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## Revision Summary

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Table of Contents

1 Introduction ........................................................................................................... 6
  1.1 Glossary ........................................................................................................... 6
  1.2 References ....................................................................................................... 8
    1.2.1 Normative References ............................................................................. 8
    1.2.2 Informative References ........................................................................... 8
  1.3 Overview .......................................................................................................... 8
  1.4 Relationship to Other Protocols ...................................................................... 9
  1.5 Prerequisites/Preconditions .......................................................................... 9
  1.6 Applicability Statement ................................................................................ 9
  1.7 Versioning and Capability Negotiation ....................................................... 9
  1.8 Vendor-Extensible Fields ............................................................................ 10
  1.9 Standards Assignments .............................................................................. 10

2 Messages .............................................................................................................. 11
  2.1 Transport ....................................................................................................... 11
  2.2 Common Message Syntax ............................................................................ 11
    2.2.1 Namespaces .......................................................................................... 11
    2.2.2 Messages .............................................................................................. 11
    2.2.3 Elements ............................................................................................... 11
    2.2.4 Complex Types .................................................................................... 12
    2.2.5 Simple Types ....................................................................................... 12
    2.2.6 Attributes ............................................................................................. 12
    2.2.7 Groups ................................................................................................. 12
    2.2.8 Attribute Groups .................................................................................. 12

3 Protocol Details .................................................................................................... 13
  3.1 ExchangeServicePortType Server Details .................................................. 13
    3.1.1 Abstract Data Model .............................................................................. 13
    3.1.2 Timer ...................................................................................................... 13
    3.1.3 Initialization .......................................................................................... 13
    3.1.4 Message Processing Events and Sequencing Rules ................................. 13
      3.1.4.1 GetMailTips ..................................................................................... 13
        3.1.4.1.1 Messages .................................................................................. 14
          3.1.4.1.1.1 tns:GetMailTipsSoapIn Message ............................................. 14
          3.1.4.1.1.2 tns:GetMailTipsSoapOut Message ........................................ 15
        3.1.4.1.2 Elements .................................................................................. 15
          3.1.4.1.2.1 GetMailTips Element ............................................................. 15
          3.1.4.1.2.2 GetMailTipsResponse Element ........................................... 15
        3.1.4.1.3 Complex Types ......................................................................... 15
          3.1.4.1.3.1 m:ArrayOfMailTipsResponseMessageType Complex Type .... 16
          3.1.4.1.3.2 m:GetMailTipsResponseMessageType Complex Type ........ 16
          3.1.4.1.3.3 m:GetMailTipsType Complex Type .................................... 17
          3.1.4.1.3.4 t:MailTips Complex Type ................................................. 17
          3.1.4.1.3.5 m:MailTipsResponseMessageType Complex Type ............. 19
          3.1.4.1.3.6 t:OutOfOfficeMailTip Complex Type .................................. 19
        3.1.4.1.4 Simple Types .............................................................................. 20
          3.1.4.1.4.1 t:MailTipTypes Simple Type .............................................. 20
        3.1.4.1.5 Attributes .................................................................................. 21
        3.1.4.1.6 Groups ....................................................................................... 21
        3.1.4.1.7 Attribute Groups ....................................................................... 21
    3.1.5 Timer Events ............................................................................................. 21
    3.1.6 Other Local Events .................................................................................. 21

4 Protocol Examples ................................................................................................ 22
  4.1 GetMailTips Request ..................................................................................... 22
4.2 GetMailTips Response

5 Security

5.1 Security Considerations for Implementers

5.2 Index of Security Parameters

6 Appendix A: Full WSDL

7 Appendix B: Full XML Schema

7.1 Messages Schema

7.2 Types Schema

8 Appendix C: Product Behavior

9 Change Tracking

10 Index
1 Introduction

The Mail Tips Web Service Extensions are used to retrieve custom information and status updates for a mailbox and the recipients of an email message.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

**Active Directory**: The Windows implementation of a general-purpose directory service, which uses LDAP as its primary access protocol. Active Directory stores information about a variety of objects in the network such as user accounts, computer accounts, groups, and all related credential information used by Kerberos [MS-KILE]. Active Directory is either deployed as Active Directory Domain Services (AD DS) or Active Directory Lightweight Directory Services (AD LDS), which are both described in [MS-ADOD]: Active Directory Protocols Overview.

**domain**: A set of users and computers sharing a common namespace and management infrastructure. At least one computer member of the set must act as a domain controller (DC) and host a member list that identifies all members of the domain, as well as optionally hosting the Active Directory service. The domain controller provides authentication of members, creating a unit of trust for its members. Each domain has an identifier that is shared among its members. For more information, see [MS-AUTHSOD] section 1.1.1.5 and [MS-ADTS].

**email address**: A string that identifies a user and enables the user to receive Internet messages.

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

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

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

**mail tip**: A note that is presented to the author of a message when the author is composing the message. A mail tip provides information about the recipients of a message and issues that might impact delivery of the message, such as moderation or delivery restrictions.

**mailbox**: A message store that contains email, calendar items, and other Message objects for a single recipient.

**Out of Office (OOF)**: One of the possible values for the free/busy status on an appointment. It indicates that the user will not be in the office during the appointment.

**recipient**: An entity that can receive email messages.

**response message**: A Traversal Using Relay NAT (TURN) message that is sent from a protocol server to a protocol client in response to a request message. It is sent when the request message is handled successfully by the protocol server.

**Simple Mail Transfer Protocol (SMTP)**: A member of the TCP/IP suite of protocols that is used to transport Internet messages, as described in [RFC5321].
SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. SOAP uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [SOAP1.2-1/2003].

SOAP action: The HTTP request header field used to indicate the intent of the SOAP request, using a URI value. See [SOAP1.1] section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [SOAP1.2-1/2007] section 5.3 for more information.

SOAP header: A mechanism for implementing extensions to a SOAP message in a decentralized manner without prior agreement between the communicating parties. See [SOAP1.2-1/2007] section 5.2 for more information.

SOAP message: An XML document consisting of a mandatory SOAP envelope, an optional SOAP header, and a mandatory SOAP body. See [SOAP1.2-1/2007] section 5 for more information.

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [RFC1738].

web server: A server computer that hosts websites and responds to requests from applications.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

WSDL message: An abstract, typed definition of the data that is communicated during a WSDL operation [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL port type: A named set of logically-related, abstract Web Services Description Language (WSDL) operations and messages.

XML: The Extensible Markup Language, as described in [XML1.0].

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

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

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

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

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

1.2.1 Normative References

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

[MS-OXWSCDATA] Microsoft Corporation, "Common Web Service Data Types".


1.2.2 Informative References


1.3 Overview

Mail tips are bits of information that are presented to the author of a message when the author is composing the message. A mail tip provides information about the recipients of a message and issues that might impact delivery of the message, such as moderation or delivery constraints. The Mail Tips Web Service Extensions enable email clients to request information about recipient mailboxes.
from the server by using SOAP, as described in [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
A client that implements this protocol can use 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-OXDSCLI], to identify the target endpoint to use for each operation.

This protocol uses the SOAP Protocol, as described in [SOAP1.1], to specify the structure information that is exchanged between the client and server. This protocol uses the XML Protocol, as described in [XMLSCHEMA1] and [XMLSCHEMA2], to describe the message content sent to and from the server.

This protocol uses SOAP over HTTP, as described in [RFC2616], and SOAP over HTTPS, as described in [RFC2818], as shown in the following layering diagram.

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<td>Industry Standard</td>
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```

**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 URL that is returned by either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], is required to form the HTTP request to the web server that hosts this protocol. The operations that this protocol defines cannot be accessed unless the correct endpoint is identified in the HTTP web requests that target this protocol.

1.6 Applicability Statement

The Mail Tips 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 has only one WSDL port type version. The WSDL version of the request is identified by using the RequestServerVersion element, as described in [MS-
section 2.2.4.7, and the version of the server responding to the request is identified by using the ServerVersionInfo element, as described in [MS-OXWSCDATA] section 2.2.4.8.

- **Security and Authentication Methods:** This protocol relies on the web server that is hosting it to perform authentication.

- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are specified in sections 2.2 and 3.1.4.

- **Capability Negotiation:** This protocol does not support version negotiation.

### 1.8 Vendor-Extensible Fields

None.

### 1.9 Standards Assignments

None.
2 Messages

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

2.1 Transport

This protocol uses the Simple Object Access Protocol (SOAP) 1.1, as specified in [SOAP1.1].

This protocol relies on the web server that hosts the application to perform authentication. The protocol MUST support SOAP over HTTP, as specified in [RFC2616]. The protocol SHOULD use secure communications via HTTPS, as defined in [RFC2818].

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.

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2.2.2 Messages

This specification does not define any common WSDL message definitions.

2.2.3 Elements

This specification does not define any common XML schema element definitions.
2.2.4 Complex Types
This specification does not define any common XML schema complex type definitions.

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

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

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

2.2.8 Attribute Groups
This specification does not define any common XML schema attribute group definitions.
3 Protocol Details

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

3.1 ExchangeServicePortType Server Details

The Mail Tips Web Service Extensions define a single port type with one operation. The operation enables client implementations to retrieve mail tips for an email recipient.

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.

The Mail Tips Web Service Extensions are used to retrieve mail tips for a specified mailbox on the server. The server maintains the mail tips.

The client is not required to maintain the state of mail tips on the server and can retrieve the current set of mail tips at any time.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

This protocol includes the operation listed in the following table.

<table>
<thead>
<tr>
<th>Operation name</th>
<th>Description</th>
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<tbody>
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<td>GetMailTips</td>
<td>Provides mail tips information for a mailbox.</td>
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</table>

3.1.4.1 GetMailTips

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

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

```xml
<wSDL:operation name="GetMailTips">
  <wSDL:input message="tns:GetMailTipsSoapIn"/>
  <wSDL:output message="tns:GetMailTipsSoapOut"/>
</wSDL:operation>
```
The following is the WSDL binding specification of the operation.

```xml
<wsdl:operation name="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>

3.1.4.1.1 Messages

The following table lists the **WSDL message** definitions that are specific to this operation.

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetMailTipsSoapIn</td>
<td>Specifies the <strong>SOAP message</strong> that gets the <strong>mail tips</strong> for the <strong>mailbox</strong>.</td>
</tr>
<tr>
<td>GetMailTipsSoapOut</td>
<td>Specifies the <strong>SOAP message</strong> that is returned by the server in response.</td>
</tr>
</tbody>
</table>

3.1.4.1.1.1 tns:GetMailTipsSoapIn Message

The **GetMailTipsSoapIn** **WSDL message** specifies the **GetMailTips** operation request to get the **mail tips** for a mailbox.

```xml
<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>
```

The **GetMailTipsSoapIn** **WSDL message** is the input message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/GetMailTips.

The parts of the **GetMailTipsSoapIn** **WSDL message** are described in the following table.

<table>
<thead>
<tr>
<th>Part name</th>
<th>Element/type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>request</td>
<td>tns:GetMailTips (<a href="#">3.1.4.1.2.1</a>)</td>
<td>Specifies the <strong>SOAP body</strong> of the request to get mail tips for a mailbox.</td>
</tr>
<tr>
<td>RequestVersion</td>
<td>t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.3.9)</td>
<td>Specifies a <strong>SOAP header</strong> that identifies the schema version for the GetMailTips operation request.</td>
</tr>
<tr>
<td>MailboxCulture</td>
<td>t:MailboxCulture ([MS-OXWSCDATA] section 2.2.3.6)</td>
<td>Specifies a SOAP header that identifies the language to use for accessing the mailbox. The languages are defined by [RFC3066].</td>
</tr>
</tbody>
</table>

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### 3.1.4.1.2  `tns:GetMailTipsSoapOut` Message

The `GetMailTipsSoapOut` WSDL message specifies the server response to the `GetMailTips` operation request to get mail tips for a mailbox.

```xml
<wSDL:message name="GetMailTipsSoapOut">
    <wSDL:part name="GetMailTipsResult" element="tns:GetMailTipsResponse"/>
    <wSDL:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wSDL:message>
```

The `GetMailTipsSoapOut` WSDL message is the output message for the SOAP action `http://schemas.microsoft.com/exchange/services/2006/messages/GetMailTips`.

The parts of the `GetMailTipsSoapOut` message are described in the following table.

<table>
<thead>
<tr>
<th>Part name</th>
<th>Element/type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetMailTipsResult</td>
<td><code>tns:GetMailTipsResponse</code> (section 3.1.4.1.2.2)</td>
<td>Specifies the SOAP body of the response to a <code>GetMailTips</code> operation request.</td>
</tr>
<tr>
<td>ServerVersion</td>
<td><code>t:ServerVersionInfo</code> ([MS-OXWSCDATA] section 2.2.3.10)</td>
<td>Specifies a SOAP header that identifies the server version of the response.</td>
</tr>
</tbody>
</table>

### 3.1.4.1.2 Elements

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

<table>
<thead>
<tr>
<th>Element name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetMailTips</td>
<td>Specifies a request to get mail tips for a mailbox.</td>
</tr>
<tr>
<td>GetMailTipsResponse</td>
<td>Specifies the response body content from a request to get mail tips for a mailbox.</td>
</tr>
</tbody>
</table>

#### 3.1.4.1.2.1 GetMailTips Element

The `GetMailTips` element specifies the request message for a `GetMailTips` operation.

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

#### 3.1.4.1.2.2 GetMailTipsResponse Element

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

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

### 3.1.4.1.3 Complex Types

The following table lists the XML schema complex type definitions that are specific to this operation.
### 3.1.4.1.3.1 m:ArrayOfMailTipsResponseMessageType Complex Type

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

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

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MailTipsResponseMessageType</td>
<td>m:MailTipsResponseMessageType</td>
<td>Contains a mail tips response message. This element can occur one or more times.</td>
</tr>
</tbody>
</table>

### 3.1.4.1.3.2 m:GetMailTipsResponseMessageType Complex Type

The `GetMailTipsResponseMessageType` complex type contains the response message for a `GetMailTips` operation. The `GetMailTipsResponseMessageType` complex type extends the `ResponseMessageType` complex type, as specified in [MS-OXWSCDATA] section 2.2.4.67.

```xml
<xs:complexType name="GetMailTipsResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="ResponseMessages" type="m:ArrayOfMailTipsResponseMessageType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```
### 3.1.4.1.3.3 m:GetMailTipsType Complex Type

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, as specified in [MS-OXWSCDATA] section 2.2.4.17.

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

The following table lists the child elements of the GetMailTipsType complex type.

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SendingAs</td>
<td>t:EmailAddressType ([MS-OXWSCDATA] section 2.2.4.31)</td>
<td>Specifies an email address that defines who the user is trying to send as.</td>
</tr>
<tr>
<td>Recipients</td>
<td>t:ArrayOfRecipientsType ([MS-OXWSCDATA] section 2.2.4.11)</td>
<td>Contains a list of recipients to check for mail tips.</td>
</tr>
<tr>
<td>MailTipsRequested</td>
<td>t:MailTipTypes ([section 3.1.4.1.4.1])</td>
<td>Contains the types of mail tips requested from the service.</td>
</tr>
</tbody>
</table>

### 3.1.4.1.3.4 t:MailTips Complex Type

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

```xml
<xs:complexType name="MailTips">
  <xs:sequence>
    <xs:element name="RecipientAddress" type="t:EmailAddressType" minOccurs="1" maxOccurs="1"/>
    <xs:element name="PendingMailTips" type="t:MailTipTypes" minOccurs="0" maxOccurs="1"/>
    <xs:element name="OutOfOffice" type="t:OutOfOfficeMailTip" minOccurs="0" maxOccurs="1"/>
    <xs:element name="MailboxFull" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="CustomMailTip" type="xs:string" minOccurs="0" maxOccurs="1"/>
    <xs:element name="TotalMemberCount" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```
The following table lists the child elements of the **MailTips** complex type.

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RecipientAddress</td>
<td>t:EmailAddressType</td>
<td>Specifies the mailbox of the recipient.</td>
</tr>
<tr>
<td></td>
<td>(MS-OXWSCDATA section 2.2.4.31)</td>
<td></td>
</tr>
<tr>
<td>PendingMailTips</td>
<td>t:MailTipTypes</td>
<td>Indicates that the mail tips in this element could not be evaluated before the server's processing timeout expired.</td>
</tr>
<tr>
<td></td>
<td>(section 3.1.4.1.4.1)</td>
<td></td>
</tr>
<tr>
<td>OutOfOffice</td>
<td>t:OutOfOfficeMailTip</td>
<td>Specifies the response message for OOF and the duration for sending this message.</td>
</tr>
<tr>
<td></td>
<td>(section 3.1.4.1.3.6)</td>
<td></td>
</tr>
<tr>
<td>MailboxFull</td>
<td>xs:boolean [XMLSCHEMA2]</td>
<td>Specifies whether the mailbox for the recipient is full. Returns &quot;true&quot; if the mailbox is full; otherwise, returns &quot;false&quot;.</td>
</tr>
<tr>
<td>CustomMailTip</td>
<td>xs:string [XMLSCHEMA2]</td>
<td>Specifies a custom mail tip. For an example of a custom mail tip, see section 4.2.</td>
</tr>
<tr>
<td>TotalMemberCount</td>
<td>xs:int [XMLSCHEMA2]</td>
<td>Specifies the total number of members in a group. This value MUST be a non-negative integer.</td>
</tr>
<tr>
<td>ExternalMemberCount</td>
<td>xs:int</td>
<td>Specifies the number of external members in a group. This value MUST be a non-negative integer.</td>
</tr>
<tr>
<td>MaxMessageSize</td>
<td>xs:int</td>
<td>Specifies the maximum message size the recipient can accept. This value MUST be a non-negative integer.</td>
</tr>
<tr>
<td>DeliveryRestricted</td>
<td>xs:boolean</td>
<td>Indicates whether delivery constraints will prevent the sender's message from reaching the recipient. Returns &quot;true&quot; if the delivery is restricted; otherwise, returns &quot;false&quot;.</td>
</tr>
<tr>
<td>IsModerated</td>
<td>xs:boolean</td>
<td>Specifies whether the recipient's mailbox is being moderated. Returns &quot;true&quot; if the mailbox is moderated; otherwise, returns &quot;false&quot;.</td>
</tr>
<tr>
<td>InvalidRecipient</td>
<td>xs:boolean</td>
<td>Specifies whether the recipient is not valid. Returns &quot;true&quot; if the recipient is not valid; otherwise, returns &quot;false&quot;.</td>
</tr>
<tr>
<td>Scope</td>
<td>xs:int</td>
<td>Specifies the relationship of the recipient to Active Directory.</td>
</tr>
</tbody>
</table>

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When the **InvalidRecipient** element is sent by the server to the client, the server will indicate which of the given recipients are not valid. A recipient is considered "invalid" in the following cases:

- The recipient's address has a **RoutingType** ([MS-OXWSCDATA] section 2.2.4.31) of "EX" (Exchange Routing Type), an address internal to the server’s organization, 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.

The allowable values of the **Scope** element are described in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>2</td>
<td>Internal recipient</td>
</tr>
<tr>
<td>4</td>
<td>External recipient</td>
</tr>
<tr>
<td>8</td>
<td>External partner recipient</td>
</tr>
<tr>
<td>16</td>
<td>Non-external partner recipient</td>
</tr>
</tbody>
</table>

### 3.1.4.1.3.5  m:MailTipsResponseMessageType Complex Type

The **MailTipsResponseMessageType** complex type specifies mail tips settings. The **MailTipsResponseMessageType** complex type extends the **ResponseMessageType** complex type ([MS-OXWSCDATA] section 2.2.4.67).

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

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MailTips</td>
<td>t:MailTips (section 3.1.4.1.3.4)</td>
<td>Contains values for the mail tips service. This element is required. If no mail tips are enabled or defined, the <strong>RecipientAddress</strong> and <strong>PendingMailTips</strong> elements, as specified in section 3.1.4.1.3.4, are returned.</td>
</tr>
</tbody>
</table>

### 3.1.4.1.3.6  t:OutOfOfficeMailTip Complex Type
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 name="ReplyBody" type="t:ReplyBody"/>
    <xs:element name="Duration" type="t:Duration" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ReplyBody</td>
<td>t:ReplyBody ([MS-OXWSCDATA] section 2.2.4.65)</td>
<td>Contains the OOF message response.</td>
</tr>
<tr>
<td>Duration</td>
<td>t:Duration ([MS-OXWSCDATA] section 2.2.4.28)</td>
<td>Contains the start and end time for sending OOF messages. This element is optional. It is not returned if the time interval is not specified in the OOF message.</td>
</tr>
</tbody>
</table>

### 3.1.4.1.4 Simple Types

The following table lists the **XML schema** simple definitions that are specific to this operation.

<table>
<thead>
<tr>
<th>Simple type name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MailTipTypes</td>
<td>Specifies the types of mail tips that are supported by this service.</td>
</tr>
</tbody>
</table>

#### 3.1.4.1.4.1 t:MailTipTypes Simple Type

The **MailTipTypes** simple type describes the types of mail tips that are supported by the service.
<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Represents all available mail tips.</td>
</tr>
<tr>
<td>OutOfOfficeMessage</td>
<td>Represents the Out of Office (OOF) message.</td>
</tr>
<tr>
<td>MailboxFullStatus</td>
<td>Represents the status for a mailbox being full.</td>
</tr>
<tr>
<td>CustomMailTip</td>
<td>Represents a custom mail tip.</td>
</tr>
<tr>
<td>ExternalMemberCount</td>
<td>Represents the count of external members.</td>
</tr>
<tr>
<td>TotalMemberCount</td>
<td>Represents the count of all members.</td>
</tr>
<tr>
<td>MaxMessageSize</td>
<td>Represents the maximum message size a recipient can accept.</td>
</tr>
<tr>
<td>DeliveryRestriction</td>
<td>Indicates whether delivery constraints will prevent the sender's message from reaching the recipient.</td>
</tr>
<tr>
<td>ModerationStatus</td>
<td>Indicates whether the sender's message will be reviewed by a moderator.</td>
</tr>
<tr>
<td>InvalidRecipient</td>
<td>Indicates whether the recipient is not valid.</td>
</tr>
<tr>
<td>Scope</td>
<td>Indicates the relationship of the recipient to Active Directory.</td>
</tr>
</tbody>
</table>

### 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.
4 Protocol Examples

4.1 GetMailTips Request

The following example shows a GetMailTips operation request.

```xml
<?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 to a GetMailTips operation request.

```xml
<?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>
                    </m:MailTips>
                </MailTipsResponseMessageType>
            </ResponseMessages>
        </GetMailTipsResponse>
    </s:Body>
</s:Envelope>
```

<t:OutOfOffice xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <t:ReplyBody/>
  <t:Message/>
  </t:OutOfOffice>

<t:MailboxFull xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <t:MailTips/>
</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>

  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 Mail Tips Web Service Extensions do not use additional security mechanisms.

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 described in this document.

<table>
<thead>
<tr>
<th>File name</th>
<th>Description</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-OXWMT.wsdl</td>
<td>Contains the <strong>WSDL</strong> for the implementation of this protocol.</td>
<td>6</td>
</tr>
<tr>
<td>MS-OXWMT-messages.xsd</td>
<td>Contains the <strong>XML schema</strong> message definitions that are used in this protocol.</td>
<td>7.1</td>
</tr>
<tr>
<td>MS-OXWMT-types.xsd</td>
<td>Contains the XML schema type definitions that are used in this protocol.</td>
<td>7.2</td>
</tr>
</tbody>
</table>

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-OXWMT-types.xsd or MS-OXWMT-messages.xsd schemas have to be placed in the common folder along with the files listed in the table.

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

```xml
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsd1/soap/">
  <wsdl:types>
    <xs:schema id="messages" elementFormDefault="qualified" version="Exchange2016" 
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <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">
      <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>
```
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
Appendix B: Full XML Schema

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

<table>
<thead>
<tr>
<th>Schema name</th>
<th>Prefix</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages schema</td>
<td>m:</td>
<td>7.1</td>
</tr>
<tr>
<td>Types schema</td>
<td>t:</td>
<td>7.2</td>
</tr>
</tbody>
</table>

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-OXWMT-types.xsd or MS-OXWMT-messages.xsd schemas have to be placed in the common folder along with the files listed in the table.

7.1 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 has to be in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

<table>
<thead>
<tr>
<th>File name</th>
<th>Defining specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-OXWSCDATA-messages.xsd</td>
<td>[MS-OXWSCDATA] section 7.1</td>
</tr>
</tbody>
</table>

```xml
<?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="Exchange2016" 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="GetMailTipsType">
    <xs:complexContent>
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="SendingAs" type="t:EmailAddressType"/>
          <xs:element name="Recipients" type="t:ArrayOfRecipientsType"/>
          <xs:element name="MailTipsRequested" type="t:MailTipTypes"/>  
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetMailTips" type="m:GetMailTipsType"/>
  <xs:element name="GetMailTipsResponse" type="m:GetMailTipsResponseMessageType">
    <xs:complexType name="GetMailTipsResponseMessageType">
      <xs:complexContent>
        <xs:extension base="m:ResponseMessageType">
          <xs:sequence>
            <xs:element name="ResponseMessages" type="m:ArrayOfMailTipsResponseMessageType" minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>
</xs:schema>
```
7.2 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.

<table>
<thead>
<tr>
<th>File name</th>
<th>Defining specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-OXWSCDATA-types.xsd</td>
<td>[MS-OXWSCDATA] section 7.2</td>
</tr>
</tbody>
</table>

```xml
<?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="Exchange2016" 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:enumeration value="Scope"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:complexType name="OutOfOfficeMailTip">
    <xs:sequence>
      <xs:element name="ReplyBody" type="t:ReplyBody" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="MailTips">
    <xs:sequence>
      <xs:element name="RecipientAddress" type="t:EmailAddressType" minOccurs="1" maxOccurs="1"/>
      <xs:element name="PendingMailTips" type="t:MailTipTypes" minOccurs="0" maxOccurs="1"/>
      <xs:element name="OutOfOfficeMailTip" type="t:OutOfOfficeMailTip" minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```
<xs:complexType name="MailTips">
  <xs:sequence>
    <xs:element name="MailboxFull" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="CustomMailTip" type="xs:string" minOccurs="0" maxOccurs="1"/>
    <xs:element name="TotalMemberCount" type="xs:int" minOccurs="0" maxOccurs="1"/>
    <xs:element name="ExternalMemberCount" type="xs:int" minOccurs="0" maxOccurs="1"/>
    <xs:element name="MaxMessageSize" type="xs:int" minOccurs="0" maxOccurs="1"/>
    <xs:element name="DeliveryRestricted" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="IsModerated" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="InvalidRecipient" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="Scope" type="xs:int" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
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 updates to those products.

- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Exchange Server 2016
- Microsoft Outlook 2010
- Microsoft Outlook 2013
- Microsoft Outlook 2016
- Microsoft Exchange Server 2019
- Microsoft Outlook 2019
- Microsoft Outlook 2021

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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.
9 Change Tracking

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