreate"
type="tns:CaseInsensitiveTrueFalse" />
                <s:element name="ListTemplateLanguages" minOccurs="0">
                  <s:complexType>
                    <s:sequence>
                      <s:element minOccurs="0" maxOccurs="unbounded" name="LCID"
type="s:string" />
                    </s:sequence>
                  </s:complexType>
                </s:element>
                <s:element name="ListTemplates" minOccurs="0">
```

```
                <s:complexType>
                 <s:sequence>
                   <s:element minOccurs="0" maxOccurs="unbounded" name="Template"
 type="tns:Template" />
                   </s:sequence>
                 </s:complexType>
               </s:element>
               <s:element minOccurs="0" maxOccurs="1" name="WorkspaceStatus"
 type="tns:WorkspaceStatus" />
             </s:complexType>
           </s:element>
         </s:sequence>
       </s:complexType>
     </s:element>
 </s:element>
 <s:complexType name="Template">
   <s:attribute name="Name" type="s:string"/>
   <s:attribute name="Title" type="s:string"/>
   <s:attribute name="Id" type="s:int"/>
   <s:attribute name="Description" type="s:string"/>
   <s:attribute name="ImageUrl" type="s:string"/>
 </s:complexType>
 <s:complexType name="WorkspaceStatus">
   <s:attribute name="UniquePermissions" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
   <s:attribute name="MeetingCount" type="tns:UnsignedIntOrEmpty"/>
   <s:attribute name="AnonymousAccess" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
   <s:attribute name="AllowAuthenticatedUsers" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
 </s:complexType>
```

GetMeetingsInformationResult: The response XML consists of up to four elements, one for each **requestFlags** flag. An element is present if its corresponding **requestFlags** was set as follows:

AllowCreate: Specifies whether the user has permission to create meeting workspaces on this subsite. This element is present in the response when bit flag 0x1 is specified in **requestFlags**. When bit flag 0x1 is specified, the operation MUST be sent to a parent Web site, as opposed to a meeting workspace subsite itself. If the operation is sent to a Web site that is a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000001".

```
 <s:element name="AllowCreate" type="tns:CaseInsensitiveTrueFalse" minOccurs="0"/>
```

The element type **CaseInsensitiveTrueFalse** is specified in section 2.2.5.1.

ListTemplateLanguages: Lists the site template languages supported. This element is present in the response when bit flag 0x2 is specified in **requestFlags**.

```
 <s:element name="ListTemplateLanguages" minOccurs="0">
   <s:complexType>
     <s:sequence>
       <s:element minOccurs="0" maxOccurs="unbounded" name="LCID" type="s:string"/>
     </s:sequence>
   </s:complexType>
 </s:element>
```

LCID: The language code identifier (LCID) of the available site template.

ListTemplates: The list of site templates supported. This element is present in the response when bit flag 0x4 is specified in **requestFlags**.

```
<s:element name="ListTemplates" minOccurs="0">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="unbounded" name="Template" type="tns:Template"/>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="Template">
  <s:attribute name="Name" type="s:string"/>
  <s:attribute name="Title" type="s:string"/>
  <s:attribute name="Id" type="s:int"/>
  <s:attribute name="Description" type="s:string"/>
  <s:attribute name="ImageUrl" type="s:string"/>
</s:complexType>
```

Template: The available site template.

Name: The short name of the site template.

Title: The title of the site template.

Id: The identification number of the site template.

Description: A description of the site template.

ImageUrl: The URL of an image or icon of the site template.

WorkspaceStatus: The status of a workspace. This element is present in the response when bit flag 0x8 is specified in **requestFlags**.

```
<s:element name="WorkspaceStatus" type="tns:WorkspaceStatus" minOccurs="0"/>
  <s:complexType name="WorkspaceStatus">
    <s:attribute name="UniquePermissions" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
    <s:attribute name="MeetingCount" type="tns:UnsignedIntOrEmpty"/>
    <s:attribute name="AnonymousAccess" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
    <s:attribute name="AllowAuthenticatedUsers" type="tns:CaseInsensitiveTrueFalseOrEmpty"/>
  </s:complexType>
</s:element>
```

UniquePermissions: Specifies whether the meeting workspace subsite contains unique role assignments. The element type CaseInsensitiveTrueFalseOrEmpty is specified in section 2.2.5.2.

MeetingCount: The number of single meeting instances on the subsite. This MUST be set to −1 if the meeting workspace subsite has a recurring meeting. The element type UnsignedIntOrEmpty is specified in section 2.2.5.3.

AnonymousAccess: Specifies whether anonymous access has been granted for a meeting workspace subsite. The element type CaseInsensitiveTrueFalseOrEmpty is specified in section 2.2.5.2.

AllowAuthenticatedUsers: Specifies whether access to a meeting workspace subsite has been granted to authenticated users. The element type CaseInsensitiveTrueFalseOrEmpty is specified in section 2.2.5.2.

3.1.4.6 GetMeetingWorkspaces

This operation obtains a list of created meeting workspace subsites from a parent Web site. This operation is defined as follows:

```
<wsdl:operation name="GetMeetingWorkspaces">
    <wsdl:input message="GetMeetingWorkspacesSoapIn" />
    <wsdl:output message="GetMeetingWorkspacesSoapOut" />
</wsdl:operation>
```

3.1.4.6.1 Messages

3.1.4.6.1.1 GetMeetingWorkspacesSoapIn

This message contains the request for a list of meeting workspaces to which a meeting can be added.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingWorkspaces
```

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

3.1.4.6.1.2 GetMeetingWorkspacesSoapOut

This message contains the response for the **GetMeetingWorkspaces** operation. The protocol server MUST return only workspaces to which the protocol client can add meetings.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingWorkspaces
```

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

3.1.4.6.2 Elements

3.1.4.6.2.1 GetMeetingWorkspaces

The **GetMeetingWorkspaces** element specifies the input parameters for the **GetMeetingWorkspaces** operation. This element is defined as follows:

```
<s:element name="GetMeetingWorkspaces">
  <s:complexType>
    <s:sequence>
      <s:element name="recurring" type="s:boolean" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
```

```
      </s:element>
```

recurring: Specifies whether the meeting workspaces returned are limited to those that can be associated with a recurring meeting. If false, empty workspaces and single instance workspaces are returned. If true, only empty workspaces are returned.

3.1.4.6.2.2 GetMeetingWorkspacesResponse

The **GetMeetingWorkspacesResponse** element specifies the output of **GetMeetingWorkspaces** operation. This element is defined as follows:

```
<s:element name="GetMeetingWorkspacesResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetMeetingWorkspacesResult" minOccurs="0">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="MeetingWorkspaces" minOccurs="0">
              <s:complexType>
                <s:sequence>
                  <s:element minOccurs="0" maxOccurs="unbounded" name="Workspace"
type="tns:Workspace"/>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="Workspace">
  <s:attribute name="Url" type="s:string"/>
  <s:attribute name="Title" type="s:string"/>
</s:complexType>
```

GetMeetingWorkspacesResult: The response XML consists of one element containing a list of meeting workspaces.

MeetingWorkspaces: A list of meeting workspaces.

Workspace: An individual meeting workspace.

Url: The URL of the meeting workspace.

Title: The title of the meeting workspace.

3.1.4.7 RemoveMeeting

This operation deletes a meeting from an existing workspace. This operation is defined as follows:

```
<wsdl:operation name="RemoveMeeting">
    <wsdl:input message="RemoveMeetingSoapIn" />
    <wsdl:output message="RemoveMeetingSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveMeetingSoapIn** request message, and the protocol server responds with a **RemoveMeetingSoapOut** response message.

If the meeting organizer deletes a meeting instance on the protocol client and the meeting is associated with a meeting workspace, the protocol client calls this operation to delete the meeting from the workspace.

3.1.4.7.1 Messages

3.1.4.7.1.1 RemoveMeetingSoapIn

This message contains the request for the **RemoveMeeting** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/RemoveMeeting
```

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

3.1.4.7.1.2 RemoveMeetingSoapOut

This message contains the response for the **RemoveMeeting** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/RemoveMeeting
```

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

3.1.4.7.2 Elements

3.1.4.7.2.1 RemoveMeeting

This element specifies the input parameters for the **RemoveMeeting** operation. This element is defined as follows:

```
<s:element name="RemoveMeeting">
  <s:complexType>
    <s:sequence>
      <s:element name="recurrenceId" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="uid" type="s:string"/>
      <s:element name="sequence" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="utcDateStamp" type="s:dateTime" minOccurs="0"/>
      <s:element name="cancelMeeting" type="s:boolean" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

recurrenceId: The instance of a recurring meeting to delete. For single instance meetings, this MUST be set to zero.

uid: The UID specifying the meeting to delete.

sequence: The sequence number of a meeting instance to delete. The default value is zero. If the meeting was updated using the UpdateMeeting operation, the sequence provided MUST be equal to or greater than the sequence input parameter for the UpdateMeeting element. See section 3.1.4.11.2.1 for more information regarding the UpdateMeeting operation.

utcDateStamp: The time stamp for the time at which this meeting instance was deleted.

cancelMeeting: Specifies whether the meeting is being cancelled in addition to being deleted from the workspace.

3.1.4.7.2.2   RemoveMeetingResponse

The **RemoveMeetingResponse** element specifies the output of the **RemoveMeeting** operation. This element is defined as follows:

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

3.1.4.8   RestoreMeeting

This operation restores a previously deleted meeting to a workspace. This operation is defined as follows:

```
<wsdl:operation name="RestoreMeeting">
    <wsdl:input message="RestoreMeetingSoapIn" />
    <wsdl:output message="RestoreMeetingSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RestoreMeetingSoapIn** request message, and the protocol server responds with a **RestoreMeetingSoapOut** response message.

This operation undoes a previous action. For example, a meeting request form on the protocol client is closed without saving, and the meeting workspace needs to be reverted to the last persisted state. This operation does not restore individual meeting instances in a recurring meeting because it does not have a *recurrenceId* parameter.

3.1.4.8.1   Messages

3.1.4.8.1.1   RestoreMeetingSoapIn

This message requests that a meeting be restored.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/RestoreMeeting
```

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

3.1.4.8.1.2   RestoreMeetingSoapOut

This response is sent when a meeting is restored.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/RestoreMeeting
```

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

3.1.4.8.2 Elements

3.1.4.8.2.1 RestoreMeeting

This element specifies the input parameters for the **RestoreMeeting** operation. This element is defined as follows:

```
<s:element name="RestoreMeeting">
  <s:complexType>
    <s:sequence>
      <s:element name="uid" type="s:string"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

uid: The UID specifying the meeting to restore.

3.1.4.8.2.2 RestoreMeetingResponse

This element specifies the output of the **RestoreMeeting** operation. This element is defined as follows:

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

If the meeting specified by the **uid** parameter in the **RestoreMeeting** operation does not exist in the meeting workspace, a SOAP fault response is returned with SOAP fault code "0x8102003e". See section 2.2.3.1 regarding the SOAP fault message.

3.1.4.9 SetAttendeeResponse

This operation specifies attendee response to a meeting request in a workspace. This operation is defined as follows:

```
<wsdl:operation name="SetAttendeeResponse">
    <wsdl:input message="SetAttendeeResponseSoapIn" />
    <wsdl:output message="SetAttendeeResponseSoapOut" />
</wsdl:operation>
```

The protocol client sends a **SetAttendeeResponseSoapIn** request message, and the protocol server responds with a **SetAttendeeResponseSoapOut** response message.

When an attendee accepts or declines a meeting request, the protocol client checks whether the meeting is linked with a meeting workspace and, if so, updates the workspace.

3.1.4.9.1 Messages

3.1.4.9.1.1 SetAttendeeResponseSoapIn

This message requests the **SetAttendeeResponse** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/SetAttendeeResponse
```

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

3.1.4.9.1.2 SetAttendeeResponseSoapOut

This message contains the response to the **SetAttendeeResponse** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/SetAttendeeResponse
```

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

3.1.4.9.2 Elements

3.1.4.9.2.1 SetAttendeeResponse

This **SetAttendeeResponse** element specifies the output of **SetAttendeeResponse** operation.
This element is defined as follows:

```
<s:element name="SetAttendeeResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="attendeeEmail" type="s:string"/>
      <s:element name="recurrenceId" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="uid" type="s:string"/>
      <s:element name="sequence" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="utcDateTimeOrganizerCriticalChange" type="s:dateTime" minOccurs="0"/>
      <s:element name="utcDateTimeAttendeeCriticalChange" type="s:dateTime" minOccurs="0"/>
      <s:element name="response" type="tns:AttendeeResponse" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

attendeeEmail: The e-mail address of the responding attendee.

recurrenceId: The instance of a recurring meeting associated with the response. For single instance meetings, this MUST be set to zero.

uid: The UID specifying the meeting associated with the response.

sequence: The sequence number of a meeting instance associated with the response. The default value is zero.

utcDateTimeOrganizerCriticalChange: The time stamp at which the attendee responded to the meeting, translated to the time zone of the meeting organizer.<1>

utcDateTimeAttendeeCriticalChange: The time stamp that contains the time at which the attendee responded to the meeting, translated to the time zone of the attendee.

response: Attendee acceptance or rejection of the meeting invitation. The default value is "responseAccepted".

3.1.4.9.2.2 SetAttendeeResponseResponse

This element contains nothing other than standard SOAP faults if an error occurs. This element is defined as follows:

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

3.1.4.9.3 Simple Types

3.1.4.9.3.1 AttendeeResponse

This element specifies the input parameters for the **SetAttendeeResponse** operation. This element is defined as follows:

```
<s:simpleType name="AttendeeResponse">
  <s:restriction base="s:string">
    <s:enumeration value="responseAccepted"/>
    <s:enumeration value="responseTentative"/>
    <s:enumeration value="responseDeclined"/>
  </s:restriction>
</s:simpleType>
```

The following table specifies possible values for the **enumeration** attribute.

Value	Meaning
responseAccepted	The attendee has accepted the meeting invitation.
responseTentative	The attendee has tentatively accepted the meeting invitation.
responseDeclined	The attendee has declined the meeting invitation.

3.1.4.10 SetWorkspaceTitle

This operation specifies a user-friendly name for a workspace. This operation is defined as follows:

```
<wsdl:operation name="SetWorkspaceTitle">
    <wsdl:input message="SetWorkspaceTitleSoapIn" />
    <wsdl:output message="SetWorkspaceTitleSoapOut" />
</wsdl:operation>
```

The protocol client sends a **SetWorkspaceTitleSoapIn** request message, and the protocol server responds with a **SetWorkspaceTitleSoapOut** response message.

When a meeting workspace contains a single meeting instance, the meeting workspace title is the subject of the meeting instance. If the meeting organizer changes the subject of a meeting instance and that instance is connected with a meeting workspace, the protocol client uses this operation to update the workspace title.

3.1.4.10.1   Messages

3.1.4.10.1.1   SetWorkspaceTitleSoapIn

This message requests the **SetWorkspaceTitle** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/SetWorkspaceTitle
```

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

3.1.4.10.1.2   SetWorkspaceTitleSoapOut

This message is the response to the **SetWorkspaceTitle** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/SetWorkspaceTitle
```

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

3.1.4.10.2   Elements

3.1.4.10.2.1   SetWorkspaceTitle

The **SetWorkspaceTitle** element specifies the input parameters associated with the **SetWorkspaceTitle** operation. This element is defined as follows:

```
<s:element name="SetWorkspaceTitle">
  <s:complexType>
    <s:sequence>
      <s:element name="title" type="s:string" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

title: The new title of the meeting workspace. This string has a maximum length of 255 characters; all characters after that number are truncated. If this parameter is absent, the new title is the empty string.

3.1.4.10.2.2   SetWorkspaceTitleResponse

The **SetWorkspaceTitleResponse** element specifies the output of **SetWorkspaceTitle** operation. This element is defined as follows:

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

If this operation is sent to a Web site that is not a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000006".

3.1.4.11 UpdateMeeting

This operation updates the content of a meeting in a workspace. This operation is defined as follows:

```
<wsdl:operation name="UpdateMeeting">
    <wsdl:input message="UpdateMeetingSoapIn" />
    <wsdl:output message="UpdateMeetingSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateMeetingSoapIn** request message, and the protocol server responds with an **UpdateMeetingSoapOut** response message.

This operation MUST be used when updating meetings that are not based on the Gregorian calendar, because the **iCalendar** format as used in **UpdateMeetingFromICal** does not support non-Gregorian recurring meetings. The implementer SHOULD use **UpdateMeetingFromICal** in all other instances.

3.1.4.11.1 Messages

3.1.4.11.1.1 UpdateMeetingSoapIn

This message requests the **UpdateMeeting** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeeting
```

The SOAP body contains an **UpdateMeeting** element.

3.1.4.11.1.2 UpdateMeetingSoapOut

This message contains the response to the **UpdateMeeting** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeeting
```

The SOAP body contains an **UpdateMeetingResponse** element.

3.1.4.11.2 Elements

3.1.4.11.2.1 UpdateMeeting

The **UpdateMeeting** element specifies the input parameters for the **UpdateMeeting** operation. This element is defined as follows:

```
<s:element name="UpdateMeeting">
  <s:complexType>
    <s:sequence>
      <s:element name="uid" type="s:string"/>
      <s:element name="sequence" type="s:unsignedInt" minOccurs="0"/>
      <s:element name="utcDateStamp" type="s:dateTime" minOccurs="0"/>
      <s:element name="title" type="s:string" minOccurs="0"/>
      <s:element name="location" type="s:string" minOccurs="0"/>
      <s:element name="utcDateStart" type="s:dateTime"/>
      <s:element name="utcDateEnd" type="s:dateTime"/>
      <s:element name="nonGregorian" type="s:boolean" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

uid: Specifies the meeting to update.

sequence: The updated sequence number of this meeting. The default value is zero.

utcDateStamp: The time at which the meeting is updated.

title: The updated subject of this meeting. This string has a maximum length of 255 characters.

location: The updated physical or virtual location in which this meeting is to take place. This string has a maximum length of 255 characters.

utcDateStart: The updated start time of this meeting.

utcDateEnd: The updated end time of this meeting. This time MUST be greater than or equal to **utcDateStart**.

nonGregorian: Specifies whether the updated meeting is not in the Gregorian calendar. The default value is FALSE.

3.1.4.11.2.2 UpdateMeetingResponse

This element specifies the output of **UpdateMeeting** operation. This element is defined as follows:

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

If this operation is sent to a Web site that is not a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000006".

3.1.4.12 UpdateMeetingFromICal

This operation updates content of a meeting in a workspace, based on a calendar object. This operation is defined as follows:

```
<wsdl:operation name="UpdateMeetingFromICal">
    <wsdl:input message="UpdateMeetingFromICalSoapIn" />
    <wsdl:output message="UpdateMeetingFromICalSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateMeetingFromICalSoapIn** request message, and the protocol server responds with an **UpdateMeetingFromICalSoapOut** response message.

This operation is used to update meetings. The **UpdateMeeting** operation MUST be used when adding meetings that are not based on the Gregorian calendar because the **iCalendar** format as used by this operation does not support non-Gregorian recurring meetings.

3.1.4.12.1 Messages

3.1.4.12.1.1 UpdateMeetingFromICalSoapIn

This message requests the **UpdateMeetingFromICal** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeetingFromICal
```

The SOAP body contains an **UpdateMeetingFromICal** element.

3.1.4.12.1.2 UpdateMeetingFromICalSoapOut

This message contains the response to the **UpdateMeetingFromICal** operation.

The SOAP action value of the message is defined as follows:

```
http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeetingFromICal
```

The SOAP body contains an **UpdateMeetingFromICalResponse** element.

3.1.4.12.2 Elements

3.1.4.12.2.1 UpdateMeetingFromICal

The **UpdateMeetingFromICal** element specifies the input parameters associated with the **UpdateMeetingFromICal** operation. This element is defined as follows:

```
<s:element name="UpdateMeetingFromICal">
  <s:complexType>
    <s:sequence>
      <s:element name="icalText" type="s:string" minOccurs="0"/>
      <s:element name="ignoreAttendees" type="s:boolean" minOccurs="0"/>
    </s:sequence>
  </s:complexType>
```

```
      </s:element>
```

icalText: Updated information about the meeting instance. This MUST be a valid **iCalendar** object as specified in [RFC2445]. If this parameter is an empty string, the response MUST be a SOAP fault with SOAP fault code "0x00000005". The total number of ATTENDEE elements in this parameter MUST be less than or equal to 254. If this parameter contains more than 254 ATTENDEE tags, the response MUST be a SOAP fault with SOAP fault code "0x00000013".

ignoreAttendees: Specifies whether this is a scheduling-only update or whether it affects attendees. The protocol client SHOULD<2> NOT set this value to FALSE unless the protocol client address book is missing or has only partial details.

3.1.4.12.2.2   UpdateMeetingFromICalResponse

The **UpdateMeetingFromICalResponse** element specifies the output of the **UpdateMeetingFromICal** operation. This element is defined as follows:

```
<s:element name="UpdateMeetingFromICalResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="UpdateMeetingFromICalResult" minOccurs="0">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="UpdateMeetingFromICal">
              <s:complexType>
                <s:sequence>
                  <s:element name="AttendeeUpdateStatus" type="tns:AttendeeUpdateStatus"/>
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

UpdateMeetingFromICalResult: The response XML consists of one element that contains information used to update a meeting instance. If the operation is not successful, this represents a SOAP fault. If the **icalText** value is empty or is not valid, the protocol server returns a SOAP fault with SOAP fault code "0x00000005".

If this operation is sent to a Web site that is not a meeting workspace, the response MUST be a SOAP fault with SOAP fault code "0x00000006".

3.1.5   Timer Events

None.

3.1.6   Other Local Events

None.

4 Protocol Examples

When a meeting organizer on the protocol client creates a new meeting instance, the meeting organizer can add the new meeting instance to a new or existing meeting workspace.

If the meeting organizer indicates that a new meeting instance in a workspace is required and the meeting instance is required to be in an existing meeting workspace, the protocol client uses **GetMeetingWorkspaces** to obtain a list of existing meeting workspaces from the protocol server. To display information about an existing workspace, such as the language in which the data is to be displayed, the protocol client uses **GetMeetingsInformation**. The list of workspaces is displayed to the meeting organizer for selection. If the meeting organizer wants to create a new workspace, the protocol client uses **CreateWorkspace**.

If the meeting organizer cancels the workspace creation process and the workspace has already been created when the process is cancelled, the protocol client calls **DeleteWorkspace** to delete the newly created workspace. If the meeting organizer changes the subject in the meeting request before the meeting request is e-mailed to all the attendees for the first time, the protocol client uses **SetWorkspaceTitle** to rename the meeting workspace.

Once a workspace is available, whether an existing workspace or a newly created one, the protocol client uses **AddMeetingFromICal** to add the new meeting instance to the meeting workspace. If the meeting instance is a recurring meeting that does not use the Gregorian calendar, the protocol client uses **AddMeeting** instead. At this point, the meeting request is e-mailed to all attendees.

Each attendee receives the meeting request e-mail. When the attendee replies to the meeting request indicating acceptance or rejection of the invitation or indicating an update to a previous response, the protocol client uses **SetAttendeeResponse** to update the meeting workspace with attendance status.

If the meeting organizer later updates the meeting information, such as its time or location, the protocol client uses **UpdateMeetingFromICal** to update the meeting workspace information. If the meeting instance is a recurring meeting that does not use the Gregorian calendar, the protocol client uses **UpdateMeeting** instead.

When updating an existing meeting instance, the meeting organizer can disconnect that meeting from its meeting workspace, in which case the protocol client uses **RemoveMeeting** to delete that meeting instance from the workspace. The meeting organizer can perform the removal while the meeting request is open, which implies that the updated meeting request might be closed without being saved. If that happens, the protocol client uses **RestoreMeeting** to have the protocol server revert that meeting instance to its last persisted state.

4.1 Create a New Meeting Workspace and Manage Meetings

This scenario demonstrates how to create a new meeting workspace and manage a meeting within the new workspace.

4.1.1 Find Existing Meeting Workspaces

In this example, a meeting organizer wants to find existing meeting workspace subsites within a **parent site**. The meeting organizer specifically wants to find those workspaces that do not contain meetings and those that are single instance workspaces. The protocol client sends the following request message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
```

```
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
      <GetMeetingWorkspaces xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
        <recurring>0</recurring>
      </GetMeetingWorkspaces>
    </soap:Body>
  </soap:Envelope>
```

The protocol server returns the status value "Success" in the following response message that contains information regarding the existing meeting workspaces:

```
<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>
     <GetMeetingWorkspacesResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
       <GetMeetingWorkspacesResult>
         <MeetingWorkspaces>
           <Workspace Url="http://www.example.com/Meeting Workspace 1" Title="Meeting
Workspace 1" />
           <Workspace Url="http://www.example.com/Meeting Workspace 2" Title="Meeting
Workspace 2" />
         </MeetingWorkspaces>
       </GetMeetingWorkspacesResult>
     </GetMeetingWorkspacesResponse>
   </soap:Body>
</soap:Envelope>
```

4.1.2 Query for Meeting Workspace Site Templates

The meeting organizer decides that they do not want to use an existing meeting workspace, but rather they want to create a new meeting workspace. The organizer wants to have a meeting workspace that manages the agenda and attendees for a single meeting. The protocol client sends the following request message to find the appropriate site template to use to create the meeting workspace:

```
<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>
     <GetMeetingsInformation xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
       <requestFlags>4</requestFlags>
       <lcid>1033</lcid>
     </GetMeetingsInformation>
   </soap:Body>
</soap:Envelope>
```

The protocol server returns the status value "Success" in the following response message:

```
<soap:Envelope
```

```
      xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
   <soap:Body>
      <GetMeetingsInformationResponse
  xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
        <GetMeetingsInformationResult>
          <MeetingsInformation>
            <ListTemplates>
              <Template
                Name="MPS#0"
                Title="Basic Meeting Workspace"
                Id="2"
                Description="A site to plan, organize, and capture the results of a meeting. It
  provides lists for managing the agenda, meeting attendees, and documents."
                ImageUrl="http://www.example.com/_layouts/images/stmw.png" />
              <Template
                Name="MPS#1"
                Title="Blank Meeting Workspace" Id="2" Description="A blank meeting site to
  customize based on your requirements."
                ImageUrl="http://www.example.com/_layouts/images/stbm.png" />
              <Template
                Name="MPS#2"
                Title="Decision Meeting Workspace"
                Id="2"
                Description="A site for meetings that track status or make decisions. It
  provides lists for creating tasks, storing documents, and recording decisions."
                ImageUrl="http://www.example.com/_layouts/images/stdm.png" />
              <Template
                Name="MPS#3"
                Title="Social Meeting Workspace"
                Id="2"
                Description="A site to plan social occasions. It provides lists for tracking
  attendees, providing directions, and storing pictures of the event."
                ImageUrl="http://www.example.com/_layouts/images/stsm.png" />
              <Template
                Name="MPS#4"
                Title="Multipage Meeting Workspace"
                Id="2"
                Description="A site to plan, organize, and capture the results of a meeting. It
  provides lists for managing the agenda and meeting attendees in addition to two blank pages
  to customize based on requirements."
                ImageUrl="http://www.example.com/_layouts/images/stmm.png" />
            </ListTemplates>
          </MeetingsInformation>
        </GetMeetingsInformationResult>
      </GetMeetingsInformationResponse>
   </soap:Body>
</soap:Envelope>
```

4.1.3   Create a New Meeting Workspace

The meeting organizer determines that the MPS#0 site template is the appropriate one to use when creating the new meeting workspace. The protocol client sends the following request message to create a new meeting workspace using the MPS#0 site template:

```
<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>
      <CreateWorkspace xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
        <title>Meeting Workspace 3</title>
        <templateName>MPS#0</templateName>
        <lcid>1033</lcid>
        <timeZoneInformation>
          <daylightDate>
            <year>2010</year>
            <month>3</month>
            <dayOfWeek>0</dayOfWeek>
            <day>14</day>
            <hour>2</hour>
            <minute>0</minute>
            <second>0</second>
            <milliseconds>0</milliseconds>
          </daylightDate>
        </timeZoneInformation>
      </CreateWorkspace>
    </soap:Body>
  </soap:Envelope>
```

The protocol server creates the new meeting workspace and returns the status value "Success" in the following response message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateWorkspaceResponse xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <CreateWorkspaceResult>
        <CreateWorkspace Url="http://www.example.com/Meeting Workspace 3" />
      </CreateWorkspaceResult>
    </CreateWorkspaceResponse>
  </soap:Body>
</soap:Envelope>
```

4.1.4   Add a New Meeting

The meeting organizer wants to add a meeting to the workspace. The protocol client sends the following request message to create the meeting in the new workspace:

```
<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>
    <AddMeeting xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <organizerEmail>someone@example.com</organizerEmail>
      <uid>A7E83F54-10DA-4dae-B548-4C9EA6129503</uid>
      <sequence>0</sequence>
      <utcDateStamp>2010-04-12T01:00:00Z</utcDateStamp>
      <title>The Title</title>
      <location>The Location</location>
```

```
            <utcDateStart>2010-04-15T01:00:00Z</utcDateStart>
            <utcDateEnd>2010-04-15T02:00:00Z</utcDateEnd>
            <nonGregorian>false</nonGregorian>
          </AddMeeting>
        </soap:Body>
      </soap:Envelope>
```

The protocol server creates the new meeting in the workspace and returns the status value
"Success" in the following response message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <AddMeetingResponse xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <AddMeetingResult>
        <AddMeeting
          Url="http://www.example.com/Meeting Workspace 1?InstanceID=1"
          HostTitle="site1"
          UniquePermissions="true"
          MeetingCount="1"
          AnonymousAccess="false"
          AllowAuthenticatedUsers="false" />
      </AddMeetingResult>
    </AddMeetingResponse>
  </soap:Body>
</soap:Envelope>
```

4.1.5   Update the Meeting

The meeting organizer discovers that the time, location, and title of the meeting needs to be
changed. To do this, the protocol client sends the following request message to update the meeting:

```
<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>
    <UpdateMeeting xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <uid>A7E83F54-10DA-4dae-B548-4C9EA6129503</uid>
      <sequence>0</sequence>
      <title>New Title</title>
      <location>New Location</location>
      <utcDateStamp>2010-04-12T08:00:00Z</utcDateStamp>
      <utcDateStart>2010-04-15T04:00:00Z</utcDateStart>
      <utcDateEnd>2010-04-15T05:00:00Z</utcDateEnd>
      <nonGregorian>false</nonGregorian>
    </UpdateMeeting>
  </soap:Body>
</soap:Envelope>
```

The protocol server updates the existing meeting and returns the status value "Success" in the
following response message:

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

4.1.6 Respond to the Meeting

The meeting organizer wants to acknowledge that they have accepted the meeting and plan to attend it. To accept the meeting, the protocol client sends the following request message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetAttendeeResponse xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <attendeeEmail>someone@example.com</attendeeEmail>
      <recurrenceId>0</recurrenceId>
      <uid>A7E83F54-10DA-4dae-B548-4C9EA6129503</uid>
      <sequence>0</sequence>
      <utcDateTimeOrganizerCriticalChange>2010-03-
15T01:05:00Z</utcDateTimeOrganizerCriticalChange>
      <utcDateTimeAttendeeCriticalChange>2010-03-
15T01:05:00Z</utcDateTimeAttendeeCriticalChange>
      <response>responseAccepted</response>
    </SetAttendeeResponse>
  </soap:Body>
</soap:Envelope>
```

The protocol server accepts the meeting on behalf of the organizer and returns the status value "Success" in the following response 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>
    <SetAttendeeResponseResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/" />
  </soap:Body>
</soap:Envelope>
```

4.1.7 Remove the Meeting

The meeting organizer discovers that the meeting created is no longer needed and that it needs to be canceled. To cancel the meeting, the protocol client sends the following request message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
```

```
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RemoveMeeting xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <recurrenceId>0</recurrenceId>
      <uid>A7E83F54-10DA-4dae-B548-4C9EA6129503</uid>
      <sequence>0</sequence>
      <utcDateStamp>2010-04-12T10:00:00Z</utcDateStamp>
      <cancelMeeting>false</cancelMeeting>
    </RemoveMeeting>
  </soap:Body>
</soap:Envelope>
```

The protocol server cancels the existing meeting and returns the status value "Success" in the following response message:

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

4.1.8   Restore the Meeting

The meeting organizer decides that the meeting just canceled needs to be scheduled again. To restore the meeting, the protocol client sends the following request message:

```
<soap:Envelope
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RestoreMeeting xmlns="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <uid>A7E83F54-10DA-4dae-B548-4C9EA6129503</uid>
    </RestoreMeeting>
  </soap:Body>
</soap:Envelope>
```

The protocol server restores the meeting and returns the status value "Success" in the following response message:

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

5 Security

5.1 Security Considerations for Implementers

A protocol client can only receive information regarding workspaces to which the authenticated user has access and which is permissible for the level of authorization on the meeting workspace or workspace parent. This issue affects the **GetMeetingWorkspaces** and **GetMeetingsInformation** operations.

5.2 Index of Security Parameters

The following table lists sections that describe the security parameters that are appropriate for this protocol.

Security parameter	Section
Transport authentication	**Transport** (section 2.1)

6   Appendix A: Full WSDL

For ease of implementation the full WSDL is provided here as follows:

```
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
                   xmlns:tns="http://schemas.microsoft.com/sharepoint/soap/meetings/"
                   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://schemas.microsoft.com/sharepoint/soap/meetings/"
                   xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/meetings/">
      <s:import namespace="http://www.w3.org/2001/XMLSchema" />
      <s:simpleType name="CaseInsensitiveTrueFalse">
        <s:restriction base="s:string">
          <s:pattern value="[Tt][Rr][Uu][Ee]|[Ff][Aa][Ll][Ss][Ee]"/>
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="CaseInsensitiveTrueFalseOrEmpty">
        <s:restriction base="s:string">
          <s:pattern value="([Tt][Rr][Uu][Ee]|[Ff][Aa][Ll][Ss][Ee])?"/>
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="UnsignedIntOrEmpty">
        <s:union memberTypes="s:unsignedInt tns:Empty"/>
      </s:simpleType>
      <s:simpleType name="Empty">
        <s:restriction base="s:string">
          <s:maxLength value="0"/>
        </s:restriction>
      </s:simpleType>
      <s:element name="CreateWorkspace">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="title" type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="templateName" type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="lcid" type="s:unsignedInt" />
            <s:element minOccurs="0" maxOccurs="1" name="timeZoneInformation"
type="tns:TimeZoneInf" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:complexType name="TimeZoneInf">
        <s:sequence>
          <s:element minOccurs="1" maxOccurs="1" name="bias" type="s:int" />
          <s:element minOccurs="1" maxOccurs="1" name="standardDate" type="tns:SysTime" />
          <s:element minOccurs="1" maxOccurs="1" name="standardBias" type="s:int" />
          <s:element minOccurs="1" maxOccurs="1" name="daylightDate" type="tns:SysTime" />
          <s:element minOccurs="1" maxOccurs="1" name="daylightBias" type="s:int" />
        </s:sequence>
      </s:complexType>
      <s:complexType name="SysTime">
        <s:sequence>
          <s:element minOccurs="1" maxOccurs="1" name="year" type="s:unsignedShort" />
          <s:element minOccurs="1" maxOccurs="1" name="month" type="s:unsignedShort" />
```

```xml
                <s:element minOccurs="1" maxOccurs="1" name="dayOfWeek" type="s:unsignedShort" />
                <s:element minOccurs="1" maxOccurs="1" name="day" type="s:unsignedShort" />
                <s:element minOccurs="1" maxOccurs="1" name="hour" type="s:unsignedShort" />
                <s:element minOccurs="1" maxOccurs="1" name="minute" type="s:unsignedShort" />
                <s:element minOccurs="1" maxOccurs="1" name="second" type="s:unsignedShort" />
                <s:element minOccurs="1" maxOccurs="1" name="milliseconds" type="s:unsignedShort"
    />
            </s:sequence>
          </s:complexType>
          <s:element name="CreateWorkspaceResponse">
            <s:complexType>
              <s:sequence>
                <s:element name="CreateWorkspaceResult" minOccurs="0">
                  <s:complexType mixed="true">
                    <s:sequence>
                      <s:element name="CreateWorkspace"
                        type="tns:CreateWorkspace" />
                    </s:sequence>
                  </s:complexType>
                </s:element>
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:complexType name="CreateWorkspace">
            <s:attribute name="Url" type="s:string" />
          </s:complexType>
          <s:element name="DeleteWorkspace">
            <s:complexType />
          </s:element>
          <s:element name="DeleteWorkspaceResponse">
            <s:complexType />
          </s:element>
          <s:element name="GetMeetingWorkspaces">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="0" maxOccurs="1" name="recurring" type="s:boolean" />
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:element name="GetMeetingWorkspacesResponse">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="0" maxOccurs="1" name="GetMeetingWorkspacesResult">
                  <s:complexType mixed="true">
                    <s:sequence>
                      <s:element name="MeetingWorkspaces" minOccurs="0">
                        <s:complexType>
                          <s:sequence>
                            <s:element minOccurs="0" maxOccurs="unbounded" name="Workspace"
    type="tns:Workspace" />
                          </s:sequence>
                        </s:complexType>
                      </s:element>
                    </s:sequence>
                  </s:complexType>
                </s:element>
              </s:sequence>
            </s:complexType>
          </s:element>
```

```xml
<s:complexType name="Workspace">
  <s:attribute name="Url" type="s:string" />
  <s:attribute name="Title" type="s:string" />
</s:complexType>
<s:element name="SetWorkspaceTitle">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="title" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="SetWorkspaceTitleResponse">
  <s:complexType />
</s:element>
<s:element name="AddMeetingFromICal">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="organizerEmail" type="s:string" />
      <s:element minOccurs="1" maxOccurs="1" name="icalText" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="AddMeetingFromICalResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="AddMeetingFromICalResult">
        <s:complexType mixed="true">
          <s:sequence>
            <s:element name="AddMeetingFromICal" type="tns:AddMeetingFromICal" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:complexType name="AddMeetingFromICal">
  <s:complexContent>
    <s:extension base="tns:AddMeeting">
      <s:sequence>
        <s:element name="AttendeeUpdateStatus" type="tns:AttendeeUpdateStatus" />
      </s:sequence>
    </s:extension>
  </s:complexContent>
</s:complexType>
<s:complexType name="AddMeeting">
  <s:attribute name="Url" type="s:string" />
  <s:attribute name="HostTitle" type="s:string" />
  <s:attribute name="UniquePermissions" type="s:boolean" />
  <s:attribute name="MeetingCount" type="s:int" />
  <s:attribute name="AnonymousAccess" type="s:boolean" />
  <s:attribute name="AllowAuthenticatedUsers" type="s:boolean" />
</s:complexType>
<s:complexType name="AttendeeUpdateStatus">
  <s:attribute name="Code" type="s:int" />
  <s:attribute name="Detail" type="s:string" />
  <s:attribute name="ManageUserPage" type="s:string" />
</s:complexType>
<s:element name="AddMeeting">
  <s:complexType>
```

```
            <s:sequence>
              <s:element minOccurs="0" maxOccurs="1" name="organizerEmail" type="s:string" />
              <s:element minOccurs="1" maxOccurs="1" name="uid" type="s:string" />
              <s:element minOccurs="0" maxOccurs="1" name="sequence" type="s:unsignedInt" />
              <s:element minOccurs="0" maxOccurs="1" name="utcDateStamp" type="s:dateTime" />
              <s:element minOccurs="0" maxOccurs="1" name="title" type="s:string" />
              <s:element minOccurs="0" maxOccurs="1" name="location" type="s:string" />
              <s:element minOccurs="1" maxOccurs="1" name="utcDateStart" type="s:dateTime" />
              <s:element minOccurs="1" maxOccurs="1" name="utcDateEnd" type="s:dateTime" />
              <s:element minOccurs="0" maxOccurs="1" name="nonGregorian" type="s:boolean" />
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="AddMeetingResponse">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="0" maxOccurs="1" name="AddMeetingResult">
                <s:complexType mixed="true">
                  <s:sequence>
                    <s:element name="AddMeeting" type="tns:AddMeeting" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="UpdateMeetingFromICal">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="0" maxOccurs="1" name="icalText" type="s:string" />
              <s:element minOccurs="0" maxOccurs="1" name="ignoreAttendees" type="s:boolean" />
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="UpdateMeetingFromICalResponse">
          <s:complexType>
            <s:sequence>
              <s:element name="UpdateMeetingFromICalResult" minOccurs="0">
                <s:complexType mixed="true">
                  <s:sequence>
                    <s:element name="UpdateMeetingFromICal">
                      <s:complexType>
                        <s:sequence>
                          <s:element name="AttendeeUpdateStatus"
  type="tns:AttendeeUpdateStatus"/>
                        </s:sequence>
                      </s:complexType>
                    </s:element>
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="UpdateMeeting">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="1" maxOccurs="1" name="uid" type="s:string" />
              <s:element minOccurs="0" maxOccurs="1" name="sequence" type="s:unsignedInt" />
```

```
                <s:element minOccurs="0" maxOccurs="1" name="utcDateStamp" type="s:dateTime" />
                <s:element minOccurs="0" maxOccurs="1" name="title" type="s:string" />
                <s:element minOccurs="0" maxOccurs="1" name="location" type="s:string" />
                <s:element minOccurs="1" maxOccurs="1" name="utcDateStart" type="s:dateTime" />
                <s:element minOccurs="1" maxOccurs="1" name="utcDateEnd" type="s:dateTime" />
                <s:element minOccurs="0" maxOccurs="1" name="nonGregorian" type="s:boolean" />
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:element name="UpdateMeetingResponse">
            <s:complexType />
          </s:element>
          <s:element name="RemoveMeeting">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="0" maxOccurs="1" name="recurrenceId" type="s:unsignedInt"
  />
                <s:element minOccurs="1" maxOccurs="1" name="uid" type="s:string" />
                <s:element minOccurs="0" maxOccurs="1" name="sequence" type="s:unsignedInt" />
                <s:element minOccurs="0" maxOccurs="1" name="utcDateStamp" type="s:dateTime" />
                <s:element minOccurs="0" maxOccurs="1" name="cancelMeeting" type="s:boolean" />
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:element name="RemoveMeetingResponse">
            <s:complexType />
          </s:element>
          <s:element name="SetAttendeeResponse">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="1" maxOccurs="1" name="attendeeEmail" type="s:string" />
                <s:element minOccurs="0" maxOccurs="1" name="recurrenceId" type="s:unsignedInt"
  />
                <s:element minOccurs="1" maxOccurs="1" name="uid" type="s:string" />
                <s:element minOccurs="0" maxOccurs="1" name="sequence" type="s:unsignedInt" />
                <s:element minOccurs="0" maxOccurs="1" name="utcDateTimeOrganizerCriticalChange"
  type="s:dateTime" />
                <s:element minOccurs="0" maxOccurs="1" name="utcDateTimeAttendeeCriticalChange"
  type="s:dateTime" />
                <s:element minOccurs="0" maxOccurs="1" name="response"
  type="tns:AttendeeResponse" />
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:simpleType name="AttendeeResponse">
            <s:restriction base="s:string">
              <s:enumeration value="responseAccepted" />
              <s:enumeration value="responseTentative" />
              <s:enumeration value="responseDeclined" />
            </s:restriction>
          </s:simpleType>
          <s:element name="SetAttendeeResponseResponse">
            <s:complexType />
          </s:element>
          <s:element name="GetMeetingsInformation">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="0" maxOccurs="1" name="requestFlags" type="s:unsignedInt"
  />
```

```xml
                <s:element minOccurs="0" maxOccurs="1" name="lcid" type="s:unsignedInt" />
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:element name="GetMeetingsInformationResponse">
            <s:complexType>
              <s:sequence>
                <s:element minOccurs="0" maxOccurs="1" name="GetMeetingsInformationResult">
                  <s:complexType mixed="true">
                    <s:sequence>
                      <s:element name="MeetingsInformation">
                        <s:complexType mixed="true">
                          <s:sequence>
                            <s:element minOccurs="0" maxOccurs="1" name="AllowCreate"
 type="tns:CaseInsensitiveTrueFalse" />
                            <s:element name="ListTemplateLanguages" minOccurs="0">
                              <s:complexType>
                                <s:sequence>
                                  <s:element minOccurs="0" maxOccurs="unbounded" name="LCID"
 type="s:string" />
                                </s:sequence>
                              </s:complexType>
                            </s:element>
                            <s:element name="ListTemplates" minOccurs="0">
                              <s:complexType>
                                <s:sequence>
                                  <s:element minOccurs="0" maxOccurs="unbounded"
 name="Template" type="tns:Template" />
                                </s:sequence>
                              </s:complexType>
                            </s:element>
                            <s:element minOccurs="0" maxOccurs="1" name="WorkspaceStatus"
 type="tns:WorkspaceStatus" />
                          </s:sequence>
                        </s:complexType>
                      </s:element>
                    </s:sequence>
                  </s:complexType>
                </s:element>
              </s:sequence>
            </s:complexType>
          </s:element>
          <s:complexType name="Template">
            <s:attribute name="Name" type="s:string" />
            <s:attribute name="Title" type="s:string" />
            <s:attribute name="Id" type="s:int" />
            <s:attribute name="Description" type="s:string" />
            <s:attribute name="ImageUrl" type="s:string" />
          </s:complexType>
          <s:complexType name="WorkspaceStatus">
            <s:attribute name="UniquePermissions" type="tns:CaseInsensitiveTrueFalseOrEmpty" />
            <s:attribute name="MeetingCount" type="tns:UnsignedIntOrEmpty" />
            <s:attribute name="AnonymousAccess" type="tns:CaseInsensitiveTrueFalseOrEmpty" />
            <s:attribute name="AllowAuthenticatedUsers"
 type="tns:CaseInsensitiveTrueFalseOrEmpty" />
          </s:complexType>
          <s:element name="RestoreMeeting">
            <s:complexType>
              <s:sequence>
```

```
          <s:element minOccurs="1" maxOccurs="1" name="uid" type="s:string" />
        </s:sequence>
      </s:complexType>
    </s:element>
    <s:element name="RestoreMeetingResponse">
      <s:complexType />
    </s:element>
  </s:schema>
</wsdl:types>
<wsdl:message name="CreateWorkspaceSoapIn">
  <wsdl:part name="parameters" element="tns:CreateWorkspace" />
</wsdl:message>
<wsdl:message name="CreateWorkspaceSoapOut">
  <wsdl:part name="parameters" element="tns:CreateWorkspaceResponse" />
</wsdl:message>
<wsdl:message name="DeleteWorkspaceSoapIn">
  <wsdl:part name="parameters" element="tns:DeleteWorkspace" />
</wsdl:message>
<wsdl:message name="DeleteWorkspaceSoapOut">
  <wsdl:part name="parameters" element="tns:DeleteWorkspaceResponse" />
</wsdl:message>
<wsdl:message name="GetMeetingWorkspacesSoapIn">
  <wsdl:part name="parameters" element="tns:GetMeetingWorkspaces" />
</wsdl:message>
<wsdl:message name="GetMeetingWorkspacesSoapOut">
  <wsdl:part name="parameters" element="tns:GetMeetingWorkspacesResponse" />
</wsdl:message>
<wsdl:message name="SetWorkspaceTitleSoapIn">
  <wsdl:part name="parameters" element="tns:SetWorkspaceTitle" />
</wsdl:message>
<wsdl:message name="SetWorkspaceTitleSoapOut">
  <wsdl:part name="parameters" element="tns:SetWorkspaceTitleResponse" />
</wsdl:message>
<wsdl:message name="AddMeetingFromICalSoapIn">
  <wsdl:part name="parameters" element="tns:AddMeetingFromICal" />
</wsdl:message>
<wsdl:message name="AddMeetingFromICalSoapOut">
  <wsdl:part name="parameters" element="tns:AddMeetingFromICalResponse" />
</wsdl:message>
<wsdl:message name="AddMeetingSoapIn">
  <wsdl:part name="parameters" element="tns:AddMeeting" />
</wsdl:message>
<wsdl:message name="AddMeetingSoapOut">
  <wsdl:part name="parameters" element="tns:AddMeetingResponse" />
</wsdl:message>
<wsdl:message name="UpdateMeetingFromICalSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateMeetingFromICal" />
</wsdl:message>
<wsdl:message name="UpdateMeetingFromICalSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateMeetingFromICalResponse" />
</wsdl:message>
<wsdl:message name="UpdateMeetingSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateMeeting" />
</wsdl:message>
<wsdl:message name="UpdateMeetingSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateMeetingResponse" />
</wsdl:message>
<wsdl:message name="RemoveMeetingSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveMeeting" />
```

```
    </wsdl:message>
    <wsdl:message name="RemoveMeetingSoapOut">
      <wsdl:part name="parameters" element="tns:RemoveMeetingResponse" />
    </wsdl:message>
    <wsdl:message name="SetAttendeeResponseSoapIn">
      <wsdl:part name="parameters" element="tns:SetAttendeeResponse" />
    </wsdl:message>
    <wsdl:message name="SetAttendeeResponseSoapOut">
      <wsdl:part name="parameters" element="tns:SetAttendeeResponseResponse" />
    </wsdl:message>
    <wsdl:message name="GetMeetingsInformationSoapIn">
      <wsdl:part name="parameters" element="tns:GetMeetingsInformation" />
    </wsdl:message>
    <wsdl:message name="GetMeetingsInformationSoapOut">
      <wsdl:part name="parameters" element="tns:GetMeetingsInformationResponse" />
    </wsdl:message>
    <wsdl:message name="RestoreMeetingSoapIn">
      <wsdl:part name="parameters" element="tns:RestoreMeeting" />
    </wsdl:message>
    <wsdl:message name="RestoreMeetingSoapOut">
      <wsdl:part name="parameters" element="tns:RestoreMeetingResponse" />
    </wsdl:message>
    <wsdl:portType name="MeetingsSoap">
      <wsdl:operation name="CreateWorkspace">
        <wsdl:input message="tns:CreateWorkspaceSoapIn" />
        <wsdl:output message="tns:CreateWorkspaceSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="DeleteWorkspace">
        <wsdl:input message="tns:DeleteWorkspaceSoapIn" />
        <wsdl:output message="tns:DeleteWorkspaceSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="GetMeetingWorkspaces">
        <wsdl:input message="tns:GetMeetingWorkspacesSoapIn" />
        <wsdl:output message="tns:GetMeetingWorkspacesSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="SetWorkspaceTitle">
        <wsdl:input message="tns:SetWorkspaceTitleSoapIn" />
        <wsdl:output message="tns:SetWorkspaceTitleSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="AddMeetingFromICal">
        <wsdl:input message="tns:AddMeetingFromICalSoapIn" />
        <wsdl:output message="tns:AddMeetingFromICalSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="AddMeeting">
        <wsdl:input message="tns:AddMeetingSoapIn" />
        <wsdl:output message="tns:AddMeetingSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="UpdateMeetingFromICal">
        <wsdl:input message="tns:UpdateMeetingFromICalSoapIn" />
        <wsdl:output message="tns:UpdateMeetingFromICalSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="UpdateMeeting">
        <wsdl:input message="tns:UpdateMeetingSoapIn" />
        <wsdl:output message="tns:UpdateMeetingSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="RemoveMeeting">
        <wsdl:input message="tns:RemoveMeetingSoapIn" />
        <wsdl:output message="tns:RemoveMeetingSoapOut" />
      </wsdl:operation>
```

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      <wsdl:operation name="SetAttendeeResponse">
        <wsdl:input message="tns:SetAttendeeResponseSoapIn" />
        <wsdl:output message="tns:SetAttendeeResponseSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="GetMeetingsInformation">
        <wsdl:input message="tns:GetMeetingsInformationSoapIn" />
        <wsdl:output message="tns:GetMeetingsInformationSoapOut" />
      </wsdl:operation>
      <wsdl:operation name="RestoreMeeting">
        <wsdl:input message="tns:RestoreMeetingSoapIn" />
        <wsdl:output message="tns:RestoreMeetingSoapOut" />
      </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="MeetingsSoap" type="tns:MeetingsSoap">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="CreateWorkspace">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/CreateWorkspace"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DeleteWorkspace">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/DeleteWorkspace"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetMeetingWorkspaces">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingWorkspaces"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetWorkspaceTitle">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/SetWorkspaceTitle"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddMeetingFromICal">
```

```
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeetingFromICal"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddMeeting">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeeting"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateMeetingFromICal">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeetingFromICal"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateMeeting">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeeting"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveMeeting">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/RemoveMeeting"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetAttendeeResponse">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/SetAttendeeResponse"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
```

```
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetMeetingsInformation">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingsInformation"
style="document" />
        <wsdl:input>
          <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="RestoreMeeting">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/RestoreMeeting"
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="MeetingsSoap12" type="tns:MeetingsSoap">
      <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
      <wsdl:operation name="CreateWorkspace">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/CreateWorkspace"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DeleteWorkspace">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/DeleteWorkspace"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetMeetingWorkspaces">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingWorkspaces"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
```

```
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetWorkspaceTitle">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/SetWorkspaceTitle"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="AddMeetingFromICal">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeetingFromICal"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="AddMeeting">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/AddMeeting"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="UpdateMeetingFromICal">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeetingFromICal"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="UpdateMeeting">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/UpdateMeeting"
style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="RemoveMeeting">
```

```
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/RemoveMeeting"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetAttendeeResponse">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/SetAttendeeResponse"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetMeetingsInformation">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/GetMeetingsInformation"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RestoreMeeting">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/meetings/RestoreMeeting"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>
```

7   Appendix B: Product Behavior

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

- Microsoft® Office 2003

- The 2007 Microsoft® Office system

- Microsoft® Office 2010 suites

- Microsoft® SharePoint® Foundation 2010

- Windows® SharePoint® Services 2.0

- Windows® SharePoint® Services 3.0

- Microsoft® SharePoint® Foundation 15 Technical Preview

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

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

<1> Section 3.1.4.9.2.1: The Windows SharePoint Services 3.0 implementation of the protocol server ignores the **utcDateTimeOrganizerCriticalChange** element and uses only **utcDateTimeAttendeeCriticalChange**.

<2> Section 3.1.4.12.2.1: In the 2007 Office system client implementation, this value is set to **true** when the address book is missing or has only partial details. ATTENDEE tags in **iCalendar** objects as specified in [RFC2445] cannot be generated if the attendee(s)' e-mail addresses cannot be determined.

8 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

9 Index