

[MS-OXWOOF]: Out of Office (OOF) Web Service Protocol

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Revision Summary

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06/27/2008	1.0	Major	Initial Release.
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Date	Revision History	Revision Class	Comments
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Table of Contents

1 Introduction	6
1.1 Glossary	6
1.2 References	7
1.2.1 Normative References	7
1.2.2 Informative References	7
1.3 Overview	7
1.4 Relationship to Other Protocols	8
1.5 Prerequisites/Preconditions	8
1.6 Applicability Statement	8
1.7 Versioning and Capability Negotiation	8
1.8 Vendor-Extensible Fields	9
1.9 Standards Assignments	9
2 Messages	10
2.1 Transport	10
2.2 Common Message Syntax	10
2.2.1 Namespaces	10
2.2.2 Messages	10
2.2.3 Elements	10
2.2.3.1 t:Mailbox Element	11
2.2.4 Complex Types	11
2.2.4.1 t:UserOofSettings Complex Type	11
2.2.5 Simple Types	12
2.2.5.1 t:ExternalAudience Simple Type	12
2.2.5.2 t:OofState Simple Type	13
2.2.6 Attributes	13
2.2.7 Groups	13
2.2.8 Attribute Groups	13
3 Protocol Details	14
3.1 ExchangeServicePortType Server Details	14
3.1.1 Abstract Data Model	14
3.1.2 Timers	14
3.1.3 Initialization	14
3.1.4 Message Processing Events and Sequencing Rules	14
3.1.4.1 GetUserOofSettings Operation	14
3.1.4.1.1 Messages	15
3.1.4.1.1.1 tns:GetUserOofSettingsSoapIn	16
3.1.4.1.1.2 tns:GetUserOofSettingsSoapOut	16
3.1.4.1.2 Elements	17
3.1.4.1.2.1 m:GetUserOofSettingsRequest Element	17
3.1.4.1.2.2 m:GetUserOofSettingsResponse Element	17
3.1.4.1.2.3 t:OofSettings Element	17
3.1.4.1.3 Complex Types	18
3.1.4.1.3.1 tns:GetUserOofSettingsResponse Complex Type	18
3.1.4.1.3.2 tns:GetUserOofSettingsRequest Complex Type	19
3.1.4.2 SetUserOofSettings Operation	19
3.1.4.2.1 Messages	20
3.1.4.2.1.1 tns:SetUserOofSettingsSoapIn	21
3.1.4.2.1.2 tns:SetUserOofSettingsSoapOut	21

3.1.4.2.2	Elements.....	22
3.1.4.2.2.1	m:SetUserOofSettingsRequest Element	22
3.1.4.2.2.2	m:SetUserOofSettingsResponse Element	22
3.1.4.2.2.3	t:UserOofSettings Element	22
3.1.4.2.3	Complex Types	23
3.1.4.2.3.1	tns:SetUserOofSettingsResponse Complex Type	23
3.1.4.2.3.2	tns:SetUserOofSettingsRequest Complex Type	23
3.1.5	Timer Events	24
3.1.6	Other Local Events	24
4	Protocol Examples.....	25
4.1	GetUserOofSettings Request	25
4.2	GetUserOofSettings Response	25
4.3	SetUserOofSettings Request.....	26
4.4	SetUserOofSettings Successful Response	26
4.5	SetUserOofSettings Failure Response	26
5	Security.....	28
5.1	Security Considerations for Implementers.....	28
5.2	Index of Security Parameters	28
6	Appendix A: Full WSDL.....	29
7	Appendix B: Full XML Schema	31
7.1	Messages Schema.....	31
7.2	Types Schema.....	32
8	Appendix C: Product Behavior	34
9	Change Tracking.....	35
10	Index	36

1 Introduction

The Out of Office (OOF) Web Service Protocol defines the interaction between a client and a server for configuring response messages that are sent automatically in response to e-mail messages that are sent to people who are out of the office.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [\[RFC2119\]](#). Sections 1.5 and 1.9 are also normative but does not 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)**
- SOAP**
- SOAP action**
- SOAP body**
- SOAP fault**
- SOAP header**
- SOAP message**
- XML**
- XML namespace**

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

- endpoint**
- external OOF message**
- mailbox**
- OOF message**
- Out of Office (OOF)**
- response message**
- Uniform Resource Locator (URL)**
- web server**
- Web Services Description Language (WSDL)**
- WSDL message**
- WSDL port type**
- XML schema**

The following terms are specific to this document:

external user: Any user who is located outside the enterprise network boundary, including remote users (1), federated users, and public instant messaging (IM) users.

internal users: Users who are within an organization.

OOF settings: A set of values that determine whether an OOF message is sent, to whom it is sent, and the contents of the message.

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

1.2 References

References to Microsoft Open Specification documents 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.

[MS-OXWSCDATA] Microsoft Corporation, "[Common Web Service 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>

[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>

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

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

[XMLSCHEMA2] Biron, P.V., and Malhotra, A., Eds., "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-OXDCLI] Microsoft Corporation, "[Autodiscover Publishing and Lookup Protocol](#)".

[MS-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)".

[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](#)".

[MS-OXWSADISC] Microsoft Corporation, "[Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol](#)".

1.3 Overview

This protocol enables a protocol client to manage the messages that users configure to be sent by the server automatically in response to incoming e-mail when the users are away from the office or otherwise unable to respond immediately. The protocol client can set messages for both internal and

external e-mail correspondents, start and stop sending **OOF messages**, and schedule the messages so that they are enabled for a specific duration.

This protocol defines the interaction between a client and a server that configures **OOF settings** and OOF messages for users. The conditions under which the OOF messages are sent are determined by the OOF settings.

1.4 Relationship to Other Protocols

A client that implements this protocol can use either the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [\[MS-OXWSADISC\]](#), or the Autodiscover Publishing and Lookup Protocol, as described in [\[MS-OXDCLI\]](#), to identify the target **endpoint (4)** to use for each operation.

This protocol uses the SOAP protocol as described in [\[SOAP1.1\]](#) to specify the structure of information exchanged between the client and the server. The protocol uses the XML protocol as described in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#) to describe the message content sent to and from the server.

The OOF Web Service Protocol uses SOAP over **HTTP**, as described in [\[RFC2616\]](#), and SOAP over **HTTPS**, as described in [\[RFC2818\]](#), as shown in the following layering diagram.

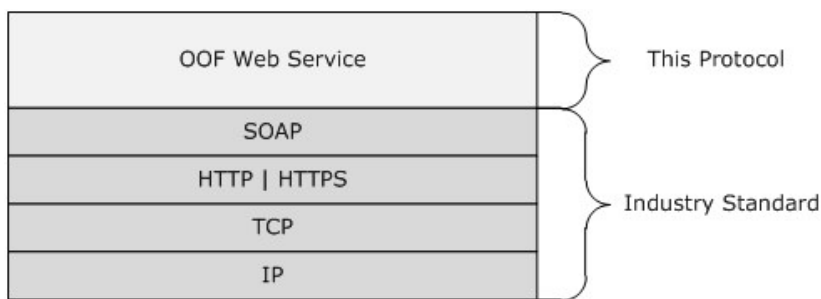


Figure 1: This protocol in relation to other protocols

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [\[MS-OXPROTO\]](#).

1.5 Prerequisites/Preconditions

The endpoint (4) **URL** that is returned by either the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [\[MS-OXWSADISC\]](#), or the Autodiscover Publishing and Lookup Protocol, as described in [\[MS-OXDCLI\]](#), is a required argument for forming the HTTP request to the **web server** that hosts this protocol. The operations that this protocol uses cannot be accessed unless the correct endpoint (4) that services the target **mailbox** is identified for the HTTP Web requests that target the OOF Web Service Protocol operations.

1.6 Applicability Statement

The OOF Web Service Protocol is applicable to SOAP-based clients, as described in [\[SOAP1.1\]](#).

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses SOAP 1.1, as specified in section [2.1](#).

- **Protocol Versions:** This protocol has a single **WSDL port type** version. The version of the server responding to the request is identified by using the **t:ServerVersionInfo** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.3.10.
- **Security and Authentication Methods:** This protocol relies on the web server that hosts it to perform authentication.
- **Localization:** This protocol includes text strings in various messages.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

Messages are transported by using SOAP version 1.1. For details, see [\[SOAP1.1\]](#).

This protocol relies on the web server that hosts the application to perform authentication. The protocol supports **SOAP** over HTTP, as specified in [\[RFC2616\]](#). The protocol SHOULD use secure communications over HTTPS, as specified in [\[RFC2818\]](#).

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema** as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **Web Services Description Language (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 specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/WSDL/soap	[SOAP1.1]
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	
wsdl	http://schemas.xmlsoap.org/WSDL/	[WSDL]
t	http://schemas.microsoft.com/exchange/services/2006/types	
m	http://schemas.microsoft.com/exchange/services/2006/messages	

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

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
t:Mailbox	Identifies a user's mailbox by using an e-mail address.

2.2.3.1 t:Mailbox Element

The **Mailbox** element identifies a user's **mailbox** by using an e-mail address.

```
<xs:element name="Mailbox"
  type="t:EmailAddress"
/>
```

For details about the **t:EmailAddress** complex type, see [\[MS-OXWSCDATA\]](#) section 2.2.4.26.

2.2.4 Complex Types

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

Complex type	Description
t:UserOofSettings	Specifies the OOF settings.

2.2.4.1 t:UserOofSettings Complex Type

The **UserOofSetting** complex type specifies the OOF settings.

```
<xs:complexType name="UserOofSettings">
  <xs:sequence>
    <xs:element name="OofState"
      type="t:OofState"
      minOccurs="1"
      maxOccurs="1"
    />
    <xs:element name="ExternalAudience"
      type="t:ExternalAudience"
      maxOccurs="1"
      minOccurs="1"
    />
    <xs:element name="Duration"
      type="t:Duration"
      minOccurs="0"
      maxOccurs="1"
    />
    <xs:element name="InternalReply"
      type="t:ReplyBody"
      minOccurs="0"
      maxOccurs="1"
    />
    <xs:element name="ExternalReply"
      type="t:ReplyBody"
      minOccurs="0"
      maxOccurs="1"
    />
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **t:UserOofSettings** complex type.

Element	Type	Description
OofState	t:OofState (section 2.2.5.2)	Indicates the user's Out of Office (OOF) status. This element MUST be present.
ExternalAudience	t:ExternalAudience (section 2.2.5.1)	Indicates how external users are handled. This element MUST be present.
Duration	t:Duration ([MS-OXWSCDATA] section 2.2.4.24)	Indicates the duration for which the OOF status is enabled if the OOF state in the OofState element is set to "Scheduled". The start and end times for this period of time SHOULD<1> be specified in Coordinated Universal Time (UTC) . This element can be present. It MUST be present if the OofState element is set to "Scheduled" when calling the SetUserOofSettings operation (section 3.1.4.1).
InternalReply	t:ReplyBody ([MS-OXWSCDATA] section 2.2.4.55)	Contains the body of the response OOF message that is sent to internal users . This element can be present.
ExternalReply	t:ReplyBody	Contains the body of the response OOF message that is sent to external users. This element can be present.

2.2.5 Simple Types

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

Simple type	Description
t:ExternalAudience	Specifies a value that indicates to whom external OOF messages are to be sent.
t:OofState	Specifies the state of the user's mailbox with respect to OOF.

2.2.5.1 t:ExternalAudience Simple Type

The **ExternalAudience** simple type specifies a value that indicates to whom external OOF messages are to be sent.

```
<xs:simpleType name="ExternalAudience">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="None"
    />
    <xs:enumeration
      value="Known"
    />
    <xs:enumeration
      value="All"
    />
  </xs:restriction>
</xs:simpleType>
```

```

    />
  </xs:restriction>
</xs:simpleType>

```

The following table lists the values that are defined by the **ExternalAudience** simple type.

Value	Description
None	Specifies that mail sent from external users will not get an OOF message.
Known	Specifies that mail sent from external users who are known to the recipient will receive an OOF message in response to the mail they sent. A known user is one who appears in the recipient's list of contacts in any of the contacts folders in his or her mailbox.
All	Specifies that the external OOF message will be sent to all external users.

2.2.5.2 t:OofState Simple Type

The **OofState** simple type specifies the state of the user's mailbox with respect to OOF.

```

<xs:simpleType name="OofState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Disabled" />
    <xs:enumeration value="Enabled" />
    <xs:enumeration value="Scheduled" />
  </xs:restriction>
</xs:simpleType>

```

The following table lists the values that are defined by the **OofState** simple type.

Value	Description
Disabled	Specifies that OOF behavior is disabled.
Enabled	Specifies that the OOF state is enabled; this indicates that OOF messages will be sent.
Scheduled	Specifies that the OOF status is set to Enabled for the time period defined by the Duration element.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

This protocol specifies a way of getting OOF settings and configuring them for a mailbox.

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

3.1 ExchangeServicePortType Server Details

This protocol specifies a single port type with two operations to manipulate the OOF settings.

3.1.1 Abstract Data Model

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

This protocol provides operations for sending OOF settings for a mailbox, and for retrieving those settings. The server maintains the OOF settings for the mailbox, modifies them as requested, and uses them to respond to incoming messages appropriately.

The client application is not required to maintain the state of the OOF settings on the server and can request the OOF settings at any time. If more than one client is changing the OOF settings at any one time, there is no requirement that the server lock the existing OOF settings for changes.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of WSDL operations defined by this specification.

Operation	Description
GetUserOofSettings	Gets a user's OOF settings and OOF messages from his or her mailbox.
SetUserOofSettings	Sets a user's OOF settings and OOF messages in his or her mailbox.

3.1.4.1 GetUserOofSettings Operation

The **GetUserOofSettings** operation retrieves the OOF settings and OOF messages from a user's mailbox.

The following is the WSDL port type specification for this operation.

```

<wsdl:operation name="GetUserOofSettings">
  <wsdl:input message="tns:GetUserOofSettingsSoapIn" />
  <wsdl:output message="tns:GetUserOofSettingsSoapOut" />
</wsdl:operation>

```

The following is the WSDL binding specification for this operation. [<2>](#)

```

<wsdl:operation name="GetUserOofSettings">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUserOofSettings"/
>
  <wsdl:input>
    <soap:header message="tns:GetUserOofSettingsSoapIn" part="Impersonation"
use="literal"/>
    <soap:body parts="GetUserOofSettingsRequest" use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="GetUserOofSettingsResult" use="literal"/>
    <soap:header message="tns:GetUserOofSettingsSoapOut" part="ServerVersion"
use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

For a successful request, the **GetUserOofSettings** operation MUST return a **GetUserOofSettingsResponse** element with the **ResponseClass** attribute of the **ResponseMessage** element set to "Success". The **ResponseCode** element of the **ResponseMessage** element MUST be set to "NoError".

If the mailbox that is specified in the request does not belong to the user who is making the request, the server MUST return a **SOAP fault**. The following **XML** specifies the **SOAP body** that MUST be returned.

```

<soap:Body>
  <soap:Fault>
    <faultcode>soap:Client</faultcode>
    <faultstring>Microsoft.Exchange.Data.Storage.AccessDeniedException: User is not mailbox
owner. User = *UserID*, MailboxGuid = *MailboxID* ---> User is not mailbox owner.
</faultstring>
    <faultactor>https://CAS01.example.com/EWS/Exchange.asmx</faultactor>
    <detail>
      <ErrorCode xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">-
2146233088</ErrorCode>
    </detail>
  </soap:Fault>
</soap:Body>

```

The **faultstring** element MUST contain the User ID of the user who is making the request and the Mailbox ID of the mailbox for which the attempt was made to change the OOF message.

3.1.4.1.1 Messages

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

Message	Description
GetUserOofSettingsSoapIn	Specifies the request that retrieves a user's OOF settings.
GetUserOofSettingsSoapOut	Specifies the response from a GetUserOofSettings operation.

3.1.4.1.1.1 tns:GetUserOofSettingsSoapIn

The **GetUserOofSettingsSoapIn** WSDL message specifies the **SOAP message** that represents a request to get the OOF settings for a mailbox.

```
<wsdl:message name="GetUserOofSettingsSoapIn">
  <wsdl:part name="GetUserOofSettingsRequest" element="tns:GetUserOofSettingsRequest"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

The **GetUserOofSettingsSoapIn** WSDL message is the input message for the **SOAP action** <http://schemas.microsoft.com/exchange/services/2006/messages/GetUserOofSettings>.

The following table lists and describes the parts of the **GetUserOofSettingsSoapIn** WSDL message.

Part name	Element/type	Description
GetUserOofSettingsRequest	m:GetUserOofSettingsRequest (section 3.1.4.1.2.1)	Specifies the SOAP body of the request to get the OOF settings for a mailbox.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a SOAP header that identifies the user who the client application is impersonating.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the GetUserOofSettings operation request. <3>

3.1.4.1.1.2 tns:GetUserOofSettingsSoapOut

The **GetUserOofSettingsSoapOut** WSDL message specifies the SOAP message that represents a response to a request to get the OOF settings for a mailbox.

```
<wsdl:message name="GetUserOofSettingsSoapOut">
  <wsdl:part name="GetUserOofSettingsResult" element="tns:GetUserOofSettingsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **GetUserOofSettingsSoapOut** WSDL message is the output message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/GetUserOofSettings>.

The **GetUserOofSettingsSoapOut** WSDL message contains two parts, as described in the following table.

Part name	Element/type	Description
GetUserOofSettingsResult	m:GetUserOofSettingsResponse (section 3.1.4.1.2.2)	Specifies the SOAP body the response to the request for mailbox OOF settings.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.1.2 Elements

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

Element	Description
GetUserOofSettingsRequest	Specifies the root element in a GetUserOofSettings operation request.
GetUserOofSettingsResponse	Specifies the root element in a GetUserOofSettings operation response.
OofSettings	Specifies the OOF settings for a mailbox.

3.1.4.1.2.1 m:GetUserOofSettingsRequest Element

The **GetUserOofSettingsRequest** element specifies the root element in a **GetUserOofSettings** request.

```
<xs:element name="GetUserOofSettingsRequest"
  type="tns:GetUserOofSettingsRequest"
  />
```

3.1.4.1.2.2 m:GetUserOofSettingsResponse Element

The **GetUserOofSettingsResponse** element specifies the root element in a **GetUserOofSettings** operation response.

```
<xs:element name="GetUserOofSettingsResponse"
  type="tns:GetUserOofSettingsResponse"
  />
```

3.1.4.1.2.3 t:OofSettings Element

The **OofSettings** element specifies the OOF settings for a mailbox.

```
<xs:element name="OofSettings"
  type="t:UserOofSettings"
  />
```

3.1.4.1.3 Complex Types

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

Complex type	Description
GetUserOutOfSettingsRequest	Contains the arguments that are used to get a user's OOF settings.
GetUserOutOfSettingsResponse	Contains the response message from the GetUserOutOfSettings operation.

3.1.4.1.3.1 tns:GetUserOutOfSettingsResponse Complex Type

The **GetUserOutOfSettingsResponse** complex type contains the response message from the **GetUserOutOfSettings** operation and the OOF settings for the user, as specified in the **GetUserOutOfSettings** operation request.

```
<xs:complexType name="GetUserOutOfSettingsResponse">
  <xs:sequence>
    <xs:element name="ResponseMessage"
      type="m:ResponseMessageType"
      maxOccurs="1"
      minOccurs="1"
    />
    <xs:element
      maxOccurs="1"
      minOccurs="0"
      ref="t:OofSettings"
    />
    <xs:element name="AllowExternalOof"
      type="t:ExternalAudience"
      maxOccurs="1"
      minOccurs="0"
    />
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **GetUserOutOfSettingsResponse** complex type.

Element	Type	Description
ResponseMessage	m:ResponseMessageType ([MS-OXWSCDATA] section 2.2.4.57)	Provides descriptive information about the response status. This element MUST be present.
t:OofSettings	t:OofSettings (section 3.1.4.1.2.3)	Contains the OOF settings. This element can be present.
AllowExternalOof	t:ExternalAudience (section 2.2.5.1)	Contains a value that identifies the recipients to whom external OOF messages are sent. This element can be present.

3.1.4.1.3.2 tns:GetUserOofSettingsRequest Complex Type

The **GetUserOofSettingsRequest** complex type contains the arguments that are used to get a user's OOF settings. This complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="GetUserOofSettingsRequest">
  <xs:complexContent
    mixed="false"
  >
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element
          maxOccurs="1"
          minOccurs="1"
          ref="t:Mailbox"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table lists the child elements of the **GetUserOofSettingsRequest** complex type.

Element	Type	Description
t:Mailbox	t:Mailbox (section 2.2.3.1)	Specifies the user for whom OOF settings are to be retrieved. This element MUST be present.

The sender **MUST** be the owner of the mailbox specified in the request.

3.1.4.2 SetUserOofSettings Operation

The **SetUserOofSettings** operation specifies how to set a mailbox user's OOF settings and response message.

The following is the WSDL port type specification for this operation.

```
<wsdl:operation name="SetUserOofSettings">
  <wsdl:input message="tns:SetUserOofSettingsSoapIn"/>
  <wsdl:output message="tns:SetUserOofSettingsSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification for this operation. [<4>](#)

```
<wsdl:operation name="SetUserOofSettings">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetUserOofSettings"/
  >
  <wsdl:input>
    <soap:body parts="SetUserOofSettingsRequest" use="literal"/>
    <soap:header message="tns:SetUserOofSettingsSoapOut" part="Impersonation" use="literal"/>
  </wsdl:input>
</wsdl:operation>
```

```

</wsdl:input>
<wsdl:output>
  <soap:body parts="SetUserOofSettingsResult" use="literal"/>
  <soap:header message="tns:SetUserOofSettingsSoapOut" part="ServerVersion" use="literal"/>
</wsdl:output>
</wsdl:operation>

```

For a successful request, the **SetUserOofSettings** operation MUST return a **SetUserOofSettingsResponse** element with the **ResponseClass** attribute of the **ResponseMessage** element set to "Success". The **ResponseCode** element of the **ResponseMessage** element MUST be set to "NoError".

If the request is unsuccessful, the **SetUserOofSettings** operation MUST return a **SetUserOofSettingsResponse** element with the **ResponseClass** attribute of the **ResponseMessage** element set to "Error". The **ResponseCode** element of the **ResponseMessage** element MUST be set to one of the error values listed in the following table.

Error value	Description
ErrorInvalidScheduledOofDuration	Occurs if the specified duration end time is not greater than the start time, or if the end time does not occur in the future, or if the Duration element is not set when the OofState element is set to "Scheduled".
ErrorInvalidUserOofSettings	Occurs when the request is missing an internal or external reply.

If the mailbox that is specified in the request does not belong to the user who is making the request, the server MUST return a SOAP fault. The following XML specifies the SOAP body that MUST be returned in such cases.

```

<soap:Body>
  <soap:Fault>
    <faultcode>soap:Client</faultcode>
    <faultstring>Microsoft.Exchange.Data.Storage.AccessDeniedException: User is not mailbox owner. User = *UserID*, MailboxGuid = *MailboxID* ---> User is not mailbox owner.
  </faultstring>
    <faultactor>https://CAS01.example.com/EWS/Exchange.asmx</faultactor>
    <detail>
      <ErrorCode xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">-
2146233088</ErrorCode>
    </detail>
  </soap:Fault>
</soap:Body>

```

The **faultstring** element MUST contain the User ID of the user who is making the request and the Mailbox ID of the mailbox for which the attempt was made to change the OOF message.

3.1.4.2.1 Messages

The following table summarizes the WSDL message definitions that are specific to the **SetUserOofSettings** operation.

Message	Description
SetUserOofSettingsSoapIn	Specifies the request that sets a user's OOF settings.
SetUserOofSettingsSoapOut	Specifies the response from the SetUserOofSettings operation.

3.1.4.2.1.1 tns:SetUserOofSettingsSoapIn

The **SetUserOofSettingsSoapIn** WSDL message specifies the SOAP message that represents a request to set the OOF settings for a mailbox.

```
<wsdl:message name="SetUserOofSettingsSoapIn">
  <wsdl:part name="SetUserOofSettingsRequest" element="tns:SetUserOofSettingsRequest"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

The **SetUserOofSettingsSoapIn** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/SetUserOofSettings>.

The parts of the **SetUserOofSettingsSoapIn** WSDL message are listed and described in the following table.

Part name	Element/type	Description
SetUserOofSettingsRequest	m:SetUserOofSettingsRequest (section 3.1.4.2.2.1)	Specifies the SOAP body of the request to set OOF settings for a mailbox.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a SOAP header that identifies the user who the client application is impersonating.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the SetUserOofSettings operation request. <5>

3.1.4.2.1.2 tns:SetUserOofSettingsSoapOut

The **SetUserOofSettingsSoapOut** WSDL message specifies the SOAP message that represents the response from a request to set the OOF settings for a mailbox.

```
<wsdl:message name="SetUserOofSettingsSoapOut">
  <wsdl:part name="SetUserOofSettingsResult" element="tns:SetUserOofSettingsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **SetUserOofSettingsSoapOut** WSDL message is the output message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/SetUserOofSettings>.

The parts of the **SetUserOofSettingsSoapOut** WSDL message are listed and described in the following table.

Part name	Element/type	Description
SetUserOofSettingsResult	m:SetUserOofSettingsResponse (section 3.1.4.2.2.2)	Specifies the SOAP body of the response that contains the requested OOF settings.
ServerVersion	t:ServerVersionInfo [MS-OXWSCDATA] section 2.2.3.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.2.2 Elements

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

Element	Description
SetUserOofSettingsRequest	Specifies the base element for a SetUserOofSettings operation request.
SetUserOofSettingsResponse	Specifies the base element for a SetUserOofSettings operation response.
UserOofSettings	Specifies the OOF settings for a mailbox.

3.1.4.2.2.1 m:SetUserOofSettingsRequest Element

The **SetUserOofSettingsRequest** element specifies the base element for a **SetUserOofSettings** operation request.

```
<xs:element name="SetUserOofSettingsRequest"
  type="tns:SetUserOofSettingsRequest"
/>
```

3.1.4.2.2.2 m:SetUserOofSettingsResponse Element

The **SetUserOofSettingsResponse** element specifies the base element for a **SetUserOofSettings** operation response.

```
<xs:element name="SetUserOofSettingsResponse"
  type="tns:SetUserOofSettingsResponse"
/>
```

3.1.4.2.2.3 t:UserOofSettings Element

The **UserOofSettings** element specifies the OOF settings for a mailbox.

```
<xs:element name="UserOofSettings"
  type="t:UserOofSettings"
/>
```

3.1.4.2.3 Complex Types

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

Complex type	Description
SetUserOofSettingsRequest	Specifies the arguments that are used to set a mailbox user's OOF settings.
SetUserOofSettingsResponse	Contains the response message from the SetUserOofSettings operation.

3.1.4.2.3.1 tns:SetUserOofSettingsResponse Complex Type

The **SetUserOofSettingsResponse** complex type specifies the result of a **SetUserOofSettingsRequest** complex type message attempt.

```
<xs:complexType name="SetUserOofSettingsResponse">
  <xs:sequence>
    <xs:element name="ResponseMessage"
      type="m:ResponseMessageType"
      minOccurs="0"
      maxOccurs="1"
    />
  </xs:sequence>
</xs:complexType>
```

The following table lists the child elements of the **SetUserOofSettingsResponse** complex type.

Element	Type	Description
ResponseMessage	m:ResponseMessageType	Provides descriptive information about the response status. This element can be present.

3.1.4.2.3.2 tns:SetUserOofSettingsRequest Complex Type

The **SetUserOofSettingsRequest** complex type specifies the arguments that are used to set a mailbox user's OOF settings. This complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="SetUserOofSettingsRequest">
  <xs:complexContent
    mixed="false"
  >
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element
          maxOccurs="1"
          minOccurs="1"
          ref="t:Mailbox"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    />
    <xs:element
      maxOccurs="1"
      minOccurs="1"
      ref="t:UserOofSettings"
    />
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

The following table lists the child elements of the **SetUserOofSettingsRequest** complex type.

Element	Type	Description
t:Mailbox	t:mailbox (section 2.2.3.1)	Specifies the mailbox user. This element MUST be present.
t:UserOofSettings	t:UserOofSettings (section 2.2.4.1)	Specifies the OOF settings. This element MUST be present.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 GetUserOofSettings Request

The following example shows how to get a specified user's OOF settings.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetUserOofSettingsRequest
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <Mailbox xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <Address>user@example.com</Address>
      </Mailbox>
    </GetUserOofSettingsRequest>
  </soap:Body>
</soap:Envelope>
```

4.2 GetUserOofSettings Response

The following example shows a successful response to a **GetUserOofSettings** operation request.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Header>
    <t:ServerVersionInfo MajorVersion="8" MinorVersion="1" MajorBuildNumber="240"
MinorBuildNumber="5" xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" />
  </soap:Header>
  <soap:Body>
    <GetUserOofSettingsResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseMessage ResponseClass="Success">
        <ResponseCode>NoError</ResponseCode>
      </ResponseMessage>
      <OofSettings xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <OofState>Enabled</OofState>
        <ExternalAudience>All</ExternalAudience>
        <Duration>
          <StartTime>2008-02-01T00:00:00</StartTime>
          <EndTime>2008-02-02T00:00:00</EndTime>
        </Duration>
        <InternalReply>
          <Message>I am out of office. This is my internal reply.</Message>
        </InternalReply>
        <ExternalReply>
          <Message>I am out of office. This is my external reply.</Message>
        </ExternalReply>
      </OofSettings>
      <AllowExternalOof>All</AllowExternalOof>
    </GetUserOofSettingsResponse>
  </soap:Body>
</soap:Envelope>
```

4.3 SetUserOofSettings Request

The following example shows how to set a specified user's OOF settings.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetUserOofSettingsRequest
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <Mailbox xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <Address>ul@example.com</Address>
        <RoutingType>SMTP</RoutingType>
      </Mailbox>
      <UserOofSettings xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <OofState>Enabled</OofState>
        <ExternalAudience>All</ExternalAudience>
        <InternalReply>
          <Message>I am out of office. This is my internal reply.</Message>
        </InternalReply>
        <ExternalReply>
          <Message>I am out of office. This is my external reply.</Message>
        </ExternalReply>
      </UserOofSettings>
    </SetUserOofSettingsRequest>
  </soap:Body>
</soap:Envelope>
```

4.4 SetUserOofSettings Successful Response

The following example shows a successful response to a **SetUserOofSettings** operation request.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Header>
    <t:ServerVersionInfo MajorVersion="8" MinorVersion="1" MajorBuildNumber="240"
MinorBuildNumber="5" xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" />
  </soap:Header>
  <soap:Body>
    <SetUserOofSettingsResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseMessage ResponseClass="Success">
        <ResponseCode>NoError</ResponseCode>
      </ResponseMessage>
    </SetUserOofSettingsResponse>
  </soap:Body>
</soap:Envelope>
```

4.5 SetUserOofSettings Failure Response

The following example shows an unsuccessful response to a **SetUserOofSettings** operation request.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Header>
    <t:ServerVersionInfo MajorVersion="8" MinorVersion="1" MajorBuildNumber="240"
MinorBuildNumber="5" xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" />
  </soap:Header>
  <soap:Body>
    <SetUserOutOfSettingsResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseMessage ResponseClass="Error">
        <MessageText>The scheduled Out of Office duration is not valid.</MessageText>
        <ResponseCode>ErrorInvalidScheduledOutOfDuration</ResponseCode>
        <DescriptiveLinkKey>0</DescriptiveLinkKey>
        <MessageXml>
          <ExceptionType
xmlns="http://schemas.microsoft.com/exchange/services/2006/errors">Microsoft.Exchange.InfoWor
ker.Common.OOF.InvalidScheduledOutOfDuration</ExceptionType>
          <ExceptionCode
xmlns="http://schemas.microsoft.com/exchange/services/2006/errors">158</ExceptionCode>
        </MessageXml>
      </ResponseMessage>
    </SetUserOutOfSettingsResponse>
  </soap:Body>
</soap:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

The XML files that are listed in the following table are required in order to implement the functionality specified in this document. The contents of each file are included in this section.

File name	Description	Section
MS-OXWOOF.wsdl	Contains the WSDL for the implementation of this protocol.	6
MS-OXWOOF-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	7.1
MS-OXWOOF-types.xsd	Contains the XML schema type definitions that are used in this protocol.	7.2

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWOOF-messages.xsd or MS-OXWOOF-types.xsd schemas have to be placed in the common folder with these files.

This section contains the contents of the MS-OXWOOF.wsdl file.

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:s="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <wsdl:types>
    <xs:schema id="messages" elementFormDefault="qualified" version="Exchange2007_SP1"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
      <xs:include schemaLocation="MS-OXWOOF-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="GetUserOofSettingsSoapIn">
    <wsdl:part name="GetUserOofSettingsRequest" element="tns:GetUserOofSettingsRequest"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="GetUserOofSettingsSoapOut">
    <wsdl:part name="GetUserOofSettingsResult" element="tns:GetUserOofSettingsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SetUserOofSettingsSoapIn">
    <wsdl:part name="SetUserOofSettingsRequest" element="tns:SetUserOofSettingsRequest"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="SetUserOofSettingsSoapOut">
    <wsdl:part name="SetUserOofSettingsResult" element="tns:SetUserOofSettingsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="GetUserOofSettings">
      <wsdl:input message="tns:GetUserOofSettingsSoapIn"/>
    </wsdl:operation>
  </wsdl:portType>
</wsdl:definitions>
```

```

        <wsdl:output message="tns:GetUserOofSettingsSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="SetUserOofSettings">
        <wsdl:input message="tns:SetUserOofSettingsSoapIn"/>
        <wsdl:output message="tns:SetUserOofSettingsSoapOut"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
    <wsdl:documentation>
        <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-
i.org/schemas/conformanceClaim/" />
    </wsdl:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
    <wsdl:operation name="GetUserOofSettings">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUserOofSettings"/
>
            <wsdl:input>
                <soap:header message="tns:GetUserOofSettingsSoapIn" part="Impersonation"
use="literal"/>
                <soap:body parts="GetUserOofSettingsRequest" use="literal"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body parts="GetUserOofSettingsResult" use="literal"/>
                <soap:header message="tns:GetUserOofSettingsSoapOut" part="ServerVersion"
use="literal"/>
            </wsdl:output>
        </wsdl:operation>
    <wsdl:operation name="SetUserOofSettings">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetUserOofSettings"/
>
            <wsdl:input>
                <soap:header message="tns:SetUserOofSettingsSoapIn" part="Impersonation"
use="literal"/>
                <soap:body parts="SetUserOofSettingsRequest" use="literal"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body parts="SetUserOofSettingsResult" use="literal"/>
                <soap:header message="tns:SetUserOofSettingsSoapOut" part="ServerVersion"
use="literal"/>
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>
</wsdl:definitions>

```

7 Appendix B: Full XML Schema

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

Schema name	Prefix	Section
Messages schema	m:	7.1
Types schema	t:	7.2

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWOOF-messages.xsd or MS-OXWOOF-types.xsd schemas have to be placed in the common folders along with the files listed in the table.

7.1 Messages Schema

This section contains the contents of the MS-OXWOOF-messages.xsd file and information about additional files that this schema file requires to operate correctly.

MS-OXWOOF-messages.xsd references the files listed in the following table. For this messages schema file to operate correctly, the two referenced files have to be present in the folder that contains the WSDL and messages schema files for this protocol.

File name	Defining specification/section
MS-OXWSCDATA-messages.xsd	[MS-OXWSCDATA] section 7.2
MS-OXWOOF-types.xsd	7.2

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
  elementFormDefault="qualified" version="Exchange2013" id="messages">
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
    schemaLocation="MS-OXWOOF-types.xsd"/>
  <xs:complexType name="GetUserOofSettingsRequest">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" ref="t:Mailbox"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetUserOofSettingsRequest" type="tns:GetUserOofSettingsRequest"/>
  <xs:complexType name="GetUserOofSettingsResponse">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ResponseMessage"
        type="m:ResponseMessageType"/>
      <xs:element minOccurs="0" maxOccurs="1" ref="t:OofSettings"/>
      <xs:element minOccurs="0" maxOccurs="1" name="AllowExternalOof"
        type="t:ExternalAudience"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

```

    </xs:sequence>
</xs:complexType>
<xs:element name="GetUserOofSettingsResponse" type="tns:GetUserOofSettingsResponse"/>
<xs:complexType name="SetUserOofSettingsRequest">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" ref="t:Mailbox"/>
        <xs:element minOccurs="1" maxOccurs="1" ref="t:UserOofSettings"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="SetUserOofSettingsRequest" type="tns:SetUserOofSettingsRequest"/>
<xs:complexType name="SetUserOofSettingsResponse">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ResponseMessage"
type="m:ResponseMessageType"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="SetUserOofSettingsResponse" type="tns:SetUserOofSettingsResponse"/>
</xs:schema>

```

7.2 Types Schema

This section contains the contents of the MS-OXWOOF-types.xsd file and information about additional files that this schema file requires to operate correctly.

MS-OXWOOF-types.xsd references the file listed in the following table. For this types schema file to operate correctly, this referenced file has to be present in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

File name	Defining specification
MS-OXWSCDATA-types.xsd	[MS-OXWSCDATA] section 7.2

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified" version="Exchange2013" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
<xs:include schemaLocation="MS-OXWSCDATA-types.xsd" />
  <xs:element name="Mailbox" type="t:EmailAddress"/>
  <xs:simpleType name="OofState">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Disabled"/>
      <xs:enumeration value="Enabled"/>
      <xs:enumeration value="Scheduled"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="ExternalAudience">
    <xs:restriction base="xs:string">
      <xs:enumeration value="None"/>
      <xs:enumeration value="Known"/>
      <xs:enumeration value="All"/>
    </xs:restriction>

```



```
</xs:simpleType>
<xs:complexType name="UserOofSettings">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="OofState" type="t:OofState"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ExternalAudience"
type="t:ExternalAudience"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Duration" type="t:Duration"/>
    <xs:element minOccurs="0" maxOccurs="1" name="InternalReply" type="t:ReplyBody"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ExternalReply" type="t:ReplyBody"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="OofSettings" type="t:UserOofSettings"/>
<xs:element name="UserOofSettings" type="t:UserOofSettings"/>
</xs:schema>
```

8 Appendix C: Product Behavior

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

- Microsoft Exchange Server 2007
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Office Outlook 2007
- Microsoft Outlook 2010
- Microsoft Outlook 2013

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

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

[<1> Section 2.2.4.1:](#) Exchange 2007 does not require that the <Duration> element be specified in UTC.

[<2> Section 3.1.4.1:](#) Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not include the **Impersonation** header as part of the WSDL **input** element.

[<3> Section 3.1.4.1.1.1:](#) Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

[<4> Section 3.1.4.2:](#) Exchange 2007 and Exchange 2010 do not include the **Impersonation** header as part of the WSDL **input** element. The **Impersonation** header was introduced in Exchange 2010 SP2.

[<5> Section 3.1.4.2.1.1:](#) Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

9 Change Tracking

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

10 Index

A

Abstract data model
 [server](#) 14
[Applicability](#) 8
[Attribute groups](#) 13
[Attributes](#) 13

C

[Capability negotiation](#) 8
[Change tracking](#) 35
[Complex types](#) 11
 [t:UserOofSettings Complex Type](#) 11

D

Data model - abstract
 [server](#) 14

E

Elements
 [t:Mailbox Element](#) 11
Events
 [local - server](#) 24
 [timer - server](#) 24

F

[Fields - vendor-extensible](#) 9
[Full WSDL](#) 29
[Full XML Schema](#) 31
 [Messages Schema](#) 31
 [Types Schema](#) 32

G

[Glossary](#) 6
[Groups](#) 13

I

[Implementer - security considerations](#) 28
[Index of security parameters](#) 28
[Informative references](#) 7
Initialization
 [server](#) 14
[Introduction](#) 6

L

Local events
 [server](#) 24

M

Message processing
 [server](#) 14

Messages

[attribute groups](#) 13
[attributes](#) 13
[complex types](#) 11
[elements](#) 10
[enumerated](#) 10
[groups](#) 13
[namespaces](#) 10
[simple types](#) 12
[syntax](#) 10
[t:ExternalAudience Simple Typesimple type](#) 12
[t:Mailbox Elementelement](#) 11
[t:OofState Simple Typesimple type](#) 13
[t:UserOofSettings Complex Typecomplex type](#) 11
[transport](#) 10

N

[Namespaces](#) 10
[Normative references](#) 7

O

Operations
 [GetUserOofSettings Operation](#) 14
 [SetUserOofSettings Operation](#) 19
[Overview \(synopsis\)](#) 7

P

[Parameters - security index](#) 28
[Preconditions](#) 8
[Prerequisites](#) 8
[Product behavior](#) 34
Protocol Details
 [overview](#) 14

R

[References](#) 7
 [informative](#) 7
 [normative](#) 7
[Relationship to other protocols](#) 8

S

Security
 [implementer considerations](#) 28
 [parameter index](#) 28
Sequencing rules
 [server](#) 14
Server
 [abstract data model](#) 14
 [GetUserOofSettings Operation operation](#) 14
 [initialization](#) 14
 [local events](#) 24
 [message processing](#) 14
 [sequencing rules](#) 14
 [SetUserOofSettings Operation operation](#) 19

[timer events](#) 24
[timers](#) 14
[Simple types](#) 12
 [t:ExternalAudience Simple Type](#) 12
 [t:OofState Simple Type](#) 13
[Standards assignments](#) 9
Syntax
 [messages - overview](#) 10

T

[t:ExternalAudience Simple Typesimple type](#) 12
[t:Mailbox Elementelement](#) 11
[t:OofState Simple Typesimple type](#) 13
[t:UserOofSettings Complex Typecomplex type](#) 11
Timer events
 [server](#) 24
Timers
 [server](#) 14
[Tracking changes](#) 35
[Transport](#) 10
Types
 [complex](#) 11
 [simple](#) 12

V

[Vendor-extensible fields](#) 9
[Versioning](#) 8

W

[WSDL](#) 29

X

[XML Schema](#) 31
 [Messages Schema](#) 31
 [Types Schema](#) 32