

[MS-OXWMT]: Mail Tips Web Service Extensions

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Revision Summary

Date	Revision History	Revision Class	Comments
04/10/2009	.1	Major	Initial Availability.
07/15/2009	1.0	Major	Revised and edited for technical content.
11/04/2009	1.1.0	Minor	Updated the technical content.
02/10/2010	2.0.0	Major	Updated and revised the technical content.
05/05/2010	2.0.1	Editorial	Revised and edited the technical content.
08/04/2010	2.0.1	No change	No changes to the meaning, language, or formatting of the technical content.
11/03/2010	2.0.1	No change	No changes to the meaning, language, or formatting of the technical content.

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1 Introduction

This document specifies the Mail Tips Web Service extensions, which are responsible for request-response **messages** for retrieving **mail tips** for a **mailbox**. Clients use the SOAP protocol [[SOAP1.1](#)] to contact the Mail Tips Web service.

1.1 Glossary

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

Active Directory domain
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
mail tip
mailbox
Out of Office (OOF)
property
recipient
Simple Mail Transfer Protocol (SMTP)
SOAP body
SOAP fault
SOAP header
Web Services Description Language (WSDL)
WSDL message
WSDL port type
XML
XML schema

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.

1.2 References

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-OXWSADISC] Microsoft Corporation, "[Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol Specification](#)", July 2009.

[MS-OXWSCDATA] Microsoft Corporation, "[Common Web Service Data Types](#)", July 2009.

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

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", BCP 47, RFC 3066, January 2001, <http://www.ietf.org/rfc/rfc3066.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[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., Eds., et al., "Namespaces in XML 1.0 (Third Edition)", December 2009, <http://www.w3.org/TR/REC-xml-names/>

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

[XMLSCHEMA2] Biron, P., 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-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)", April 2008.

1.3 Overview

Mail tips are bits of information that are presented to the author of a message while they are composing, to help them understand what will happen when they send the message. The Mail Tips Web Service extensions enable e-mail clients to request information about **recipient** mailboxes from the server by using the SOAP protocol [\[SOAP1.1\]](#). The **XML** that is returned in the response allows the client to present this information to the author.

1.4 Relationship to Other Protocols

The Mail Tips Web Service extensions use SOAP over **HTTP** and SOAP over **HTTPS**, as shown in the following figures.

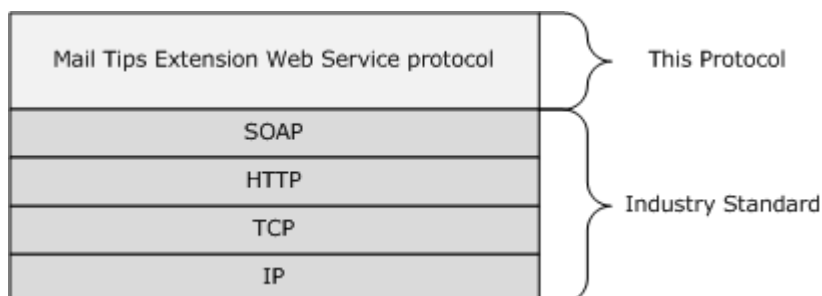


Figure 1: SOAP over HTTP

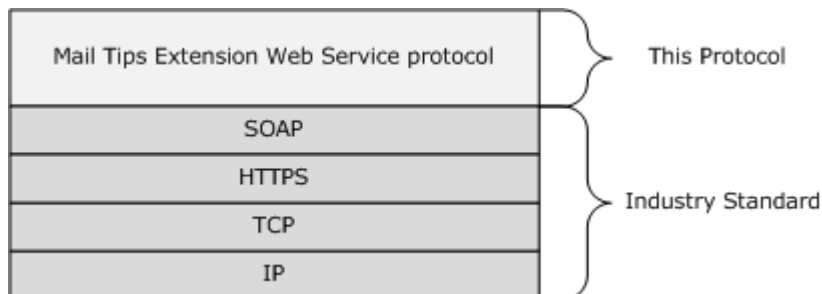


Figure 2: SOAP over HTTPS

1.5 Prerequisites/Preconditions

The URL of the Mailtips Web Service extensions can be retrieved by using the Autodiscover Publishing and Lookup SOAP-Based Web Service protocol [\[MS-OXWSADISC\]](#).

1.6 Applicability Statement

The Mailtips Web Service extensions can be used when access to helpful mailbox information is available and when communication with the server is enabled for SOAP over HTTP or SOAP over HTTPS.

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 specifies only one **WSDL port type** version.
- **Security and Authentication Methods:** This protocol relies on the Web server that is hosting it to perform authentication.
- **Capability Negotiation:** None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The SOAP version supported is SOAP 1.1. For details, see [\[SOAP1.1\]](#).

2.2 Common Message Syntax

This section specifies 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 that are defined by this specification. XML schema element definitions that are specific to a particular operation are defined with the operation.

Element	Description
t:MailboxCulture	Specifies the mailbox language.

2.2.4 Complex Types

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

Complex type	Description
m:BaseRequestType	The base request type.
t:EmailAddressType	Specifies the identity of the sender or recipient actor of the request.
t:MailboxCultureType	Specifies the mailbox language.
t:RequestServerVersion	Specifies the server version to target.
m:ResponseMessageType	Specifies the base type for the GetMailTipsResponseMessageType and GetMailTipsConfigurationResponseMessageType types.
t:ServerVersionInfo	Specifies the server version.

2.2.5 Simple Types

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

Simple type	Description
t:NonEmptyStringType	Specifies a string with a minimum length of one character.
t:ExchangeVersionType	Specifies the server version.
m:ResponseCodeType	Specifies the response codes that are returned in a response.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

3.1 ExchangeServicePortType Server Details

The Mail Tips Web Service extensions define a single port type.

```
<wsdl:portType name="ExchangeServicePortType">
  <wsdl:operation name="GetMailTips">
    <wsdl:input message="tns:GetMailTipsSoapIn" />
    <wsdl:output message="tns:GetMailTipsSoapOut" />
  </wsdl:operation>

  <wsdl:operation name="GetServiceConfiguration">
    <wsdl:input message="tns:GetServiceConfigurationSoapIn" />
    <wsdl:output message="tns:GetServiceConfigurationSoapOut" />
  </wsdl:operation>
</wsdl:portType>
```

3.1.1 Abstract Data Model

The Mail Tips Web Service extensions extend a stateless protocol.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

This protocol includes the two operations listed in the following table.

Operation	Description
GetMailTips	Provides mail tips information for a mailbox.
GetServiceConfiguration	Provides policy configuration information for a mailbox.

3.1.4.1 GetMailTips

The **GetMailTips** operation gets the mail tips information for a mailbox.

```
<wsdl:operation name="GetMailTips">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetMailTips" />
  <wsdl:input>
    <soap:body parts="request" use="literal"/>
  </wsdl:input>
</wsdl:operation>
```

```

    <soap:header message="tns:GetMailTipsSoapIn" part="RequestVersion" use="literal"/>
    <soap:header message="tns:GetMailTipsSoapIn" part="MailboxCulture" use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="GetMailTipsResult" use="literal" />
    <soap:header message="tns:GetMailTipsSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

3.1.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.1.1.1 GetMailTipsSoapIn

The **GetMailTipsSoapIn** message contains three parts.

Part Name	Element/Type	Description
request	GetMailTips	This part specifies the request.
RequestVersion	RequestServerVersion	This part specifies the schema version for the GetMailTips request.
MailboxCulture	MailboxCulture	This part specifies the culture to use for accessing the mailbox. The cultures are defined by [RFC3066] .

3.1.4.1.1.2 GetMailTipsSoapOut

The **GetMailTipsSoapOut** message contains two parts.

Part Name	Element/Type	Description
GetMailTipsResult	GetMailTipsResponse	This part specifies the response.
ServerVersion	ServerVersionInfo	This part specifies the server version for the response.

3.1.4.1.2 Elements

The following XML schema element definitions are specific to this operation.

3.1.4.1.2.1 GetMailTips

The **GetMailTips** element specifies the base element for a **GetMailTips** request.

```
<xs:element name="GetMailTips" type="m:GetMailTipsType"/>
```

3.1.4.1.2.2 GetMailTipsResponse

The **GetMailTipsResponse** element specifies the response message for a **GetMailTips** operation.

```
<xs:element name="GetMailTipsResponse" type="m:GetMailTipsResponseMessageType"/>
```

3.1.4.1.3 Complex Types

The following XML schema complex type definitions are specific to this operation.

3.1.4.1.3.1 m:ArrayOfMailTipsResponseMessageType

The **ArrayOfMailTipsResponseMessageType** type specifies an array of mail tips response messages.

```
<xs:complexType name="ArrayOfMailTipsResponseMessageType">
  <xs:sequence>
    <xs:element name="MailTipsResponseMessageType" type="m:MailTipsResponseMessageType"
minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

Element	Type	Definition
MailTipsResponseMessageType	m:MailTipsResponseMessageType	Contains a mail tips response message. This element MUST occur at least once and can occur two or more times.

3.1.4.1.3.2 m:GetMailTipsResponseMessageType

The **GetMailTipsResponseMessageType** complex type contains the response message for a **GetMailTips** operation. The **GetMailTipsResponseMessageType** complex type extends the **ResponseMessageType** complex type ([\[MS-OXWSCDATA\]](#) section 2.2.3.52).

```
<xs:complexType name="GetMailTipsResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="ResponseMessages" type="m:ArrayOfMailTipsResponseMessageType"
minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
ResponseMessages	m:ArrayOfMailTipsResponseMessageType	Contains an array of mail tips response messages. This element MUST occur if there are mail tips.

3.1.4.1.3.3 m:GetMailTipsType

The **GetMailTipsType** complex type specifies the requested mail tips and identifies the sender or recipient actor who is making the request. The recipient actor can be different from the user who authenticated with the server. The **GetMailTipsType** complex type extends the **BaseRequestType** complex type ([\[MS-OXWSCDATA\]](#) section 2.2.3.14).

```

<xs:complexType name="GetMailTipsType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="SendingAs" type="t:EmailAddressType" minOccurs="1" maxOccurs="1" />
        <xs:element name="Recipients" type="t:ArrayOfRecipientsType" minOccurs="1"
maxOccurs="1" />
        <xs:element name="MailTipsRequested" type="t:MailTipTypes" minOccurs="1"
maxOccurs="1" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

3.1.4.1.3.4 t:MailTips

The **MailTips** complex type contains values for the Mail Tips Web service.

```

<xs:complexType name="MailTips">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="RecipientAddress" type="t:EmailAddressType"
/>
    <xs:element minOccurs="1" maxOccurs="1" name="PendingMailTips" type="t:MailTipTypes" />
    <xs:element minOccurs="0" maxOccurs="1" name="OutOfOffice" type="t:OutOfOfficeMailTip" />
    <xs:element minOccurs="0" maxOccurs="1" name="OutOfOfficeMessage" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="MailboxFull" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="CustomMailTip" type="xs:string" />
    <xs:element minOccurs="0" maxOccurs="1" name="TotalMemberCount" type="xs:int" />
    <xs:element minOccurs="0" maxOccurs="1" name="ExternalMemberCount" type="xs:int" />
    <xs:element minOccurs="0" maxOccurs="1" name="MaxMessageSize" type="xs:int" />
    <xs:element minOccurs="0" maxOccurs="1" name="DeliveryRestricted" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="IsModerated" type="xs:boolean" />
    <xs:element minOccurs="0" maxOccurs="1" name="InvalidRecipient" type="xs:boolean" />
  </xs:sequence>
</xs:complexType>

```

Element	Type	Definition
<RecipientAddress>	t:EmailAddressType	Specifies the mailbox of the recipient.
<PendingMailTips>	t:MailTipTypes	Indicates that the mail tips in this element could not be evaluated before the server's processing timeout expired.
<OutOfOffice>	t:OutOfOfficeMailTip	Specifies the response message for OOF and the duration for sending this message.
<MailboxFull>	xs:boolean	Specifies whether the mailbox for the recipient is full.
<CustomMailTip>	xs:string	Specifies a custom mail tip.
<TotalMemberCount>	xs:int	Specifies the total number of members in a group. This value MUST be a non-negative integer.
<ExternalMemberCount>	xs:int	Specifies the number of external members in a group. This value MUST be a non-negative integer.

Element	Type	Definition
<MaxMessageSize>	xs:int	Specifies the maximum message size the recipient can accept. This value MUST be a non-negative integer.
<DeliveryRestricted>	xs:boolean	Indicates whether delivery restrictions will prevent the sender's message from reaching the recipient.
<IsModerated>	xs:boolean	Specifies whether the recipient's mailbox is being moderated.
<InvalidRecipient>	xs:boolean	Specifies whether the recipient is invalid.

When the <InvalidRecipient> **MailTips** element is sent by the client to the server, the server will indicate which of the given recipients are invalid. A recipient is considered "invalid" in the following cases:

- The recipient's address has a routing type of "EX" and the recipient does not exist in the directory.
- The recipient's address has a routing type of **SMTP**, and the **domain** part of the SMTP address is empty.
- The recipient's address has a routing type of SMTP, and the domain part of the SMTP address is a domain for which the organization is authoritative, and the recipient does not exist in the directory.

3.1.4.1.3.5 m:MailTipsResponseMessageType

The **MailTipsResponseMessageType** complex type specifies mail tips settings. The **MailTipsResponseMessageType** complex type extends the **ResponseMessageType** complex type ([\[MS-OXWSCDATA\]](#) section 2.2.3.52).

```
<xs:complexType name="MailTipsResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="MailTips" type="t:MailTips" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
MailTips	t:MailTips	Contains values for the mail tips service. This element MUST occur for sender hints configuration.

3.1.4.1.3.6 t:OutOfOfficeMailTip

The **OutOfOfficeMailTip** complex type contains the response message and a duration time for sending the response message.

```
<xs:complexType name="OutOfOfficeMailTip">
```

```

<xs:sequence>
  <xs:element minOccurs="1" maxOccurs="1" name="ReplyBody" type="t:ReplyBody"/>
  <xs:element minOccurs="0" maxOccurs="1" name="Duration" type="t:Duration"/>
</xs:sequence>
</xs:complexType>

```

Element	Type	Definition
<ReplyBody>	t:ReplyBody	Contains the OOF message response. This element is required and MUST only occur once.
<Duration>	t:Duration	Contains the start and end time for sending OOF messages. This element is optional, and if present MUST only occur once.

3.1.4.1.3.7 t:ReplyBody

The **ReplyBody** type specifies the OOF message response.

```

<xs:complexType name="ReplyBody">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Message" type="xs:string" />
  </xs:sequence>
  <xs:attribute ref="xml:lang" use="optional" />
</xs:complexType>

```

Element	Type	Definition
Message	xs:string	Contains the OOF message response.
Lang	xml:lang	Indicates the language that the OOF message was written in. This element is optional.

3.1.4.1.4 Simple Types

The following XML schema simple definitions are specific to this operation.

3.1.4.1.4.1 t:MailTipTypes

The **MailTipsType** simple type describes the types of mail tips that are supported by the service.

```

<xs:simpleType name="MailTipTypes">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="All" />
        <xs:enumeration value="OutOfOfficeMessage" />
        <xs:enumeration value="MailboxFullStatus" />
        <xs:enumeration value="CustomMailTip" />
        <xs:enumeration value="ExternalMemberCount" />
        <xs:enumeration value="TotalMemberCount" />
        <xs:enumeration value="MaxMessageSize" />
        <xs:enumeration value="DeliveryRestriction" />
        <xs:enumeration value="ModerationStatus" />
        <xs:enumeration value="InvalidRecipient" />
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```

```

    </xs:simpleType>
  </xs:list>
</xs:simpleType>

```

Value	Description
All	Represents all available mail tips.
OutOfOfficeMessage	Represents the Out of Office (OOF) message.
MailboxFullStatus	Represents the status for a mailbox being full.
CustomMailTip	Represents a custom mail tip.
ExternalMemberCount	Represents the count of external members.
TotalMemberCount	Represents the count of all members.
MaxMessageSize	Represents the maximum message size a recipient can accept.
DeliveryRestriction	Indicates whether delivery restrictions will prevent the sender's message from reaching the recipient.
ModerationStatus	Indicates whether the sender's message will be reviewed by a moderator.
InvalidRecipient	Indicates whether the recipient is valid.

When the InvalidRecipient **MailTipsType** is sent by the client to the server, the server will indicate which of the given recipients are invalid. A recipient is considered "invalid" in the following cases:

- The recipient's address has a routing type of "EX" and the recipient does not exist in the directory.
- The recipient's address has a routing type of SMTP, and the domain part of the SMTP address is empty.
- The recipient's address has a routing type of SMTP, and the domain part of the SMTP address is a domain for which the organization is authoritative, and the recipient does not exist in the directory.

3.1.4.1.5 Attributes

This specification does not define any specific XML schema attribute definitions for this operation.

3.1.4.1.6 Groups

This specification does not define any specific XML schema group definitions for this operation.

3.1.4.1.7 Attribute Groups

This specification does not define any specific XML schema attribute group definitions for this operation.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

3.2 Client Details

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

3.2.1 Abstract Data Model

None.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Message Processing Events and Sequencing Rules

None.

3.2.5 Timer Events

None.

3.2.6 Other Local Events

None.

4 Protocol Examples

4.1 GetMailTips Request

The following example shows how to get mail tips for a user.

```
<?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/"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>

  <soap:Body>
    <GetMailTips xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <SendingAs>
        <t:EmailAddress> user1@contoso.com </t:EmailAddress>
        <t:RoutingType>SMTP</t:RoutingType>
      </SendingAs>
      <Recipients>
        <t:Mailbox>
          <t:EmailAddress> user2@contoso.com </t:EmailAddress>
          <t:RoutingType>SMTP</t:RoutingType>
        </t:Mailbox>
      </Recipients>
      <MailTipsRequested>All</MailTipsRequested>
    </GetMailTips>
  </soap:Body>
</soap:Envelope>
```

4.2 GetMailTips Response

The following is an example of a successful response from the **GetMailTips** service.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14" MinorVersion="0" MajorBuildNumber="536"
      MinorBuildNumber="0" Version="Exchange2010"
      xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetMailTipsResponse ResponseClass="Success"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>
      <ResponseMessages>
        <MailTipsResponseMessageType ResponseClass="Success">
          <ResponseCode>NoError</ResponseCode>
          <m:MailTips xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
```

```

        <t:RecipientAddress
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
            <t:Name/>
            <t:EmailAddress>user2@contoso.com</t:EmailAddress>
            <t:RoutingType>SMTP</t:RoutingType>
        </t:RecipientAddress>
        <t:PendingMailTips
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"/>
            <t:OutOfOffice
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
                <t:ReplyBody>
                    <t:Message/>
                </t:ReplyBody>
            </t:OutOfOffice>
            <t:MailboxFull
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">false</t:MailboxFull>
            <t:CustomMailTip
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">Hello World
Mailtips</t:CustomMailTip>
            <t>TotalMemberCount
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">1</t>TotalMemberCount>
            <t:ExternalMemberCount
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">0</t:ExternalMemberCount>
            <t:MaxMessageSize
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">10485760</t:MaxMessageSize>
            <t:DeliveryRestricted
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">false</t:DeliveryRestricted>
            <t:IsModerated
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">false</t:IsModerated>
            <t:InvalidRecipient
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">false</t:InvalidRecipient>
        </m:MailTips>
    </MailTipsResponseMessageType>
</ResponseMessages>
</GetMailTipsResponse>
</s:Body>
</s:Envelope>

```

5 Security

5.1 Security Considerations for Implementers

The Mailtips Extensions to Web Service protocol does not use additional security mechanisms.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

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

Section	File name	Description
WSDL	MS-OXWMT.wsdl	Contains the WSDL for the implementation of this protocol.
Types Schema	MS-OXWMT-types.xsd	Contains the XML schema type definitions that are used in this protocol.
Messages Schema	MS-OXWMT-messages.xsd	Contains the XML schema message definitions that are used in this protocol.

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

6.1 WSDL

This section contains the contents of the MS-OXWMT.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"
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="Exchange2010"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
<xs:include schemaLocation="MS-OXWMT-messages.xsd"/>
</xs:schema>
</wsdl:types>
<wsdl:message name="GetMailTipsSoapIn">
<wsdl:part name="request" element="tns:GetMailTips"/>
<wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
<wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
</wsdl:message>
<wsdl:message name="GetMailTipsSoapOut">
<wsdl:part name="GetMailTipsResult" element="tns:GetMailTipsResponse"/>
<wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:portType name="ExchangeServicePortType">
<wsdl:operation name="GetMailTips">
<wsdl:input message="tns:GetMailTipsSoapIn"/>
<wsdl:output message="tns:GetMailTipsSoapOut"/>
</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="GetMailTips">
```

```

<soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetMailTips"/>
<wsdl:input>
<soap:body parts="request" use="literal"/>
<soap:header message="tns:GetMailTipsSoapIn" part="RequestVersion" use="literal"/>
<soap:header message="tns:GetMailTipsSoapIn" part="MailboxCulture" use="literal"/>
</wsdl:input>
<wsdl:output>
<soap:body parts="GetMailTipsResult" use="literal"/>
<soap:header message="tns:GetMailTipsSoapOut" part="ServerVersion" use="literal"/>
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

6.2 Types Schema

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

MS-OXWMT-types.xsd includes the files listed in the following table. For the schema file to operate correctly, these files need to be present in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

Defining specification	File name
[MS-OXWSCDATA] , section 6.3	MS-OXWSCDATA-types.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema 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/types"
elementFormDefault="qualified" version="Exchange2010" id="types">
<xs:include schemaLocation="MS-OXWSCDATA-types.xsd"/>
<xs:simpleType name="MailTipTypes">
<xs:list>
<xs:simpleType>
<xs:restriction base="xs:string">
<xs:enumeration value="All"/>
<xs:enumeration value="OutOfOfficeMessage"/>
<xs:enumeration value="MailboxFullStatus"/>
<xs:enumeration value="CustomMailTip"/>
<xs:enumeration value="ExternalMemberCount"/>
<xs:enumeration value="TotalMemberCount"/>
<xs:enumeration value="MaxMessageSize"/>
<xs:enumeration value="DeliveryRestriction"/>
<xs:enumeration value="ModerationStatus"/>
<xs:enumeration value="InvalidRecipient"/>
</xs:restriction>
</xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:complexType name="OutOfOfficeMailTip">
<xs:sequence>
<xs:element minOccurs="1" maxOccurs="1" name="ReplyBody" type="t:ReplyBody"/>
<xs:element minOccurs="0" maxOccurs="1" name="Duration" type="t:Duration"/>

```

```

</xs:sequence>
</xs:complexType>
<xs:complexType name="MailTips">
<xs:sequence>
<xs:element minOccurs="1" maxOccurs="1" name="RecipientAddress" type="t:EmailAddressType"/>
<xs:element minOccurs="1" maxOccurs="1" name="PendingMailTips" type="t:MailTipTypes"/>
<xs:element minOccurs="0" maxOccurs="1" name="OutOfOffice" type="t:OutOfOfficeMailTip"/>
<xs:element minOccurs="0" maxOccurs="1" name="OutOfOfficeMessage" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="MailboxFull" type="xs:boolean"/>
<xs:element minOccurs="0" maxOccurs="1" name="CustomMailTip" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="TotalMemberCount" type="xs:int"/>
<xs:element minOccurs="0" maxOccurs="1" name="ExternalMemberCount" type="xs:int"/>
<xs:element minOccurs="0" maxOccurs="1" name="MaxMessageSize" type="xs:int"/>
<xs:element minOccurs="0" maxOccurs="1" name="DeliveryRestricted" type="xs:boolean"/>
<xs:element minOccurs="0" maxOccurs="1" name="IsModerated" type="xs:boolean"/>
<xs:element minOccurs="0" maxOccurs="1" name="InvalidRecipient" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>
</xs:schema>

```

6.3 Messages Schema

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

MS-OXWMT- messages.xsd includes the file listed in the following table. For the schema file to operate correctly, this file needs to be in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

Defining specification	File name
[MS-OXWSCDATA] , section 6.3	MS-OXWSCDATA-messages.xsd

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:m="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="Exchange2010" id="messages">
<xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
schemaLocation="MS-OXWMT-types.xsd"/>
<xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
<xs:complexType name="ArrayOfMailTipsResponseMessageType">
<xs:sequence>
<xs:element name="MailTipsResponseMessageType" type="m:MailTipsResponseMessageType"
minOccurs="1" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
<xs:complexType name="GetMailTipsResponseMessageType">
<xs:complexContent>
<xs:extension base="m:ResponseMessageType">
<xs:sequence>
<xs:element name="ResponseMessages" type="m:ArrayOfMailTipsResponseMessageType" minOccurs="0"
maxOccurs="1"/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

```
<xs:complexType name="GetMailTipsType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="SendingAs" type="t:EmailAddressType" minOccurs="1" maxOccurs="1"/>
        <xs:element name="Recipients" type="t:ArrayOfRecipientsType" minOccurs="1" maxOccurs="1"/>
        <xs:element name="MailTipsRequested" type="t:MailTipTypes" minOccurs="1" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="MailTipsResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="MailTips" type="t:MailTips" minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetMailTipsResponse" type="m:GetMailTipsResponseMessageType"/>
<xs:element name="GetMailTips" type="m:GetMailTipsType"/>
</xs:schema>
```


7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products:

- Microsoft® Exchange Server 2010
- Microsoft® Outlook® 2010

Exceptions, if any, are noted below. If a service pack number appears with the product version, behavior changed in that service pack. 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 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 product does not follow the prescription.

8 Change Tracking

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

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