[MS-OXWSCDATA]:
Common Web Service Data Types

Revision Summary

Date	Revision History	Revision Class	Comments
07/15/2009	1.0	Major	Initial Availability.
11/04/2009	2.0.0	Major	Updated and revised the technical content.
02/10/2010	2.1.0	Minor	Updated the technical content.
05/05/2010	3.0.0	Major	Updated and revised the technical content.
08/04/2010	4.0	Major	Significantly changed the technical content.

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Contents

1   Introduction

This document specifies the Web service data types that are common to more than one Web service protocol.

1.1   Glossary

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

Calendar folder
delegate
Deleted Items folder
distribution list
Drafts folder
folder
GUID
Hypertext Markup Language (HTML)
Inbox folder
Junk E-mail folder
mailbox
MIME
Outbox folder
plain text
property
public folder
Sent Items folder
Simple Mail Transfer Protocol (SMTP)
SOAP header
Uniform Resource Identifier (URI)
Web Services Description Language (WSDL)
XML
XML namespace
XML schema

The following terms are specific to this document:

real item: An item that can be stored in the mail server database, such as a calendar item, task, contact, and so on.

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-OXWSATT] Microsoft Corporation, "Attachment Handling Web Service Protocol Specification", July 2009.

[MS-OXWSBTRF] Microsoft Corporation, "Bulk Transfer Web Service Protocol Specification", May 2010.

[MS-OXWSCONV] Microsoft Corporation, "Conversations Web Service Protocol Specification", May 2010.

[MS-OXWSCORE] Microsoft Corporation, "Core Items Web Service Protocol Specification", July 2009.

[MS-OXWSCVTID] Microsoft Corporation, "Convert Item Identifier Web Service Protocol Specification", July 2009.

[MS-OXWSDLIST] Microsoft Corporation, "Distribution List Creation and Usage Web Service Protocol Specification", July 2009.

[MS-OXWSFOLD] Microsoft Corporation, "Folders and Folder Permissions Web Service Protocol Specification", July 2009.

[MS-OXWSGTRM] Microsoft Corporation, "Get Rooms List Web Service Protocol Specification", July 2009.

[MS-OXWSGTZ] Microsoft Corporation, "Get Server Time Zone Web Service Protocol Specification", July 2009.

[MS-OXWSMSG] Microsoft Corporation, "E-Mail Message Types Web Service Protocol Specification", July 2009.

[MS-OXWSMSHR] Microsoft Corporation, "Folder Sharing Web Service Protocol Specification", November 2009.

[MS-OXWSMTRK] Microsoft Corporation, "Message Tracking Web Service Protocol Specification", July 2009.

[MS-OXWSNTIF] Microsoft Corporation, "Notifications Web Service Protocol Specification", July 2009.

[MS-OXWSPSNTIF] Microsoft Corporation, "Push Notifications Web Service Protocol Specification", July 2009.

[MS-OXWSRSLNM] Microsoft Corporation, "Resolve Recipient Names Web Service Protocol Specification", July 2009.

[MS-OXWSSRCH] Microsoft Corporation, "Mailbox Search Web Service Protocol Specification", July 2009.

[MS-OXWSSYNC] Microsoft Corporation, "Mailbox Contents Synchronization Web Service Protocol Specification", July 2009.

[MS-OXWSTASK] Microsoft Corporation, "Tasks Web Service Protocol Specification", July 2009.

[MS-OXWSUSRCFG] Microsoft Corporation, "User Configuration Web Service Protocol Specification", 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

[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/

[XMLSCHEMA0] Fallside, D., and Walmsley, P., Eds., "XML Schema Part 0: Primer Second Edition", W3C Recommendation, October 2004, http://www.w3.org/TR/2004/REC-xmlschema-0-20041028/

[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

This specification defines the global elements, types, groups, and attribute groups that are common across the Web service protocols.

1.4   Relationship to Other Protocols

The information specified in this document applies to one or more Web service protocols.

1.5   Prerequisites/Preconditions

None.

1.6   Applicability Statement

The information in this specification applies to common Web service data types that are shared by two or more Web service protocols.

1.7   Versioning and Capability Negotiation

This specification does not cover versioning or capability negotiation.

1.8   Vendor-Extensible Fields

None.

1.9   Standards Assignments

None.

2 Messages

2.1 Transport

This document does not specify any transport-specific details.

2.2 Common Message Syntax

This section contains common definitions that are used by this specification. 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
m	http://schemas.microsoft.com/exchange/services/2006/messages	
t	http://schemas.microsoft.com/exchange/services/2006/types	
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	

2.2.2 Simple Types

2.2.2.1 t:BodyTypeResponseType Simple Type

The BodyTypeResponseType simple type specifies the body type that is returned.

```
<xs:simpleType name="BodyTypeResponseType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Best"
     />
    <xs:enumeration
      value="HTML"
     />
    <xs:enumeration
      value="Text"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **BodyTypeResponseType** simple type:

Value	Description
Best	Specifies that the response returns the richest available body content. This is useful if it is unknown whether the content is text or **HTML**.
HTML	Specifies that the response returns an item body as HTML.
Text	Specifies that the response returns an item body as **plain text**.

2.2.2.2   t:BodyTypeType Simple Type

The BodyTypeType simple type specifies the item body type.

```
<xs:simpleType name="BodyTypeType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="HTML"
     />
    <xs:enumeration
      value="Text"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **BodyTypeType** simple type:

Value	Description
HTML	Specifies the item body as HTML content.
Text	Specifies the item body as text content.

2.2.2.3   t:DayOfWeekIndexType Simple Type

The DayOfWeekIndexType simple type specifies which week in a month is used in a relative recurrence pattern.

```
<xs:simpleType name="DayOfWeekIndexType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="First"
     />
    <xs:enumeration
      value="Fourth"
     />
    <xs:enumeration
```

```
      value="Last"
     />
    <xs:enumeration
      value="Second"
     />
    <xs:enumeration
      value="Third"
     />
  </xs:restriction>
 </xs:simpleType>
```

Enumeration

The following values are defined by the **DayOfWeekIndexType** simple type:

Value	Description
First	Specifies that the first week in the month is used in the recurrence pattern.
Fourth	Specifies that the fourth week in the month is used in the recurrence pattern.
Last	Specifies that the last week in the month is used in the recurrence pattern.
Second	Specifies that the second week in the month is used in the recurrence pattern.
Third	Specifies that the third week in the month is used in the recurrence pattern.

2.2.2.4   t:DayOfWeekType Simple Type

The DayOfWeekType simple type specifies days of the week that are used in item recurrence patterns.

```
 <xs:simpleType name="DayOfWeekType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Day"
     />
    <xs:enumeration
      value="Friday"
     />
    <xs:enumeration
      value="Monday"
     />
    <xs:enumeration
      value="Saturday"
     />
    <xs:enumeration
      value="Sunday"
     />
    <xs:enumeration
      value="Thursday"
     />
    <xs:enumeration
```

```
           value="Tuesday"
        />
       <xs:enumeration
         value="Wednesday"
        />
       <xs:enumeration
         value="Weekday"
        />
       <xs:enumeration
         value="WeekendDay"
        />
      </xs:restriction>
    </xs:simpleType>
```

Enumeration

The following values are defined by the **DayOfWeekType** simple type:

Value	Description
Day	Identifies every day as part of the recurrence pattern. This value MUST NOT be used in the t:RelativeYearlyRecurrencePatternType (section 2.2.3.48) and t:WeeklyRecurrencePatternType (section 2.2.3.59) complex types.
Friday	Identifies Fridays as part of the recurrence pattern.
Monday	Identifies Mondays as part of the recurrence pattern.
Saturday	Identifies Saturdays as part of the recurrence pattern.
Sunday	Identifies Sundays as part of the recurrence pattern.
Thursday	Identifies Thursdays as part of the recurrence pattern.
Tuesday	Identifies Tuesdays as part of the recurrence pattern.
Wednesday	Identifies Wednesdays as part of the recurrence pattern.
Weekday	Identifies weekdays as part of the recurrence pattern. This value MUST NOT be used in the t:RelativeYearlyRecurrencePatternType (section 2.2.3.48) and t:WeeklyRecurrencePatternType (section 2.2.3.59) types.
WeekendDay	Identifies weekend days as part of the recurrence pattern. This value MUST NOT be used in the t:RelativeYearlyRecurrencePatternType (section 2.2.3.48) and t:WeeklyRecurrencePatternType (section 2.2.3.59) types.

2.2.2.5   t:DaysOfWeekType Simple Type

The DaysOfWeekType simple type specifies days of the week that are used in item recurrence patterns.

```
   <xs:simpleType name="DaysOfWeekType">
     <xs:list>
       <xs:itemType name="t:DayOfWeekType" />
     </xs:list>
```

```
    </xs:simpleType>
```

The values for this type are defined in section 2.2.2.4.

The following is the syntax for this type.

```
<xs:simpleType name="DaysOfWeekType">
  <xs:list itemType="t:DayOfWeekType" />
</xs:simpleType>
```

2.2.2.6   t:DefaultShapeNamesType Simple Type

The DefaultShapeNamesType simple type specifies standard sets of **properties** to return in an item or folder response.

```
<xs:simpleType name="DefaultShapeNamesType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="AllProperties"
     />
    <xs:enumeration
      value="Default"
     />
    <xs:enumeration
      value="IdOnly"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **DefaultShapeNamesType** simple type:

Value	Description
AllProperties	Specifies all the properties that are defined for the AllProperties shape. This option does not specify all available properties for an item or folder.
Default	Specifies a set of properties that are defined as the default for the item or folder.
IdOnly	Specifies only the item or folder ID.

2.2.2.7   t:DictionaryURIType Simple Type

The DictionaryURIType simple type specifies frequently referenced dictionary properties by **URI**.

```
<xs:simpleType name="DictionaryURIType">
  <xs:restriction
    base="xs:string"
```

```
    >
      <xs:enumeration
        value="contactsEmailAddress"
        />
      <xs:enumeration
        value="contactsImAddress"
        />
      <xs:enumeration
        value="contactsPhoneNumber"
        />
      <xs:enumeration
        value="contactsPhysicalAddressCity"
        />
      <xs:enumeration
        value="contactsPhysicalAddressCountryOrRegion"
        />
      <xs:enumeration
        value="contactsPhysicalAddressPostalCode"
        />
      <xs:enumeration
        value="contactsPhysicalAddressState"
        />
      <xs:enumeration
        value="contactsPhysicalAddressStreet"
        />
      <xs:enumeration
        value="itemInternetMessageHeader"
        />
    </xs:restriction>
  </xs:simpleType>
```

Enumeration

The following values are defined by the **DictionaryURIType** simple type:

Value	Description
contactsEmailAddress	Specifies the **EmailAddresses** property.
contactsImAddress	Specifies the **ImAddresses** property.
contactsPhoneNumber	Specifies the **PhoneNumbers** property.
contactsPhysicalAddressCity	Specifies the **PhysicalAddressCity** property.
contactsPhysicalAddressCountryOrRegion	Specifies the **PhysicalAddressCountryOrRegion** property.
contactsPhysicalAddressPostalCode	Specifies the **PhysicalAddressPostalCode** property.
contactsPhysicalAddressState	Specifies the **PhysicalAddressState** property.
contactsPhysicalAddressStreet	Specifies the **PhysicalAddressStreet** property.
itemInternetMessageHeader	Specifies the **InternetMessageHeader** property.

2.2.2.8   t:DisposalType Simple Type

The [DisposalType](#) simple type specifies how an item or **folder** is deleted.

```
<xs:simpleType name="DisposalType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="HardDelete"
     />
    <xs:enumeration
      value="MoveToDeletedItems"
     />
    <xs:enumeration
      value="SoftDelete"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **DisposalType** simple type:

Value	Description
HardDelete	Specifies that an item or folder is permanently removed from the store.
MoveToDeletedItems	Specifies that an item or folder is moved to the Deleted Items folder.
SoftDelete	Specifies that an item or folder is moved to the dumpster if the dumpster is enabled.

The [m:DeleteFolderType](#) ([\[MS-OXWSCORE\]](#) section 3.1.4.4.3.2) and [m:DeleteItemType](#) ([\[MS-OXWSCORE\]](#) section 3.1.4.3.1.2) complex types MUST specify a value for DisposalType.

2.2.2.9   t:DistinguishedFolderIdNameType Simple Type

The **DistinguishedFolderIdNameType** simple type specifies well-known folders that can be referenced by name.[<1>](#)

```
<xs:simpleType name="DistinguishedFolderIdNameType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="calendar"
     />
    <xs:enumeration
      value="contacts"
     />
    <xs:enumeration
      value="deleteditems"
     />
    <xs:enumeration
```

```
     value="drafts"
  />
<xs:enumeration
  value="inbox"
 />
<xs:enumeration
  value="journal"
 />
<xs:enumeration
  value="junkemail"
 />
<xs:enumeration
  value="msgfolderroot"
 />
<xs:enumeration
  value="notes"
 />
<xs:enumeration
  value="outbox"
 />
<xs:enumeration
  value="publicfoldersroot"
 />
<xs:enumeration
  value="root"
 />
<xs:enumeration
  value="searchfolders"
 />
<xs:enumeration
  value="sentitems"
 />
<xs:enumeration
  value="tasks"
 />
<xs:enumeration
  value="voicemail"
 />
<xs:enumeration
  value="recoverableitemsroot"
 />
<xs:enumeration
  value="recoverableitemsdeletions"
 />
<xs:enumeration
  value="recoverableitemsversions"
 />
<xs:enumeration
  value="recoverableitemspurges"
 />
<xs:enumeration
  value="archiveroot"
 />
<xs:enumeration
  value="archivemsgfolderroot"
 />
<xs:enumeration
  value="archivedeleteditems"
 />
```

```
          <xs:enumeration
           value="archiverecoverableitemsroot"
          />
          <xs:enumeration
           value="archiverecoverableitemsdeletions"
          />
          <xs:enumeration
           value="archiverecoverableitemsversions"
          />
          <xs:enumeration
           value="archiverecoverableitemspurges"
          />
      </xs:restriction>
   </xs:simpleType>
```

Enumeration

The following values are defined by the **DistinguishedFolderIdNameType** simple type:

Value	Description
calendar	Specifies the default **Calendar folder**.
contacts	Specifies the default Contacts folder.
deleteditems	Specifies the **Deleted Items folder**.
drafts	Specifies the **Drafts folder**.
inbox	Specifies the **Inbox folder**.
journal	Specifies the Journal folder.
junkemail	Specifies the **Junk E-mail folder**.
msgfolderroot	Specifies the message folder root.
notes	Specifies the Notes folder.
outbox	Specifies the **Outbox folder**.
publicfoldersroot	Specifies the root **public folder**.
root	Specifies the root of the **mailbox**.
searchfolders	Specifies the **Search Folders folder**.
sentitems	Specifies the **Sent Items folder**.
tasks	Specifies the Tasks folder.
voicemail	Specifies the Voice Mail folder.
recoverableitemsroot	Specifies the dumpster root folder.
recoverableitemsdeletions	Specifies the dumpster deletions folder.

Value	Description
recoverableitemsversions	Specifies the dumpster versions folder.
recoverableitemspurges	Specifies the dumpster purges folder.
archiveroot	Specifies the root archive folder.
archivemsgfolderroot	Specifies the root archive message folder.
archivedeleteditems	Specifies the archive Deleted Items folder.
archiverecoverableitemsroot	Specifies the archive recoverable items root folder.
archiverecoverableitemsdeletions	Specifies the archive recoverable items deletions folder.
archiverecoverableitemsversions	Specifies the archive recoverable items versions folder.
archiverecoverableitemspurges	Specifies the archive recoverable items purges folder.

2.2.2.10   t:DistinguishedPropertySetType Simple Type

The DistinguishedPropertySetType simple type specifies the well-known property set IDs for extended properties.

```
<xs:simpleType name="DistinguishedPropertySetType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Address"
     />
    <xs:enumeration
      value="Appointment"
     />
    <xs:enumeration
      value="CalendarAssistant"
     />
    <xs:enumeration
      value="Common"
     />
    <xs:enumeration
      value="InternetHeaders"
     />
    <xs:enumeration
      value="Meeting"
     />
    <xs:enumeration
      value="PublicStrings"
     />
    <xs:enumeration
      value="Task"
     />
    <xs:enumeration
      value="UnifiedMessaging"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **DistinguishedPropertySetType** simple type:

Value	Description
Address	Specifies the address property set ID by name.
Appointment	Specifies the appointment property set ID by name.
CalendarAssistant	Specifies the calendar assistant property set ID by name.
Common	Specifies the common property set ID by name.
InternetHeaders	Specifies the Internet headers property set ID by name.
Meeting	Specifies the meeting property set ID by name.
PublicStrings	Specifies the public strings property set ID by name.
Task	Specifies the task property set ID by name.
UnifiedMessaging	Specifies the Unified Messaging property set ID by name.

2.2.2.11 t:DistinguishedUserType Simple Type

The **DistinguishedUserType** type specifies distinguished user accounts.

```
<xs:simpleType name="DistinguishedUserType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Default"
     />
    <xs:enumeration
      value="Anonymous"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **DistinguishedUserType** simple type:

Value	Description
Default	Specifies the default user account.
Anonymous	Specifies the anonymous user account.

2.2.2.12   t:ExceptionPropertyURIType Simple Type

The **ExceptionPropertyURIType** type specifies an offending property path in an error.

```
<xs:simpleType name="ExceptionPropertyURIType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="attachmentContent"
     />
    <xs:enumeration
      value="attachmentContentType"
     />
    <xs:enumeration
      value="attachmentName"
     />
    <xs:enumeration
      value="recurrenceDayOfMonth"
     />
    <xs:enumeration
      value="recurrenceDayOfWeekIndex"
     />
    <xs:enumeration
      value="recurrenceDaysOfWeek"
     />
    <xs:enumeration
      value="recurrenceInterval"
     />
    <xs:enumeration
      value="recurrenceMonth"
     />
    <xs:enumeration
      value="recurrenceNumberOfOccurrences"
     />
    <xs:enumeration
      value="timezoneOffset"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **ExceptionPropertyURIType** simple type:

Value	Description
attachmentContent	Specifies that the attachment **Content** property contains an error.
attachmentContentType	Specifies that the attachment **ContentType** property contains an error.
attachmentName	Specifies that the attachment **Name** property contains an error.
recurrenceDayOfMonth	Specifies that the recurrence **DayOfMonth** property contains an error.

Value	Description
recurrenceDayOfWeekIndex	Specifies that the recurrence **DayOfWeekIndex** property contains an error.
recurrenceDaysOfWeek	Specifies that the recurrence **DaysOfWeek** property contains an error.
recurrenceInterval	Specifies that the recurrence **Interval** property contains an error.
recurrenceMonth	Specifies that the recurrence **Month** property contains an error.
recurrenceNumberOfOccurrences	Specifies that the recurrence **NumberOfOccurrences** property contains an error.
timezoneOffset	Specifies that the time zone **Offset** property contains an error.

2.2.2.13   t:ExchangeVersionType Simple Type

The **ExchangeVersionType** simple type specifies the schema version to target for a request.[2]

```
<xs:simpleType name="ExchangeVersionType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Exchange2007"
     />
    <xs:enumeration
      value="Exchange2007_SP1"
     />
    <xs:enumeration
      value="Exchange2010"
     />
    <xs:enumeration
      value="Exchange2010_SP1"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **ExchangeVersionType** simple type:

Value	Description
Exchange2007	Specifies the first version of the target Web service schema. [3]
Exchange2007_SP1	Specifies the second version of the target Web service schema. [4]
Exchange2010	Specifies the third version of the target Web service schema.[5]
Exchange2010_SP1	Specifies the fourth version of the target Web service schema.[6]

2.2.2.14   t:ExcludesAttributeType Simple Type

The **ExcludesAttributeType** type specifies a decimal or hexadecimal bitmask for an exclude restriction.

```
<xs:simpleType name="ExcludesAttributeType">
  <xs:restriction
    base="xs:string"
  >
    <xs:pattern
      value="((0x|0X)[0-9A-Fa-f]*)|([0-9]*)"
    />
  </xs:restriction>
</xs:simpleType>
```

Patterns

The following pattern is defined by the **ExcludesAttributeType** simple type:

```
((0x|0X)[0-9A-Fa-f]*)|([0-9]*)
```

2.2.2.15   t:LegacyFreeBusyType Simple Type

The **LegacyFreeBusyType** type specifies the **free/busy** status for calendar items and meeting requests.

```
<xs:simpleType name="LegacyFreeBusyType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Busy"
    />
    <xs:enumeration
      value="Free"
    />
    <xs:enumeration
      value="NoData"
    />
    <xs:enumeration
      value="OOF"
    />
    <xs:enumeration
      value="Tentative"
    />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **LegacyFreeBusyType** simple type:

Value	Description
Busy	Specifies the status as busy.
Free	Specifies the status as free.
NoData	Specifies that there is no data for that recipient.
OOF	Specifies the status as **Out of Office (OOF)**.
Tentative	Specifies the status as tentative.

2.2.2.16   t:MailboxTypeType Simple Type

The MailboxTypeType simple type specifies the type of mailbox that is represented by an e-mail address.

```
<xs:simpleType name="MailboxTypeType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Unknown"
     />
    <xs:enumeration
      value="OneOff"
     />
    <xs:enumeration
      value="Contact"
     />
    <xs:enumeration
      value="Mailbox"
     />
    <xs:enumeration
      value="PrivateDL"
     />
    <xs:enumeration
      value="PublicDL"
     />
    <xs:enumeration
      value="PublicFolder"
     />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **MailboxTypeType** simple type:

Value	Description
Unknown	Specifies an unknown type of mailbox.
OneOff	Specifies a one-off member of a personal **distribution list**.

Value	Description
Contact	Specifies contact in a user's mailbox.
Mailbox	Specifies a mail-enabled directory service object.
PrivateDL	Specifies a private distribution list in a user's mailbox.
PublicDL	Specifies a public distribution list.
PublicFolder	Specifies a public folder.

MailboxTypeType is used in the t:EmailAddressType (section 2.2.3.25) complex type.

2.2.2.17   t:MonthNamesType Simple Type

The **MonthNamesType** type specifies the month in which a yearly recurring item occurs.

```
<xs:simpleType name="MonthNamesType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="January"
     />
    <xs:enumeration
      value="February"
     />
    <xs:enumeration
      value="March"
     />
    <xs:enumeration
      value="April"
     />
    <xs:enumeration
      value="May"
     />
    <xs:enumeration
      value="June"
     />
    <xs:enumeration
      value="July"
     />
    <xs:enumeration
      value="August"
     />
    <xs:enumeration
      value="September"
     />
    <xs:enumeration
      value="October"
     />
    <xs:enumeration
      value="November"
     />
    <xs:enumeration
      value="December"
     />
```

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

Enumeration

The following values are defined by the **MonthNamesType** simple type:

Value	Description
January	Specifies that a yearly recurring item occurs in January.
February	Specifies that a yearly recurring item occurs in February.
March	Specifies that a yearly recurring item occurs in March.
April	Specifies that a yearly recurring item occurs in April.
May	Specifies that a yearly recurring item occurs in May.
June	Specifies that a yearly recurring item occurs in June.
July	Specifies that a yearly recurring item occurs in July.
August	Specifies that a yearly recurring item occurs in August.
September	Specifies that a yearly recurring item occurs in September.
October	Specifies that a yearly recurring item occurs in October.
November	Specifies that a yearly recurring item occurs in November.
December	Specifies that a yearly recurring item occurs in December.

2.2.2.18   t:NonEmptyStringType Simple Type

The NonEmptyStringType simple type specifies a string that MUST have a minimum of one character.

```
<xs:simpleType name="NonEmptyStringType">
  <xs:restriction
    base="xs:string"
  >
    <xs:minLength
      value="1"
     />
  </xs:restriction>
</xs:simpleType>
```

2.2.2.19   t:ResponseClassType Simple Type

The ResponseClassType simple type specifies the status states of a response.

```
<xs:simpleType name="ResponseClassType">
```

```
      <xs:restriction
        base="xs:string"
      >
        <xs:enumeration
          value="Error"
         />
        <xs:enumeration
          value="Success"
         />
        <xs:enumeration
          value="Warning"
         />
      </xs:restriction>
  </xs:simpleType>
```

Enumeration

The following values are defined by the **ResponseClassType** simple type:

Value	Description
Error	Specifies that the request could not be processed.
Success	Specifies that the request was successfully processed.
Warning	Specifies that an unusual situation was encountered during the processing of the request and the request was not processed successfully.

2.2.2.20   m:ResponseCodeType Simple Type

The **ResponseCodeType** simple type specifies status information for the request.<7>

```
  <xs:simpleType name="ResponseCodeType">
    <xs:restriction
      base="xs:string"
    >
      <xs:enumeration
        value="NoError"
       />
      <xs:enumeration
        value="ErrorAccessDenied"
       />
      <xs:enumeration
        value="ErrorAccessModeSpecified"
       />
      <xs:enumeration
        value="ErrorAccountDisabled"
       />
      <xs:enumeration
        value="ErrorAddDelegatesFailed"
       />
      <xs:enumeration
        value="ErrorAddressSpaceNotFound"
       />
      <xs:enumeration
```

```
       value="ErrorADOperation"
 />
<xs:enumeration
 value="ErrorADSessionFilter"
 />
<xs:enumeration
 value="ErrorADUnavailable"
 />
<xs:enumeration
 value="ErrorAffectedTaskOccurrencesRequired"
 />
<xs:enumeration
 value="ErrorAttachmentSizeLimitExceeded"
 />
<xs:enumeration
 value="ErrorBatchProcessingStopped"
 />
<xs:enumeration
 value="ErrorCalendarCannotMoveOrCopyOccurrence"
 />
<xs:enumeration
 value="ErrorCalendarCannotUpdateDeletedItem"
 />
<xs:enumeration
 value="ErrorCalendarCannotUseIdForOccurrenceId"
 />
<xs:enumeration
 value="ErrorCalendarCannotUseIdForRecurringMasterId"
 />
<xs:enumeration
 value="ErrorCalendarDurationIsTooLong"
 />
<xs:enumeration
 value="ErrorCalendarEndDateIsEarlierThanStartDate"
 />
<xs:enumeration
 value="ErrorCalendarFolderIsInvalidForCalendarView"
 />
<xs:enumeration
 value="ErrorCalendarInvalidAttributeValue"
 />
<xs:enumeration
 value="ErrorCalendarInvalidDayForTimeChangePattern"
 />
<xs:enumeration
 value="ErrorCalendarInvalidDayForWeeklyRecurrence"
 />
<xs:enumeration
 value="ErrorCalendarInvalidPropertyState"
 />
<xs:enumeration
 value="ErrorCalendarInvalidPropertyValue"
 />
<xs:enumeration
 value="ErrorCalendarInvalidRecurrence"
 />
<xs:enumeration
 value="ErrorCalendarInvalidTimeZone"
 />
```

```xml
<xs:enumeration
 value="ErrorCalendarIsCancelledForAccept"
 />
<xs:enumeration
 value="ErrorCalendarIsCancelledForDecline"
 />
<xs:enumeration
 value="ErrorCalendarIsCancelledForRemove"
 />
<xs:enumeration
 value="ErrorCalendarIsCancelledForTentative"
 />
<xs:enumeration
 value="ErrorCalendarIsDelegatedForAccept"
 />
<xs:enumeration
 value="ErrorCalendarIsDelegatedForDecline"
 />
<xs:enumeration
 value="ErrorCalendarIsDelegatedForRemove"
 />
<xs:enumeration
 value="ErrorCalendarIsDelegatedForTentative"
 />
<xs:enumeration
 value="ErrorCalendarIsNotOrganizer"
 />
<xs:enumeration
 value="ErrorCalendarIsOrganizerForAccept"
 />
<xs:enumeration
 value="ErrorCalendarIsOrganizerForDecline"
 />
<xs:enumeration
 value="ErrorCalendarIsOrganizerForRemove"
 />
<xs:enumeration
 value="ErrorCalendarIsOrganizerForTentative"
 />
<xs:enumeration
 value="ErrorCalendarOccurrenceIndexIsOutOfRecurrenceRange"
 />
<xs:enumeration
 value="ErrorCalendarOccurrenceIsDeletedFromRecurrence"
 />
<xs:enumeration
 value="ErrorCalendarOutOfRange"
 />
<xs:enumeration
 value="ErrorCalendarMeetingRequestIsOutOfDate"
 />
<xs:enumeration
 value="ErrorCalendarViewRangeTooBig"
 />
<xs:enumeration
 value="ErrorCallerIsInvalidADAccount"
 />
<xs:enumeration
 value="ErrorCannotCreateCalendarItemInNonCalendarFolder"
```

```xml
  />
<xs:enumeration
  value="ErrorCannotCreateContactInNonContactFolder"
 />
<xs:enumeration
  value="ErrorCannotCreatePostItemInNonMailFolder"
 />
<xs:enumeration
  value="ErrorCannotCreateTaskInNonTaskFolder"
 />
<xs:enumeration
  value="ErrorCannotDeleteObject"
 />
<xs:enumeration
  value="ErrorCannotOpenFileAttachment"
 />
<xs:enumeration
  value="ErrorCannotDeleteTaskOccurrence"
 />
<xs:enumeration
  value="ErrorCannotEmptyFolder"
 />
<xs:enumeration
  value="ErrorCannotSetCalendarPermissionOnNonCalendarFolder"
 />
<xs:enumeration
  value="ErrorCannotSetNonCalendarPermissionOnCalendarFolder"
 />
<xs:enumeration
  value="ErrorCannotSetPermissionUnknownEntries"
 />
<xs:enumeration
  value="ErrorCannotUseFolderIdForItemId"
 />
<xs:enumeration
  value="ErrorCannotUseItemIdForFolderId"
 />
<xs:enumeration
  value="ErrorChangeKeyRequired"
 />
<xs:enumeration
  value="ErrorChangeKeyRequiredForWriteOperations"
 />
<xs:enumeration
  value="ErrorClientDisconnected"
 />
<xs:enumeration
  value="ErrorConnectionFailed"
 />
<xs:enumeration
  value="ErrorContainsFilterWrongType"
 />
<xs:enumeration
  value="ErrorContentConversionFailed"
 />
<xs:enumeration
  value="ErrorCorruptData"
 />
<xs:enumeration
```

```
      value="ErrorCreateItemAccessDenied"
 />
<xs:enumeration
  value="ErrorCreateManagedFolderPartialCompletion"
 />
<xs:enumeration
  value="ErrorCreateSubfolderAccessDenied"
 />
<xs:enumeration
  value="ErrorCrossMailboxMoveCopy"
 />
<xs:enumeration
  value="ErrorCrossSiteRequest"
 />
<xs:enumeration
  value="ErrorDataSizeLimitExceeded"
 />
<xs:enumeration
  value="ErrorDataSourceOperation"
 />
<xs:enumeration
  value="ErrorDelegateAlreadyExists"
 />
<xs:enumeration
  value="ErrorDelegateCannotAddOwner"
 />
<xs:enumeration
  value="ErrorDelegateMissingConfiguration"
 />
<xs:enumeration
  value="ErrorDelegateNoUser"
 />
<xs:enumeration
  value="ErrorDelegateValidationFailed"
 />
<xs:enumeration
  value="ErrorDeleteDistinguishedFolder"
 />
<xs:enumeration
  value="ErrorDeleteItemsFailed"
 />
<xs:enumeration
  value="ErrorDistinguishedUserNotSupported"
 />
<xs:enumeration
  value="ErrorDistributionListMemberNotExist"
 />
<xs:enumeration
  value="ErrorDuplicateInputFolderNames"
 />
<xs:enumeration
  value="ErrorDuplicateUserIdsSpecified"
 />
<xs:enumeration
  value="ErrorEmailAddressMismatch"
 />
<xs:enumeration
  value="ErrorEventNotFound"
 />
```

```xml
<xs:enumeration
 value="ErrorExceededConnectionCount"
 />
<xs:enumeration
 value="ErrorExceededSubscriptionCount"
 />
<xs:enumeration
 value="ErrorExceededFindCountLimit"
 />
<xs:enumeration
 value="ErrorExpiredSubscription"
 />
<xs:enumeration
 value="ErrorExternalFacingCAS"
 />
<xs:enumeration
 value="ErrorFolderCorrupt"
 />
<xs:enumeration
 value="ErrorFolderNotFound"
 />
<xs:enumeration
 value="ErrorFolderPropertRequestFailed"
 />
<xs:enumeration
 value="ErrorFolderSave"
 />
<xs:enumeration
 value="ErrorFolderSaveFailed"
 />
<xs:enumeration
 value="ErrorFolderSavePropertyError"
 />
<xs:enumeration
 value="ErrorFolderExists"
 />
<xs:enumeration
 value="ErrorFreeBusyGenerationFailed"
 />
<xs:enumeration
 value="ErrorGetServerSecurityDescriptorFailed"
 />
<xs:enumeration
 value="ErrorImpersonateUserDenied"
 />
<xs:enumeration
 value="ErrorImpersonationDenied"
 />
<xs:enumeration
 value="ErrorImpersonationFailed"
 />
<xs:enumeration
 value="ErrorIncorrectSchemaVersion"
 />
<xs:enumeration
 value="ErrorIncorrectUpdatePropertyCount"
 />
<xs:enumeration
 value="ErrorIndividualMailboxLimitReached"
```

```
 />
<xs:enumeration
 value="ErrorInsufficientResources"
 />
<xs:enumeration
 value="ErrorInternalServerError"
 />
<xs:enumeration
 value="ErrorInternalServerTransientError"
 />
<xs:enumeration
 value="ErrorInvalidAccessLevel"
 />
<xs:enumeration
 value="ErrorInvalidArgument"
 />
<xs:enumeration
 value="ErrorInvalidAttachmentId"
 />
<xs:enumeration
 value="ErrorInvalidAttachmentSubfilter"
 />
<xs:enumeration
 value="ErrorInvalidAttachmentSubfilterTextFilter"
 />
<xs:enumeration
 value="ErrorInvalidAuthorizationContext"
 />
<xs:enumeration
 value="ErrorInvalidChangeKey"
 />
<xs:enumeration
 value="ErrorInvalidClientSecurityContext"
 />
<xs:enumeration
 value="ErrorInvalidCompleteDate"
 />
<xs:enumeration
 value="ErrorInvalidContactEmailAddress"
 />
<xs:enumeration
 value="ErrorInvalidContactEmailIndex"
 />
<xs:enumeration
 value="ErrorInvalidCrossForestCredentials"
 />
<xs:enumeration
 value="ErrorInvalidDelegatePermission"
 />
<xs:enumeration
 value="ErrorInvalidDelegateUserId"
 />
<xs:enumeration
 value="ErrorInvalidExcludesRestriction"
 />
<xs:enumeration
 value="ErrorInvalidExpressionTypeForSubFilter"
 />
<xs:enumeration
```

```
    value="ErrorInvalidExtendedProperty"
 />
<xs:enumeration
  value="ErrorInvalidExtendedPropertyValue"
 />
<xs:enumeration
  value="ErrorInvalidFolderId"
 />
<xs:enumeration
  value="ErrorInvalidFolderTypeForOperation"
 />
<xs:enumeration
  value="ErrorInvalidFractionalPagingParameters"
 />
<xs:enumeration
  value="ErrorInvalidFreeBusyViewType"
 />
<xs:enumeration
  value="ErrorInvalidId"
 />
<xs:enumeration
  value="ErrorInvalidIdEmpty"
 />
<xs:enumeration
  value="ErrorInvalidIdMalformed"
 />
<xs:enumeration
  value="ErrorInvalidIdMalformedEwsLegacyIdFormat"
 />
<xs:enumeration
  value="ErrorInvalidIdMonikerTooLong"
 />
<xs:enumeration
  value="ErrorInvalidIdNotAnItemAttachmentId"
 />
<xs:enumeration
  value="ErrorInvalidIdReturnedByResolveNames"
 />
<xs:enumeration
  value="ErrorInvalidIdStoreObjectIdTooLong"
 />
<xs:enumeration
  value="ErrorInvalidIdTooManyAttachmentLevels"
 />
<xs:enumeration
  value="ErrorInvalidIdXml"
 />
<xs:enumeration
  value="ErrorInvalidIndexedPagingParameters"
 />
<xs:enumeration
  value="ErrorInvalidInternetHeaderChildNodes"
 />
<xs:enumeration
  value="ErrorInvalidItemForOperationCreateItemAttachment"
 />
<xs:enumeration
  value="ErrorInvalidItemForOperationCreateItem"
 />
```

```
<xs:enumeration
 value="ErrorInvalidItemForOperationAcceptItem"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationDeclineItem"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationCancelItem"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationExpandDL"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationRemoveItem"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationSendItem"
 />
<xs:enumeration
 value="ErrorInvalidItemForOperationTentative"
 />
<xs:enumeration
 value="ErrorInvalidLogonType"
 />
<xs:enumeration
 value="ErrorInvalidMailbox"
 />
<xs:enumeration
 value="ErrorInvalidManagedFolderProperty"
 />
<xs:enumeration
 value="ErrorInvalidManagedFolderQuota"
 />
<xs:enumeration
 value="ErrorInvalidManagedFolderSize"
 />
<xs:enumeration
 value="ErrorInvalidMergedFreeBusyInterval"
 />
<xs:enumeration
 value="ErrorInvalidNameForNameResolution"
 />
<xs:enumeration
 value="ErrorInvalidOperation"
 />
<xs:enumeration
 value="ErrorInvalidNetworkServiceContext"
 />
<xs:enumeration
 value="ErrorInvalidOofParameter"
 />
<xs:enumeration
 value="ErrorInvalidPagingMaxRows"
 />
<xs:enumeration
 value="ErrorInvalidParentFolder"
 />
<xs:enumeration
 value="ErrorInvalidPercentCompleteValue"
```

```
   />
 <xs:enumeration
  value="ErrorInvalidPermissionSettings"
  />
 <xs:enumeration
  value="ErrorInvalidPhoneCallId"
  />
 <xs:enumeration
  value="ErrorInvalidPhoneNumber"
  />
 <xs:enumeration
  value="ErrorInvalidUserInfo"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyAppend"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyDelete"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyForExists"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyForOperation"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyRequest"
  />
 <xs:enumeration
  value="ErrorInvalidPropertySet"
  />
 <xs:enumeration
  value="ErrorInvalidPropertyUpdateSentMessage"
  />
 <xs:enumeration
  value="ErrorInvalidProxySecurityContext"
  />
 <xs:enumeration
  value="ErrorInvalidPullSubscriptionId"
  />
 <xs:enumeration
  value="ErrorInvalidPushSubscriptionUrl"
  />
 <xs:enumeration
  value="ErrorInvalidRecipients"
  />
 <xs:enumeration
  value="ErrorInvalidRecipientSubfilter"
  />
 <xs:enumeration
  value="ErrorInvalidRecipientSubfilterComparison"
  />
 <xs:enumeration
  value="ErrorInvalidRecipientSubfilterOrder"
  />
 <xs:enumeration
  value="ErrorInvalidRecipientSubfilterTextFilter"
  />
 <xs:enumeration
```

```
   value="ErrorInvalidReferenceItem"
 />
<xs:enumeration
 value="ErrorInvalidRequest"
 />
<xs:enumeration
 value="ErrorInvalidRestriction"
 />
<xs:enumeration
 value="ErrorInvalidRoutingType"
 />
<xs:enumeration
 value="ErrorInvalidScheduledOofDuration"
 />
<xs:enumeration
 value="ErrorInvalidSchemaVersionForMailboxVersion"
 />
<xs:enumeration
 value="ErrorInvalidSecurityDescriptor"
 />
<xs:enumeration
 value="ErrorInvalidSendItemSaveSettings"
 />
<xs:enumeration
 value="ErrorInvalidSerializedAccessToken"
 />
<xs:enumeration
 value="ErrorInvalidServerVersion"
 />
<xs:enumeration
 value="ErrorInvalidSid"
 />
<xs:enumeration
 value="ErrorInvalidSIPUri"
 />
<xs:enumeration
 value="ErrorInvalidSmtpAddress"
 />
<xs:enumeration
 value="ErrorInvalidSubfilterType"
 />
<xs:enumeration
 value="ErrorInvalidSubfilterTypeNotAttendeeType"
 />
<xs:enumeration
 value="ErrorInvalidSubfilterTypeNotRecipientType"
 />
<xs:enumeration
 value="ErrorInvalidSubscription"
 />
<xs:enumeration
 value="ErrorInvalidSubscriptionRequest"
 />
<xs:enumeration
 value="ErrorInvalidSyncStateData"
 />
<xs:enumeration
 value="ErrorInvalidTimeInterval"
 />
```

```xml
<xs:enumeration
  value="ErrorInvalidUserOofSettings"
 />
<xs:enumeration
  value="ErrorInvalidUserPrincipalName"
 />
<xs:enumeration
  value="ErrorInvalidUserSid"
 />
<xs:enumeration
  value="ErrorInvalidUserSidMissingUPN"
 />
<xs:enumeration
  value="ErrorInvalidValueForProperty"
 />
<xs:enumeration
  value="ErrorInvalidWatermark"
 />
<xs:enumeration
  value="ErrorIPGatewayNotFound"
 />
<xs:enumeration
  value="ErrorIrresolvableConflict"
 />
<xs:enumeration
  value="ErrorItemCorrupt"
 />
<xs:enumeration
  value="ErrorItemNotFound"
 />
<xs:enumeration
  value="ErrorItemPropertyRequestFailed"
 />
<xs:enumeration
  value="ErrorItemSave"
 />
<xs:enumeration
  value="ErrorItemSavePropertyError"
 />
<xs:enumeration
  value="ErrorLegacyMailboxFreeBusyViewTypeNotMerged"
 />
<xs:enumeration
  value="ErrorLocalServerObjectNotFound"
 />
<xs:enumeration
  value="ErrorLogonAsNetworkServiceFailed"
 />
<xs:enumeration
  value="ErrorMailboxConfiguration"
 />
<xs:enumeration
  value="ErrorMailboxDataArrayEmpty"
 />
<xs:enumeration
  value="ErrorMailboxDataArrayTooBig"
 />
<xs:enumeration
  value="ErrorMailboxLogonFailed"
```

```
  />
<xs:enumeration
 value="ErrorMailboxMoveInProgress"
 />
<xs:enumeration
 value="ErrorMailboxStoreUnavailable"
 />
<xs:enumeration
 value="ErrorMailRecipientNotFound"
 />
<xs:enumeration
 value="ErrorMailTipsDisabled"
 />
<xs:enumeration
 value="ErrorManagedFolderAlreadyExists"
 />
<xs:enumeration
 value="ErrorManagedFolderNotFound"
 />
<xs:enumeration
 value="ErrorManagedFoldersRootFailure"
 />
<xs:enumeration
 value="ErrorMeetingSuggestionGenerationFailed"
 />
<xs:enumeration
 value="ErrorMessageDispositionRequired"
 />
<xs:enumeration
 value="ErrorMessageSizeExceeded"
 />
<xs:enumeration
 value="ErrorMimeContentConversionFailed"
 />
<xs:enumeration
 value="ErrorMimeContentInvalid"
 />
<xs:enumeration
 value="ErrorMimeContentInvalidBase64String"
 />
<xs:enumeration
 value="ErrorMissingArgument"
 />
<xs:enumeration
 value="ErrorMissingEmailAddress"
 />
<xs:enumeration
 value="ErrorMissingEmailAddressForManagedFolder"
 />
<xs:enumeration
 value="ErrorMissingInformationEmailAddress"
 />
<xs:enumeration
 value="ErrorMissingInformationReferenceItemId"
 />
<xs:enumeration
 value="ErrorMissingItemForCreateItemAttachment"
 />
<xs:enumeration
```

```
     value="ErrorMissingManagedFolderId"
 />
<xs:enumeration
  value="ErrorMissingRecipients"
 />
<xs:enumeration
  value="ErrorMissingUserIdInformation"
 />
<xs:enumeration
  value="ErrorMoreThanOneAccessModeSpecified"
 />
<xs:enumeration
  value="ErrorMoveCopyFailed"
 />
<xs:enumeration
  value="ErrorMoveDistinguishedFolder"
 />
<xs:enumeration
  value="ErrorNameResolutionMultipleResults"
 />
<xs:enumeration
  value="ErrorNameResolutionNoMailbox"
 />
<xs:enumeration
  value="ErrorNameResolutionNoResults"
 />
<xs:enumeration
  value="ErrorNoApplicableProxyCASServersAvailable"
 />
<xs:enumeration
  value="ErrorNoCalendar"
 />
<xs:enumeration
  value="ErrorNoDestinationCASDueToKerberosRequirements"
 />
<xs:enumeration
  value="ErrorNoDestinationCASDueToSSLRequirements"
 />
<xs:enumeration
  value="ErrorNoDestinationCASDueToVersionMismatch"
 />
<xs:enumeration
  value="ErrorNoFolderClassOverride"
 />
<xs:enumeration
  value="ErrorNoFreeBusyAccess"
 />
<xs:enumeration
  value="ErrorNonExistentMailbox"
 />
<xs:enumeration
  value="ErrorNonPrimarySmtpAddress"
 />
<xs:enumeration
  value="ErrorNoPropertyTagForCustomProperties"
 />
<xs:enumeration
  value="ErrorNoPublicFolderReplicaAvailable"
 />
```

```xml
<xs:enumeration
  value="ErrorNoPublicFolderServerAvailable"
 />
<xs:enumeration
  value="ErrorNoRespondingCASInDestinationSite"
 />
<xs:enumeration
  value="ErrorNotDelegate"
 />
<xs:enumeration
  value="ErrorNotEnoughMemory"
 />
<xs:enumeration
  value="ErrorObjectTypeChanged"
 />
<xs:enumeration
  value="ErrorOccurrenceCrossingBoundary"
 />
<xs:enumeration
  value="ErrorOccurrenceTimeSpanTooBig"
 />
<xs:enumeration
  value="ErrorOperationNotAllowedWithPublicFolderRoot"
 />
<xs:enumeration
  value="ErrorParentFolderIdRequired"
 />
<xs:enumeration
  value="ErrorParentFolderNotFound"
 />
<xs:enumeration
  value="ErrorPasswordChangeRequired"
 />
<xs:enumeration
  value="ErrorPasswordExpired"
 />
<xs:enumeration
  value="ErrorPhoneNumberNotDialable"
 />
<xs:enumeration
  value="ErrorPropertyUpdate"
 />
<xs:enumeration
  value="ErrorPropertyValidationFailure"
 />
<xs:enumeration
  value="ErrorProxiedSubscriptionCallFailure"
 />
<xs:enumeration
  value="ErrorProxyCallFailed"
 />
<xs:enumeration
  value="ErrorProxyGroupSidLimitExceeded"
 />
<xs:enumeration
  value="ErrorProxyRequestNotAllowed"
 />
<xs:enumeration
  value="ErrorProxyRequestProcessingFailed"
```

```
 />
<xs:enumeration
 value="ErrorProxyServiceDiscoveryFailed"
 />
<xs:enumeration
 value="ErrorProxyTokenExpired"
 />
<xs:enumeration
 value="ErrorPublicFolderRequestProcessingFailed"
 />
<xs:enumeration
 value="ErrorPublicFolderServerNotFound"
 />
<xs:enumeration
 value="ErrorQueryFilterTooLong"
 />
<xs:enumeration
 value="ErrorQuotaExceeded"
 />
<xs:enumeration
 value="ErrorReadEventsFailed"
 />
<xs:enumeration
 value="ErrorReadReceiptNotPending"
 />
<xs:enumeration
 value="ErrorRecurrenceEndDateTooBig"
 />
<xs:enumeration
 value="ErrorRecurrenceHasNoOccurrence"
 />
<xs:enumeration
 value="ErrorRemoveDelegatesFailed"
 />
<xs:enumeration
 value="ErrorRequestAborted"
 />
<xs:enumeration
 value="ErrorRequestStreamTooBig"
 />
<xs:enumeration
 value="ErrorRequiredPropertyMissing"
 />
<xs:enumeration
 value="ErrorResolveNamesInvalidFolderType"
 />
<xs:enumeration
 value="ErrorResolveNamesOnlyOneContactsFolderAllowed"
 />
<xs:enumeration
 value="ErrorResponseSchemaValidation"
 />
<xs:enumeration
 value="ErrorRestrictionTooLong"
 />
<xs:enumeration
 value="ErrorRestrictionTooComplex"
 />
<xs:enumeration
```

```
       value="ErrorResultSetTooBig"
 />
<xs:enumeration
  value="ErrorInvalidExchangeImpersonationHeaderData"
 />
<xs:enumeration
  value="ErrorSavedItemFolderNotFound"
 />
<xs:enumeration
  value="ErrorSchemaValidation"
 />
<xs:enumeration
  value="ErrorSearchFolderNotInitialized"
 />
<xs:enumeration
  value="ErrorSendAsDenied"
 />
<xs:enumeration
  value="ErrorSendMeetingCancellationsRequired"
 />
<xs:enumeration
  value="ErrorSendMeetingInvitationsOrCancellationsRequired"
 />
<xs:enumeration
  value="ErrorSendMeetingInvitationsRequired"
 />
<xs:enumeration
  value="ErrorSentMeetingRequestUpdate"
 />
<xs:enumeration
  value="ErrorSentTaskRequestUpdate"
 />
<xs:enumeration
  value="ErrorServerBusy"
 />
<xs:enumeration
  value="ErrorServiceDiscoveryFailed"
 />
<xs:enumeration
  value="ErrorStaleObject"
 />
<xs:enumeration
  value="ErrorSubmissionQuotaExceeded"
 />
<xs:enumeration
  value="ErrorSubscriptionAccessDenied"
 />
<xs:enumeration
  value="ErrorSubscriptionDelegateAccessNotSupported"
 />
<xs:enumeration
  value="ErrorSubscriptionNotFound"
 />
<xs:enumeration
  value="ErrorSubscriptionUnsubscribed"
 />
<xs:enumeration
  value="ErrorSyncFolderNotFound"
 />
```

```
<xs:enumeration
 value="ErrorTimeIntervalTooBig"
 />
<xs:enumeration
 value="ErrorTimeoutExpired"
 />
<xs:enumeration
 value="ErrorTimeZone"
 />
<xs:enumeration
 value="ErrorToFolderNotFound"
 />
<xs:enumeration
 value="ErrorTokenSerializationDenied"
 />
<xs:enumeration
 value="ErrorUpdatePropertyMismatch"
 />
<xs:enumeration
 value="ErrorUnifiedMessagingDialPlanNotFound"
 />
<xs:enumeration
 value="ErrorUnifiedMessagingRequestFailed"
 />
<xs:enumeration
 value="ErrorUnifiedMessagingServerNotFound"
 />
<xs:enumeration
 value="ErrorUnableToGetUserOofSettings"
 />
<xs:enumeration
 value="ErrorUnsupportedSubFilter"
 />
<xs:enumeration
 value="ErrorUnsupportedCulture"
 />
<xs:enumeration
 value="ErrorUnsupportedMapiPropertyType"
 />
<xs:enumeration
 value="ErrorUnsupportedMimeConversion"
 />
<xs:enumeration
 value="ErrorUnsupportedPathForQuery"
 />
<xs:enumeration
 value="ErrorUnsupportedPathForSortGroup"
 />
<xs:enumeration
 value="ErrorUnsupportedPropertyDefinition"
 />
<xs:enumeration
 value="ErrorUnsupportedQueryFilter"
 />
<xs:enumeration
 value="ErrorUnsupportedRecurrence"
 />
<xs:enumeration
 value="ErrorUnsupportedTypeForConversion"
```

```
 />
<xs:enumeration
  value="ErrorUpdateDelegatesFailed"
 />
<xs:enumeration
  value="ErrorUserNotUnifiedMessagingEnabled"
 />
<xs:enumeration
  value="ErrorVoiceMailNotImplemented"
 />
<xs:enumeration
  value="ErrorValueOutOfRange"
 />
<xs:enumeration
  value="ErrorVirusDetected"
 />
<xs:enumeration
  value="ErrorVirusMessageDeleted"
 />
<xs:enumeration
  value="ErrorWebRequestInInvalidState"
 />
<xs:enumeration
  value="ErrorWin32InteropError"
 />
<xs:enumeration
  value="ErrorWorkingHoursSaveFailed"
 />
<xs:enumeration
  value="ErrorWorkingHoursXmlMalformed"
 />
<xs:enumeration
  value="ErrorWrongServerVersion"
 />
<xs:enumeration
  value="ErrorWrongServerVersionDelegate"
 />
<xs:enumeration
  value="ErrorMissingInformationSharingFolderId"
 />
<xs:enumeration
  value="ErrorDuplicateSOAPHeader"
 />
<xs:enumeration
  value="ErrorSharingSynchronizationFailed"
 />
<xs:enumeration
  value="ErrorSharingNoExternalEwsAvailable"
 />
<xs:enumeration
  value="ErrorFreeBusyDLLimitReached"
 />
<xs:enumeration
  value="ErrorInvalidGetSharingFolderRequest"
 />
<xs:enumeration
  value="ErrorNotAllowedExternalSharingByPolicy"
 />
<xs:enumeration
```

```
     value="ErrorUserNotAllowedByPolicy"
 />
<xs:enumeration
 value="ErrorPermissionNotAllowedByPolicy"
 />
<xs:enumeration
 value="ErrorOrganizationNotFederated"
 />
<xs:enumeration
 value="ErrorMailboxFailover"
 />
<xs:enumeration
 value="ErrorInvalidExternalSharingInitiator"
 />
<xs:enumeration
 value="ErrorMessageTrackingPermanentError"
 />
<xs:enumeration
 value="ErrorMessageTrackingTransientError"
 />
<xs:enumeration
 value="ErrorMessageTrackingNoSuchDomain"
 />
<xs:enumeration
 value="ErrorUserWithoutFederatedProxyAddress"
 />
<xs:enumeration
 value="ErrorInvalidOrganizationRelationshipForFreeBusy"
 />
<xs:enumeration
 value="ErrorInvalidFederatedOrganizationId"
 />
<xs:enumeration
 value="ErrorInvalidExternalSharingSubscriber"
 />
<xs:enumeration
 value="ErrorInvalidSharingData"
 />
<xs:enumeration
 value="ErrorInvalidSharingMessage"
 />
<xs:enumeration
 value="ErrorNotSupportedSharingMessage"
 />
<xs:enumeration
 value="ErrorApplyConversationActionFailed"
 />
<xs:enumeration
 value="ErrorInboxRulesValidationError"
 />
<xs:enumeration
 value="ErrorOutlookRuleBlobExists"
 />
<xs:enumeration
 value="ErrorRulesOverQuota"
 />
<xs:enumeration
 value="ErrorNewEventStreamConnectionOpened"
 />
```

```
      <xs:enumeration
        value="ErrorMissedNotificationEvents"
      />
   </xs:restriction>
 </xs:simpleType>
```

Enumeration

The following values are defined by the **ResponseCodeType** simple type:

Value	Description
NoError	Specifies that no errors occurred.
ErrorAccessDenied	Specifies that the calling account does not have the rights to perform the action requested.
ErrorAccessModeSpecified	This error is for internal use only. This error is not returned.
ErrorAccountDisabled	Specifies that the account has been disabled.
ErrorAddDelegatesFailed	Occurs when a list with added delegates cannot be saved.
ErrorAddressSpaceNotFound	Specifies that the address space record, or Domain Name System (DNS) domain name, for cross-forest availability could not be found in the directory service.
ErrorADOperation	Specifies that the operation failed because of communication problems with the directory service.
ErrorADSessionFilter	Specifies that the **ResolveNames** operation ([MS-OXWSRSLNM] section 3.1.4.1) request specifies an invalid name.
ErrorADUnavailable	Specifies that the directory service is unavailable. Try your request again later.
ErrorAffectedTaskOccurrencesRequired	Specifies that the AffectedTaskOccurrences property value is missing. This value is required when you are deleting a task.
ErrorAttachmentSizeLimitExceeded	Specifies that the size of the attachment exceeds Int32.MaxValue, in bytes. This response code is applicable to the CreateAttachment and GetAttachment methods.
ErrorBatchProcessingStopped	Specifies that the previous item in the request failed in such a way that Exchange Web Services stopped processing the remaining items in the request. All remaining items are marked with the ErrorBatchProcessingStopped error.
ErrorCalendarCannotMoveOrCopyOccurrence	Specifies that an attempt was made to move or copy an occurrence of a recurring calendar item.
ErrorCalendarCannotUpdateDeletedItem	Specifies that an attempt was made to update a calendar item that is located in the Deleted Items folder, and the update in question would send out a meeting invite.
ErrorCalendarCannotUseIdForOccurrenceId	Specifies that the OccurrenceId does not correspond to a valid occurrence of the recurringMasterId.

Value	Description
ErrorCalendarCannotUseIdForRecurringMasterId	Specifies that the recurringMasterId does not correspond to a valid occurrence of the OccurrenceId.
ErrorCalendarDurationIsTooLong	Specifies that the item duration of a calendar item exceeds five years.
ErrorCalendarEndDateIsEarlierThanStartDate	Specifies that the end date/time must be changed so that it is greater than the start date/time.
ErrorCalendarFolderIsInvalidForCalendarView	Specifies that the find operation that is using the CalendarViewType object is not for a calendar folder.
ErrorCalendarInvalidAttributeValue	This response code is not used.
ErrorCalendarInvalidDayForTimeChangePattern	Specifies that invalid values of Day, WeekDay, and WeekendDay were used to define the time change pattern.
ErrorCalendarInvalidDayForWeeklyRecurrence	Specifies that invalid values of Day, WeekDay, and WeekendDay were used to specify the weekly recurrence.
ErrorCalendarInvalidPropertyState	Specifies that the state of the calendar item recurrence binary large object (BLOB) in the Exchange store is invalid.
ErrorCalendarInvalidPropertyValue	This response code is not used.
ErrorCalendarInvalidRecurrence	Specifies that the internal structure of the objects that represent the recurrence is invalid.
ErrorCalendarInvalidTimeZone	Specifies that an invalid time zone was encountered.
ErrorCalendarIsCancelledForAccept	Specifies that a calendar item has been cancelled. This error code MUST be returned when responding to a meeting request with an t:AcceptItemType response object after a meeting has been cancelled.
ErrorCalendarIsCancelledForDecline	Specifies that a calendar item has been cancelled. This error code MUST be returned when responding to a meeting request with a t:DeclineItemType response object after a meeting has been cancelled.
ErrorCalendarIsCancelledForRemove	Specifies that a calendar item has been cancelled. This error code MUST be returned when responding to a meeting request with a t:RemoveItemType response object after a meeting has been cancelled.
ErrorCalendarIsCancelledForTentative	Specifies that a calendar item has been cancelled. This error code MUST be returned when responding to a meeting request with a t:TentativelyAcceptItemType response object after a meeting has been cancelled.
ErrorCalendarIsDelegatedForAccept	Specifies that delegate access cannot be used to accept a meeting request.
ErrorCalendarIsDelegatedForDecline	Specifies that delegate access cannot be used to decline a meeting request.
ErrorCalendarIsDelegatedForRemove	Specifies that delegate access cannot be used to delete a meeting

Value	Description
	request.
ErrorCalendarIsDelegatedForTentative	Specifies that delegate access cannot be used to tentatively accept a meeting request.
ErrorCalendarIsNotOrganizer	Specifies that a meeting cannot be canceled by someone other than the organizer.
ErrorCalendarIsOrganizerForAccept	Specifies that the meeting organizer cannot accept the meeting. Only attendees can accept meeting requests.
ErrorCalendarIsOrganizerForDecline	Specifies that the meeting organizer cannot decline the meeting. Only attendees can decline meeting requests.
ErrorCalendarIsOrganizerForRemove	Specifies that the meeting organizer cannot remove a meeting from the calendar. The organizer can only remove the meeting by canceling the meeting. Only attendees can remove a calendar item.
ErrorCalendarIsOrganizerForTentative	Specifies that the meeting organizer cannot tentatively accept a meeting. Only attendees can tentatively accept meeting requests.
ErrorCalendarOccurrenceIndexIsOutOfRecurrenceRange	Occurs when the occurrence index that is specified in the OccurrenceId property does not correspond to a valid occurrence. For example, if your recurrence pattern defines a set of three meeting occurrences and you try to access the fifth occurrence.
ErrorCalendarOccurrenceIsDeletedFromRecurrence	Occurs when the occurrence index that is specified in the OccurrenceId property corresponds to a deleted instance.
ErrorCalendarOutOfRange	Occurs when a recurrence pattern is defined that contains a value for a month, day, or week that is out of range, such as the seventh week of the month.
ErrorCalendarMeetingRequestIsOutOfDate	Specifies that the calendar item associated with the meeting request has been updated since the meeting request was sent.
ErrorCalendarViewRangeTooBig	Occurs when the range for calendar paging is larger than two years.
ErrorCallerIsInvalidADAccount	Specifies that the requesting account is not a valid account in the directory database.
ErrorCannotCreateCalendarItemInNonCalendarFolder	Occurs when you are creating a calendar item and the SavedItemFolderId property refers to a non-calendar folder.
ErrorCannotCreateContactInNonContactFolder	Specifies that an attempt was made to create a contact in a non-contact folder.
ErrorCannotCreatePostItemInNonMailFolder	Specifies that a post item cannot be created in a Calendar, Contacts, Tasks, Notes, and so on folder. It can only be created in a Mail folder.
ErrorCannotCreateTaskInNonTaskFolder	Occurs when you are creating a Task and the SavedItemFolderId property refers to a non-task folder.
ErrorCannotDeleteObject	Specifies that the item or folder to delete cannot be deleted.

Value	Description
ErrorCannotOpenFileAttachment	Occurs when the attachment stream does not open.
ErrorCannotDeleteTaskOccurrence	Specifies that you cannot delete an occurrence of a nonrecurring task and you cannot delete the last occurrence of a recurring task.
ErrorCannotEmptyFolder	This error MUST be returned when the server cannot empty a folder.
ErrorCannotSetCalendarPermissionOnNonCalendarFolder	Specifies that the caller tried to set calendar permissions on a non-calendar folder.
ErrorCannotSetNonCalendarPermissionOnCalendarFolder	Specifies that the caller tried to set non-calendar permissions on a calendar folder.
ErrorCannotSetPermissionUnknownEntries	Specifies that you cannot set unknown permissions in a permissions set.
ErrorCannotUseFolderIdForItemId	Occurs when the ID that was passed represents a folder instead of an item.
ErrorCannotUseItemIdForFolderId	Occurs when the ID that was passed in represents an item instead of a folder.
ErrorChangeKeyRequired	This response code has been replaced by ErrorChangeKeyRequiredForWriteOperations.
ErrorChangeKeyRequiredForWriteOperations	Specifies that a valid change key must be provided when you are performing certain update operations.
ErrorClientDisconnected	Specifies that the client was disconnected.
ErrorConnectionFailed	Occurs when Exchange Web Services cannot connect to the mailbox.
ErrorContainsFilterWrongType	Specifies that the property inspected for a Contains filter is not a string type. This error code MUST be returned when a Contains filter is used with a property that is not a string type.
ErrorContentConversionFailed	Occurs when Exchange Web Services is unable to retrieve the Multipurpose Internet Mail Extensions (MIME) content for the item that was retrieved by the GetItem method, or is unable to create the item from the CreateItem method.
ErrorCorruptData	Specifies that the data is corrupted and cannot be processed.
ErrorCreateItemAccessDenied	Specifies that the caller does not have the right to create the item.
ErrorCreateManagedFolderPartialCompletion	Specifies that one or more of the managed folders that were passed to the CreateManagedFolder method failed to be created. Search for each folder to determine which folders were created and which folders do not exist.
ErrorCreateSubfolderAccessDenied	Specifies that the calling account does not have the proper rights to create the subfolder.

Value	Description
ErrorCrossMailboxMoveCopy	Specifies that the item or folder cannot be moved from one mailbox to another.
ErrorCrossSiteRequest	Specifies that the request is not allowed because the server that services the request is in a different site than the requested resource.
ErrorDataSizeLimitExceeded	Specifies that either the data that you were trying to set exceeded the maximum size for the property or the value is large enough to require streaming and the property does not support streaming, such as folder properties.
ErrorDataSourceOperation	Occurs when the underlying data provider failed to complete the operation.
ErrorDelegateAlreadyExists	Occurs in an AddDelegate method call when the specified user already exists in the list of delegates.
ErrorDelegateCannotAddOwner	Occurs in an AddDelegate method call when the specified user to be added is the owner of the mailbox.
ErrorDelegateMissingConfiguration	Occurs in a GetDelegate method call when either there is no delegate information on local FreeBusy message or no Active Directory public delegate (no "public delegate" or no "Send On Behalf" entry in Active Directory).
ErrorDelegateNoUser	Occurs when a specified user cannot be mapped to a user in Active Directory.
ErrorDelegateValidationFailed	Occurs in an AddDelegate method call when an added delegate user is not valid.
ErrorDeleteDistinguishedFolder	Specifies that you cannot delete a distinguished folder.
ErrorDeleteItemsFailed	This response code is not used.
ErrorDistinguishedUserNotSupported	Specifies that a distinguished user ID is not valid for the operation. DistinguishedUserType should not be present in the request.
ErrorDistributionListMemberNotExist	Specifies that a request distribution list member does not exist in the distribution list.
ErrorDuplicateInputFolderNames	Occurs when there are duplicate folder names in the array that was passed into the CreateManagedFolder method.
ErrorDuplicateUserIdsSpecified	Specifies that a duplicate user ID has been found in a permission set, that either Default or Anonymous are set more than once, or that there are duplicate SIDs or recipients.
ErrorEmailAddressMismatch	Occurs when the e-mail address for the distinguished folder ID does not match the mailbox that you are operating on. For example, you cannot create a search folder that exists in one mailbox but considers distinguished folders from another mailbox in its search criteria.
ErrorEventNotFound	Specifies that the subscription that was created with a particular

Value	Description
	watermark is no longer valid.
ErrorExceededConnectionCount	Specifies that there are more concurrent requests against the server than allowed by a user's policy. This error MUST be returned if there are more concurrent requests against the server than allowed by a user's policy.
ErrorExceededSubscriptionCount	Specifies that a user's throttling policy maximum subscription count has been exceeded. This error MUST be returned when a user's throttling policy maximum subscription count has been exceeded. Active subscriptions MUST be deleted before additional subscriptions can be created if this error occurs.
ErrorExceededFindCountLimit	Specifies that a search operation call has exceeded the total number of items that can be returned.
ErrorExpiredSubscription	Specifies that the subscription that is referenced by the GetEvents method has expired.
ErrorExternalFacingCAS	Specifies that a user's mailbox resides in a different Active Directory site and that the site contains an external facing server. This error code MUST be returned when a user's mailbox resides in a different Active Directory site and that the site contains an external facing server. The user MUST use the Autodiscover Publishing and Lookup SOAP-Based Web Service protocol [MS-OXWSADISC] to look up the correct server to connect to a mailbox.
ErrorFolderCorrupt	Specifies that the folder is corrupted and cannot be saved.
ErrorFolderNotFound	Specifies that the folder ID that was passed in does not correspond to a valid folder, or that the delegate does not have permissions to access the folder.
ErrorFolderPropertRequestFailed	Specifies that the requested property could not be retrieved. This does not indicate that the property does not exist, but that the property was corrupted in some way so that the retrieval failed.
ErrorFolderSave	Specifies that the folder could not be created or saved because of an invalid state.
ErrorFolderSaveFailed	Specifies that the folder could not be created or saved because of an invalid state.
ErrorFolderSavePropertyError	Specifies that the folder could not be created or updated because of invalid property values. The response code lists which properties caused the problem.
ErrorFolderExists	Specifies that a folder that has that name already exists. Duplicate folder names are not allowed within the same parent folder.
ErrorFreeBusyGenerationFailed	Occurs when free/busy information cannot be retrieved because of an intervening failure.
ErrorGetServerSecurityDescriptorFailed	This response code is not used.

Value	Description
ErrorImpersonateUserDenied	Specifies that the calling account does not have the ms-Exch-EPI-May-Impersonate right on either the user or contact that it is trying to impersonate or the mailbox database that contains the user mailbox. This response code is returned within a SOAP fault.
ErrorImpersonationDenied	Specifies that the calling account does not have the ms-Exch-EPI-Impersonation right on the Client Access server that it is calling. This response code is returned within a SOAP fault.
ErrorImpersonationFailed	Specifies that there was an unexpected error when an attempt was made to perform server-to-server authentication. This response code typically indicates either that the service account that is running the Exchange Web Services application pool is configured incorrectly, that Exchange Web Services cannot talk to the directory, or that a trust between forests is not correctly configured.
ErrorIncorrectSchemaVersion	Specifies that the request was valid for the current Exchange Server version but was invalid for the request server version that was specified.
ErrorIncorrectUpdatePropertyCount	Specifies that each change description in an UpdateItem or UpdateFolder method call must list only one property to update.
ErrorIndividualMailboxLimitReached	Occurs when the request contains too many attendees to resolve. By default, the maximum number of attendees to resolve is 100.
ErrorInsufficientResources	Specifies that the mailbox server is overloaded. Try your request again later.
ErrorInternalServerError	Specifies that Exchange Web Services encountered an error that it could not recover from, and no more specific response code is associated with the error that occurred.
ErrorInternalServerTransientError	Specifies that an internal server error occurred and that you should try your request again later.
ErrorInvalidAccessLevel	Specifies that the level of access that the caller has on the free/busy data is invalid.
ErrorInvalidArgument	Specifies an error caused by all invalid arguments passed to the **GetMessageTrackingReport** operation ([MS-OXWSMTRK] section 3.1.4.2). This error MUST be returned in the following scenarios: ▪ The user specified in the sending-as parameter does not exist in the directory. ▪ The user specified in the sending-as parameter is not unique in the directory. ▪ The sending-as address is empty. ▪ The sending-as address is not a valid email address.
ErrorInvalidAttachmentId	Specifies that the attachment was not found within the

Value	Description
	attachments collection for the item. For example, you may receive this response code if you have an attachment ID and then the attachment is deleted and you try to call the GetAttachment method on the attachment ID.
ErrorInvalidAttachmentSubfilter	Occurs when you try to bind to an existing search folder by using a complex attachment table restriction. Exchange Web Services only supports simple contains filters against the attachment table. If you try to bind to an existing search folder that has a more complex attachment table restriction (a subfilter), Exchange Web Services cannot render the XML for that filter and returns this response code. Note that you can still call the GetFolder method on the folder, but do not request the SearchParameters property.
ErrorInvalidAttachmentSubfilterTextFilter	Occurs when you try to bind to an existing search folder by using a complex attachment table restriction. Exchange Web Services only supports simple contains filters against the attachment table. If you try to bind to an existing search folder that has a more complex attachment table restriction, Exchange Web Services cannot render the XML for that filter. In this case, the attachment subfilter contains a text filter, but it is not looking at the attachment display name. Note that you can still call the GetFolder method on the folder, but do not request the SearchParameters property.
ErrorInvalidAuthorizationContext	Specifies a failure to proxy an availability request to a more applicable server.
ErrorInvalidChangeKey	Specifies that an invalid change key was passed in. Note that many methods do not require a change key to be passed. However, if you do provide a change key, it must be valid, although not necessarily up-to-date.
ErrorInvalidClientSecurityContext	Specifies that there was an internal error when an attempt was made to resolve the identity of the caller.
ErrorInvalidCompleteDate	Occurs when you try to set the CompleteDate of a task to a time in the future. When it is converted to the local time of the Client Access server, the CompleteDate cannot be set to a value that is later than the local time on the Client Access server.
ErrorInvalidContactEmailAddress	Specifies that an invalid e-mail address was provided for a contact.
ErrorInvalidContactEmailIndex	Specifies that an invalid e-mail index value was provided for an e-mail entry.
ErrorInvalidCrossForestCredentials	Occurs when an availability request is proxied to a Client Access server in another forest.
ErrorInvalidDelegatePermission	Specifies that the specified folder permissions are invalid.
ErrorInvalidDelegateUserId	Specifies that the specified delegate user ID is invalid.
ErrorInvalidExcludesRestriction	Specifies that the bitmask that was passed into the Excludes restriction was unable to be parsed.

Value	Description
ErrorInvalidExpressionTypeForSubFilter	This response code is not used.
ErrorInvalidExtendedProperty	Occurs when the combination of extended property values that was specified are invalid or result in an invalid extended property Uniform Resource Identifier (URI).
ErrorInvalidExtendedPropertyValue	Specifies that the value that was offered for the extended property is inconsistent with the type that was specified in the associated extended field URI. For example, if the PropertyType property on the extended field URI is set to String, but you set the value of the extended property as an array of integers, you will encounter this response code.
ErrorInvalidFolderId	Occurs when the folder ID is corrupted.
ErrorInvalidFolderTypeForOperation	Specifies that the specified folder type is invalid for the current operation. For example, you cannot create a Search folder in a public folder.
ErrorInvalidFractionalPagingParameters	Occurs in fractional paging when the user has specified one of the following: a numerator that is greater than the denominator, a numerator that is less than zero, or a denominator that is less than or equal to zero.
ErrorInvalidFreeBusyViewType	Occurs if a FreeBusyViewType of None is requested.
ErrorInvalidId	Specifies that the structure of the ID and/or change key is internally inconsistent.
ErrorInvalidIdEmpty	Specifies that the caller specified an ID that is empty.
ErrorInvalidIdMalformed	Specifies that the structure of the ID is internally inconsistent.
ErrorInvalidIdMalformedEwsLegacyIdFormat	Specifies that a folder or item ID that is using the Exchange 2007 format was specified for a request with a version of Exchange 2007 SP1 or later. You cannot use Exchange 2007 IDs in Exchange 2007 SP1 or later requests. You must use ConvertId to convert them first.
ErrorInvalidIdMonikerTooLong	Specifies that the structure of the ID is internally inconsistent. The moniker is contained within the ID and indicates which mailbox the ID belongs to. This response code is returned if the length of the moniker is checked and the byte count is longer than expected.
ErrorInvalidIdNotAnItemAttachmentId	Occurs when the AttachmentId property does not refer to an item attachment.
ErrorInvalidIdReturnedByResolveNames	Specifies that a contact in your mailbox is corrupt.
ErrorInvalidIdStoreObjectIdTooLong	Occurs when the structure of the ID is internally inconsistent.
ErrorInvalidIdTooManyAttachmentLevels	Specifies that the attachment hierarchies exceed the maximum of 255 levels deep.
ErrorInvalidIdXml	This response code is not used.

Value	Description
ErrorInvalidIndexedPagingParameters	Occurs if the offset for indexed paging is less than zero.
ErrorInvalidInternetHeaderChildNodes	This response code is not used.
ErrorInvalidItemForOperationCreateItemAttachment	Specifies that you tried to create an item attachment by using an unsupported item type. Supported item types for item attachments include ItemType, MessageType, CalendarItemType, TaskType, and ContactItemType objects. For example, if you try to create a MeetingMessage attachment, you will encounter this response code.
ErrorInvalidItemForOperationCreateItem	Specifies that you tried to create an unsupported item. Supported items include ItemType, MessageType, CalendarItemType, TaskType, and ContactItemType objects. For example, you cannot create a DistributionList by using the CreateItem method. In addition, certain types are created as a side effect of doing something else. MeetingMessages, for example, are created when you send a calendar item to attendees; they are not explicitly created.
ErrorInvalidItemForOperationAcceptItem	Occurs when an AcceptItemType object is created on something other than a meeting request or a calendar item, or when an attempt is made to accept a calendar item occurrence that is in the Deleted Items folder.
ErrorInvalidItemForOperationDeclineItem	Specifies that a DeclineItemType object was created on something other than a meeting request or a calendar item, or that you tried to decline a calendar item occurrence that is in the Deleted Items folder.
ErrorInvalidItemForOperationCancelItem	Occurs when a CancelCalendarItemType object is created for something other than a calendar item.
ErrorInvalidItemForOperationExpandDL	Occurs when the instance of the ExpandDLType class that was passed to the ExpandDL method does not represent a distribution list.
ErrorInvalidItemForOperationRemoveItem	Occurs when a RemoveItemType object is created for an item other than a meeting cancellation.
ErrorInvalidItemForOperationSendItem	Occurs if the SendItem method was attempted on an item other than a message item. Only items whose ItemClass property value begins with IPM.Note can be sent.
ErrorInvalidItemForOperationTentative	Occurs if a TentativelyAcceptItemType object was created on an item other than a calendar item or meeting request. Also occurs if the TentativelyAcceptItemType object was created for a calendar item occurrence that is in the Deleted Items folder.
ErrorInvalidLogonType	This error is for internal use only. This error is not returned.
ErrorInvalidMailbox	Specifies that the CreateItem or UpdateItem operation failed while creating or updating a personal distribution list. This error MUST be returned under the following conditions: ▪ A member is not accessible by using an item identifier to identify the member's mailbox. The following

Value	Description
	m:ResponseMessageType XML MUST be returned for this scenario:

```
<m:MessageText>Mailbox is invalid. Verify the
specified Mailbox property.</m:MessageText>
<m:ResponseCode>ErrorInvalidMailbox</m:Respons
eCode>
<m:MessageXml>
  <t:FieldURI
FieldURI="distributionlist:Members"/>
  <t:Value
Name="Inner.ResponseCode">ErrorNonExistentMail
box</t:Value>
  <t:Value Name="Inner.MessageText">No mailbox
with such guid.</t:Value>
</m:MessageXml>
```

- The specified identifier is for a private distribution list but the **MailboxTypeType** simple type (section 2.2.2.16) is not set to PrivateDL. The <MessageText> element of the **ResponseMessageType** complex type (section 2.2.3.52) MUST contain the following text: `MailboxType should be PrivateDL or not specified.`

- The specified identifier is for a database contact item but the contact does not have an e-mail address. The specified member's e-mail address, routing type, or name does not match to the corresponding properties of any contact's e-mail addresses. The <MessageText> element of the **ResponseMessageType** complex type (section 2.2.3.52) MUST contain the following text: `The contact address wasn't found.`

- The specified identifier is for a folder instead of a contact or private distribution list store item identifier. The following **ResponseMessageType** complex type (section 2.2.3.52) XML MUST be returned for this scenario:

```
<m:MessageText>Mailbox is invalid. Verify the
specified Mailbox property.</m:MessageText>
<m:ResponseCode>ErrorInvalidMailbox</m:Respons
eCode>
<m:MessageXml>
  <t:FieldURI
FieldURI="distributionlist:Members"/>
  <t:Value
Name="Inner.ResponseCode">ErrorCannotUseFolder
IdForItemId</t:Value>
  <t:Value Name="Inner.MessageText">Expected
an item Id but received a folder
Id.<</t:Value>
</m:MessageXml>
```

Value	Description

	■ The specified identifier does not represent either a contact or private distribution list. The following m:ResponseMessageType XML MUST be returned for this scenario where MemberIndex represents the index of the identifier that caused the error:
	
	`<m:MessageText>The ID of this item can't be used for a recipient, attendee, or group member.</m:MessageText>`
	`<m:ResponseCode>ErrorInvalidMailbox</m:ResponseCode>`
	`<m:MessageXml>`
	`    <t:FieldURI FieldURI="distributionlist:Members"/>`
	`    <t:Value Name="MemberIndex">7</t:Value>`
	`</m:MessageXml>`
	
	■ The mailbox is not specified by either an EmailAddress or ItemId element in the Mailbox element of the EmailAddressType. The following m:ResponseMessageType XML MUST be returned for this scenario where MemberIndex represents the index of the identifier that caused the error:
	
	`<m:MessageText>EmailAddress or ItemId must be included in the request.</m:MessageText>`
	`<m:ResponseCode>ErrorInvalidMailbox</m:ResponseCode>`
	`<m:MessageXml>`
	`    <t:FieldURI FieldURI="distributionlist:Members"/>`
	`    <t:Value Name="MemberIndex">0</t:Value>`
	`</m:MessageXml>`
	
	■ The member with the specified email address does not exist in the directory. The following m:ResponseMessageType XML MUST be returned for this scenario where MemberIndex represents the index of the identifier that caused the error:
	
	`<m:MessageText>Recipient is not found in Active Directory. Change MailboxType to OneOff or remove it.</m:MessageText>`
	`<m:ResponseCode>ErrorInvalidMailbox</m:ResponseCode>`
	`<m:MessageXml>`
	`    <t:FieldURI FieldURI="distributionlist:Members"/>`
	`    <t:Value Name="MemberIndex">1</t:Value>`
	`</m:MessageXml>`

Value	Description

	▪ A user with the specified email address does exists in the AD, but the specified MailboxType does match user type in the directory.
	
	The MessageXML element of the m:ResponseMessageType as specified in section 2.2.3.52, MUST contain the following XML when a member cannot be created or updated.
	
	``xml
	<m:MessageXml>
	  <t:FieldURI FieldURI="distributionlist:Members"/>
	  <t:Value Name="MemberIndex">4</t:Value>
	</m:MessageXml>
	``
	
	The MemberIndex value MUST specify the failing member from the either an UpdateItem or CreateItem request. The MemberIndex is a 0-based index.

ErrorInvalidManagedFolderProperty	Specifies that the structure of the managed folder is corrupted and cannot be rendered.
ErrorInvalidManagedFolderQuota	Specifies that the quota that is set on the managed folder is less than zero, which indicates a corrupted managed folder.
ErrorInvalidManagedFolderSize	Specifies that the size that is set on the managed folder is less than zero, which indicates a corrupted managed folder.
ErrorInvalidMergedFreeBusyInterval	Specifies that the supplied merged free/busy internal value is invalid. The default minimum value is 5 minutes. The default maximum value is 1440 minutes.
ErrorInvalidNameForNameResolution	Specifies that the name that was passed into the ResolveNames method was invalid. For example, a zero-length string, a single space, a comma, and a dash are all invalid names.
ErrorInvalidOperation	This is a general error that is used when the requested operation is invalid. For example, this error indicates any of the following:
ErrorInvalidNetworkServiceContext	Specifies an error in the Network Service account on the Client Access server.
ErrorInvalidOofParameter	This response code is not used.
ErrorInvalidPagingMaxRows	Specifies that zero rows or a negative value is specified as the maximum number of rows to be returned.
ErrorInvalidParentFolder	Specifies that you passed in an invalid parent folder for an operation, for example by creating a folder within a search folder.
ErrorInvalidPercentCompleteValue	Occurs if the percent complete property is set to a value that is not between 0 and 100 (inclusive).
ErrorInvalidPermissionSettings	Specifies that the permission level is inconsistent with the permission settings.
ErrorInvalidPhoneCallId	Specifies that the caller identifier is not valid.

Value	Description
ErrorInvalidPhoneNumber	Specifies that the phone number is not correct or does not fit the dial plan rules.

ErrorInvalidUserInfo	Specifies that a client sent an invalid folder permission request. This error code MUST be returned under the following conditions:
	
	▪ A user specifies a DistinguishedUser element of type t:DistinguishedUserType set to anonymous or default but then also provide either a SID, primary SMTP address or display name.
	
	▪ SID cannot be mapped to a user.
	
	▪ Primary SMTP address cannot be mapped to a user.
	
	▪ User specifies more than one mailbox by setting more than one of the following properties: SID, primary SMTP address, and display name.
	
	▪ An invalid SMTP address was provided for an external user.
	
	▪ The request doesn't specify a distinguished user, SID, primary SMTP address, display name, or external user.
	
	▪ The request specifies an identity that does not map to a user, group, or contact in the directory.
	
	▪ The provided user permission is a disabled user that had a SELF SID in the directory.
	
	▪ The request attempt to set the anonymous or default user permissions but the attempted permissions are not available on the folder.
	
	The MessageXML for an ErrorInvalidUserInfo response contains the SID and display name that MUST identify the user to be given permissions and the permission level that we attempted to be given to a user. The MessageXML can look like the following:
	
	`<m:MessageXml>`
	`   <t:InvalidPermission>`
	`      <t:Permission>`
	`         <t:UserId>`
	`            <t:SID>S-1-5-21-797165400-4101840936-`
	`1213943508-1116</t:SID>`
	`            <t:DisplayName>Christopher M.`
	`Simison</t:DisplayName>`
	`         </t:UserId>`
	`         <t:PermissionLevel>Owner</t:PermissionLevel>`
	`      </t:Permission>`
	`   </t:InvalidPermission>`
	`</m:MessageXml>`

ErrorInvalidPropertyAppend	Occurs if the property that you are trying to append to does not support appending. The following are the only properties that

Value	Description
	support appending: Recipient collections (To, Cc, Bcc), Attendee collections (Required, Optional, Resources), Body property, and ReplyTo.
ErrorInvalidPropertyDelete	Specifies that the property that you are trying to delete does not support deleting. For example, you cannot delete the ItemId property of the ItemType object.
ErrorInvalidPropertyForExists	Occurs if you pass one of the flag properties to a RestrictionType filter of ExistsType. The following are the flag properties: IsDraft, IsSubmitted, IsUnmodified,IsResend, and IsFromMe.
ErrorInvalidPropertyForOperation	Specifies that the property that you are trying to manipulate does not support the operation that is being performed on it.
ErrorInvalidPropertyRequest	Occurs if the property that is specified in the request is not available for the item type. For example, this response code is returned if a property that is only available on calendar items is requested in a GetItem method call for a message or is updated in an UpdateItem method call for a message.
ErrorInvalidPropertySet	Specifies that the property you are trying to set is read-only.
ErrorInvalidPropertyUpdateSentMessage	Occurs during an UpdateItem method call when a client tries to update certain properties of a message that has already been sent. For example, the following properties cannot be updated on a sent message: IsReadReceiptRequested and IsDeliveryReceiptRequested
ErrorInvalidProxySecurityContext	This response code is not used.
ErrorInvalidPullSubscriptionId	Occurs if you called GetEvents or Unsubscribe on a push subscription ID. To unsubscribe from a push subscription, you must respond to a push request with an unsubscribe response, or disconnect your Web service and wait for the push notifications to time out.
ErrorInvalidPushSubscriptionUrl	Specifies that the URL that was provided as a callback for the Subscribe method has an invalid format. The following conditions must be met for Exchange Web Services to accept the URL: String length MUST be greater than 0 and less than 2083, protocol is http or https, and able to be parsed by the URI Microsoft .NET Framework class.
ErrorInvalidRecipients	Specifies that the recipient collection on your message or the attendee collection on your calendar item is invalid.
ErrorInvalidRecipientSubfilter	Specifies that the search folder has a recipient table filter that Exchange Web Services cannot represent. To fix the error, retrieve the folder without requesting the search parameters.
ErrorInvalidRecipientSubfilterComparison	Specifies that the search folder has a recipient table filter that Exchange Web Services cannot represent. To fix the error, retrieve the folder without requesting the search parameters.
ErrorInvalidRecipientSubfilterOrder	Specifies that the search folder has a recipient table filter that Exchange Web Services cannot represent. To fix the error,

Value	Description
	retrieve the folder without requesting the search parameters.
ErrorInvalidRecipientSubfilterTextFilter	Specifies that the search folder has a recipient table filter that Exchange Web Services cannot represent. To fix the error, retrieve the folder without requesting the search parameters.
ErrorInvalidReferenceItem	Occurs under the following circumstances: The referenced item identifier is not a MessageType or CalendarItemType object, or one of their descendants; the reference item identifier is for a CalendarItemType object and the organizer is trying to Reply or ReplyAll. Calendar items can only be forwarded by the organizer; the message is a draft and Reply or ReplyAll is selected, and the ResponseObjects is set to SuppressReadReceipt and the item is not a message.
ErrorInvalidRequest	Specifies that the SOAP request has a SOAP action header, but nothing in the SOAP body. Note that the SOAP action header is not required as Exchange Web Services can determine the method to call from the local name of the root element in the SOAP body.
ErrorInvalidRestriction	This response code is not used.
ErrorInvalidRoutingType	Specifies that the RoutingType property that was passed for an EmailAddressType is not a valid routing type. Typically, routing type is set to SMTP.
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.
ErrorInvalidSchemaVersionForMailboxVersion	Specifies that a proxy request sent to another server is not capable of servicing the request due to a versioning mismatch. This error MUST be returned when the <RequestServerVersion> element (section 2.2.4.7) specifies a server version that does not match the mailbox server for a proxy request.
ErrorInvalidSecurityDescriptor	Specifies that the Exchange security descriptor on the Calendar folder in the store is corrupted.
ErrorInvalidSendItemSaveSettings	Occurs during an attempt to send an item where the SaveItemFolderId is specified in the request but the SaveItemToFolder property is set to false.
ErrorInvalidSerializedAccessToken	Specifies that the token that was passed in the header is malformed, does not refer to a valid account in the directory, or is missing the primary group SID.
ErrorInvalidServerVersion	Specifies that an invalid request server version was specified in the request.
ErrorInvalidSid	Specifies that one or more of the SID properties within the passed token or Exchange Impersonation block have an invalid structure.
ErrorInvalidSIPUri	Specifies that the SIP name, dial plan, or the phone number are invalid SIP URI.

Value	Description
ErrorInvalidSmtpAddress	Specifies that the SMTP address cannot be parsed.
ErrorInvalidSubfilterType	This response code is not used.
ErrorInvalidSubfilterTypeNotAttendeeType	This response code is not used.
ErrorInvalidSubfilterTypeNotRecipientType	This response code is not used.
ErrorInvalidSubscription	Specifies that the subscription is no longer valid. This could be because the Client Access is restarting or because the subscription expired.
ErrorInvalidSubscriptionRequest	Specifies that the subscribe request included multiple public folder IDs. A subscription can include multiple folders from the same mailbox or one public folder ID.
ErrorInvalidSyncStateData	Specifies that the sync state data is corrupted. This is returned by the SyncFolderItems method or the SyncFolderHierarchy method if the SyncState property data is invalid. To fix this error, you must resynchronize without the sync state. Make sure that if you are persisting sync state blobs and that you are not accidentally truncating the BLOB.
ErrorInvalidTimeInterval	Specifies that the specified time interval is invalid. The start time must be greater than or equal to the end time.
ErrorInvalidUserOofSettings	Specifies that the user Out of Office (OOF) settings are invalid because of a missing internal or external reply.
ErrorInvalidUserPrincipalName	Specifies that the UPN that was passed in the Exchange Impersonation SOAP header did not map to a valid account.
ErrorInvalidUserSid	Specifies that the SID that was passed in the Exchange Impersonation SOAP header was either structurally invalid or did not map to a valid account.
ErrorInvalidUserSidMissingUPN	This response code is not used.
ErrorInvalidValueForProperty	Specifies that the comparison value in the restriction is invalid for the property you are comparing against. For example, the comparison value of DateTimeCreated > true would return this response code. This response code is also returned if you specify an enumeration property in the comparison, but the value that you are comparing against is not a valid value for that enumeration.
ErrorInvalidWatermark	Specifies that the watermark is invalid.
ErrorIPGatewayNotFound	Specifies that a valid VoIP gateway is not available.
ErrorIrresolvableConflict	Specifies that conflict resolution was unable to resolve changes for the properties. The items in the store may have been changed and have to be updated. Retrieve the updated change key and try again.

Value	Description
ErrorItemCorrupt	Specifies that the state of the object is corrupted and cannot be retrieved. When you are retrieving an item, only certain properties will be in this state, such as Body and MimeContent. Omit these properties and retry the operation.
ErrorItemNotFound	Specifies that the item was not found or you do not have rights to access the item.
ErrorItemPropertyRequestFailed	Occurs if a property request fails. The property may exist, but could not be retrieved.
ErrorItemSave	Occurs when attempts to save the item or folder fail.
ErrorItemSavePropertyError	Occurs when attempts to save the item or folder fail because of invalid property values. The response code includes the path of the invalid properties.
ErrorLegacyMailboxFreeBusyViewTypeNotMerged	This response code is not used.
ErrorLocalServerObjectNotFound	This response code is not used.
ErrorLogonAsNetworkServiceFailed	Specifies that the availability service was unable to log on as the network service in order to proxy requests to the appropriate sites or forests. This response typically indicates a configuration error.
ErrorMailboxConfiguration	Specifies that the mailbox information in Active Directory is configured incorrectly.
ErrorMailboxDataArrayEmpty	Specifies that the MailboxDataArray property in the request is empty. You must supply at least one mailbox identifier.
ErrorMailboxDataArrayTooBig	Occurs when more than 100 entries are supplied in a MailboxDataArray.
ErrorMailboxLogonFailed	Occurs when the connection to the mailbox to get the calendar view information failed.
ErrorMailboxMoveInProgress	Specifies that the mailbox is currently being moved. Try your request again after the move is complete.
ErrorMailboxStoreUnavailable	Specifies that the mailbox database is offline, corrupt, shutting down, or exhibiting other conditions that make the mailbox unavailable.
ErrorMailRecipientNotFound	Occurs if the MailboxData information cannot be mapped to a valid mailbox account.
ErrorMailTipsDisabled	Spoecifies that mail tips are disabled. This error code MUST be returned when mail tips are disabled.
ErrorManagedFolderAlreadyExists	Specifies that the managed folder that you are trying to create already exists in your mailbox.
ErrorManagedFolderNotFound	Occurs when the folder name that was specified in the request does not map to a managed folder definition in Active Directory.

Value	Description
	You can only create instances of managed folders for folders defined in Active Directory. Check the name and try again.
ErrorManagedFoldersRootFailure	Specifies that the managed folders root was deleted from the mailbox or that there is already a folder in the same parent folder that has the name of the managed folder root. This will also occur if the attempt to create the root managed folder fails.
ErrorMeetingSuggestionGenerationFailed	Specifies that the suggestions engine encountered a problem when it was trying to generate the suggestions.
ErrorMessageDispositionRequired	Occurs if the MessageDisposition property is not set. This property is required: 1) When the item that is being created or updated is a MessageType object. 2) For the CancelCalendarItemType, AcceptItemType, DeclineItemType, or TentativelyAcceptItemType response objects.
ErrorMessageSizeExceeded	Specifies that the message that you are trying to send exceeded the allowed limits.
ErrorMimeContentConversionFailed	Occurs when the MIME content is not a valid iCal for a CreateItem method. For a GetItem method, this response indicates that the MIME content could not be generated.
ErrorMimeContentInvalid	Occurs when the MIME content is invalid.
ErrorMimeContentInvalidBase64String	Occurs when the MIME content in the request is not a valid base64 string.
ErrorMissingArgument	Specifies that a required argument was missing from the request. The response message text indicates which argument to check.
ErrorMissingEmailAddress	Specifies that you specified a distinguished folder ID in the request, but the account that made the request does not have a mailbox on the system.
ErrorMissingEmailAddressForManagedFolder	Specifies that you specified a distinguished folder ID in the request, but the account that made the request does not have a mailbox on the system. This response is returned from the CreateManagedFolder method.
ErrorMissingInformationEmailAddress	Specifies that the attendee or recipient does not have the EmailAddress property set. The other two EmailAddressType properties, Name and RoutingType, are optional.
ErrorMissingInformationReferenceItemId	Occurs if the ReferenceItemId property value is missing from the response object.
ErrorMissingItemForCreateItemAttachment	Occurs when you are creating an item attachment if you do not indicate the item that you want to create.
ErrorMissingManagedFolderId	Occurs when the policy IDs property, property tag 0x6732, for the folder is missing. You should consider this a corrupted folder.
ErrorMissingRecipients	Specifies that you tried to send an item without including recipients. Note that if you call the CreateItem method with a message disposition that causes the message to be sent, you will

Value	Description
	get the following response code: ErrorInvalidRecipients.
ErrorMissingUserIdInformation	Specifies that a user ID has not been fully specified in a permissions set.
ErrorMoreThanOneAccessModeSpecified	Specifies that you have specified more than one ExchangeImpersonation or SerializedSecurityContext property value within a request.
ErrorMoveCopyFailed	Specifies that the move or copy operation failed. Moving occurs in the CreateItem method when you accept a meeting request that is in the Deleted Items folder. In addition, if you decline a meeting request, cancel a calendar item, or remove a meeting from your calendar, it is moved to the Deleted Items folder.
ErrorMoveDistinguishedFolder	Occurs if you try to move a distinguished folder.
ErrorNameResolutionMultipleResults	Specifies that the ResolveNames method returned more than one result or that the ambiguous name that you specified matched more than one object in the directory. The response code includes the matched names in the response data.
ErrorNameResolutionNoMailbox	Specifies that the caller does not have a mailbox on the system.
ErrorNameResolutionNoResults	Occurs if the ResolveNames method returns no results.
ErrorNoApplicableProxyCASServersAvailable	This error code MUST be returned when the Web service cannot find a server to handle the request.
ErrorNoCalendar	Occurs if there is no Calendar folder for the mailbox.
ErrorNoDestinationCASDueToKerberosRequirements	Specifies that the request referred to a mailbox in another Active Directory site, but no Client Access servers in the destination site were configured for Windows Authentication and therefore the request could not be proxied.
ErrorNoDestinationCASDueToSSLRequirements	Specifies that the request referred to a mailbox in another Active Directory site, but no Client Access servers in the destination site were configured for SSL connections and therefore the request could not be proxied.
ErrorNoDestinationCASDueToVersionMismatch	Specifies that the request referred to a mailbox in another Active Directory site, but no Client Access servers in the destination site were of an acceptable product version to receive the request and therefore the request could not be proxied.
ErrorNoFolderClassOverride	Occurs if you set the FolderClass property when you are creating an item other than a generic folder. For typed folders such as CalendarFolderType and TasksFolderType, the folder class is implied. Setting the folder class to a different folder type by using the UpdateFolder method results in the ErrorObjectTypeChanged response. Instead, use a generic folder type but set the folder class to the value that you require. Exchange Web Services will create the correct strongly typed folder.
ErrorNoFreeBusyAccess	Specifies that the caller does not have free/busy viewing rights on the Calendar folder in question.

Value	Description
ErrorNonExistentMailbox	Specifies one of the following: 1) The e-mail address is empty in the CreateManagedFolder method 2) the SMTP address does not map to a valid mailbox.
ErrorNonPrimarySmtpAddress	Occurs when a caller passes in a non-primary SMTP address. The response includes the correct SMTP address to use.
ErrorNoPropertyTagForCustomProperties	Specifies that MAPI properties in the custom range, 0x8000 and greater, cannot be referenced by property tags. You must use the PropertySetId property or the DistinguishedPropertySetId together with the PropertyName or PropertyId properties.
ErrorNoPublicFolderReplicaAvailable	This response code is not used.
ErrorNoPublicFolderServerAvailable	This error code MUST be returned if no public folder server is available or if the caller does not have a home public server.
ErrorNoRespondingCASInDestinationSite	Specifies that the request referred to a mailbox in another Active Directory site, but none of the Client Access servers in that site responded and therefore the request could not be proxied.
ErrorNotDelegate	Specifies that the user is not a delegate for the mailbox. This error is returned by GetDelegate, RemoveDelegate, and UpdateDelegate method calls when the specified delegate user is not found in the list of delegates.
ErrorNotEnoughMemory	Specifies that the operation could not be completed because of insufficient memory.
ErrorObjectTypeChanged	Specifies that the object type cannot be changed. For the CreateItem method, the ItemClass property must be consistent with the strongly typed item such as a Message or Contact.
ErrorOccurrenceCrossingBoundary	Specifies that the time allotment for a given occurrence overlaps with an earlier or later occurrence.
ErrorOccurrenceTimeSpanTooBig	Specifies that the time allotment for a given occurrence overlaps with another occurrence of the same recurring item. This response also occurs if the length in minutes of a given occurrence is larger than Int32.MaxValue.
ErrorOperationNotAllowedWithPublicFolderRoot	Specifies that the current operation is not valid to be performed on the public folder root.
ErrorParentFolderIdRequired	This response code is not used.
ErrorParentFolderNotFound	Occurs in the CreateFolder when the parent folder is not found.
ErrorPasswordChangeRequired	Specifies that you must change your password before you can access this mailbox. This occurs when a new account has been created and the administrator indicated that the user must change the password at first logon. You cannot update the password by using Exchange Web Services. You must use a tool such as Outlook Web Access to change your password.
ErrorPasswordExpired	Specifies that the password has expired. You cannot change the password by using Exchange Web Services. You must use a tool

Value	Description
	such as Outlook Web Access to change your password.
ErrorPhoneNumberNotDialable	Specifies that the phone number was not in the correct phone form.
ErrorPropertyUpdate	Specifies that the update failed because of invalid property values. The response message includes the invalid property paths.
ErrorPropertyValidationFailure	This response code is not used.
ErrorProxiedSubscriptionCallFailure	Specifies that the request referred to a subscription that exists on another Client Access server, but an attempt to proxy the request to that Client Access server failed.
ErrorProxyCallFailed	This response code is not used.
ErrorProxyGroupSidLimitExceeded	Specifies that the request referred to a mailbox in another Active Directory site, and the original caller is a member of more than 3000 groups.
ErrorProxyRequestNotAllowed	Specifies that the request that Exchange Web Services sent to another Client Access server when trying to fulfill a GetUserAvailability request was invalid. This response code likely indicates a configuration or rights error, or that someone is trying unsuccessfully to mimic an availability proxy request.
ErrorProxyRequestProcessingFailed	Specifies that Exchange Web Services tried to proxy an availability request to another Client Access server for fulfillment, but the request failed. This response can be caused by network connectivity issues or request time-out issues.
ErrorProxyServiceDiscoveryFailed	This error code MUST be returned if the Web service cannot determine whether the request is to run on the target server or will be proxied to another server.
ErrorProxyTokenExpired	This response code is not used.
ErrorPublicFolderRequestProcessingFailed	Occurs when the recipient passed to GetUserAvailability is located on a computer that is running a version of Exchange Server that is earlier than Exchange 2007 and the request to retrieve free/busy information for the recipient from the public folder server failed.
ErrorPublicFolderServerNotFound	Occurs when the recipient passed to GetUserAvailability is located on an Exchange server that is running a version of Exchange that is earlier than Exchange 2007 and the request to retrieve free/busy information for the recipient from the public folder server failed because the organizational unit did not have a public folder server associated with it.
ErrorQueryFilterTooLong	Specifies that the search folder restriction may be valid, but is not supported by Exchange Web Services. Exchange Web Services limits restrictions to contain a maximum of 255 filter expressions. If you try to bind to an existing search folder that exceeds 255, this response code is returned.

Value	Description
ErrorQuotaExceeded	Occurs when the mailbox quota is exceeded.
ErrorReadEventsFailed	Specifies that the process for reading events was aborted because of an internal failure. Re-create the event synchronization based on a last known watermark.
ErrorReadReceiptNotPending	Occurs when an attempt has been made to suppress a read receipt when the message sender did not request a read receipt on the message.
ErrorRecurrenceEndDateTooBig	Occurs when the end date for the recurrence is after 9/1/4500.
ErrorRecurrenceHasNoOccurrence	Specifies that the recurrence has no occurrence instances in the specified range.
ErrorRemoveDelegatesFailed	Specifies that the delegate list failed to be saved after delegates were removed.
ErrorRequestAborted	This response code is not used.
ErrorRequestStreamTooBig	Specifies that during availability proxying, the request was determined to be too large.
ErrorRequiredPropertyMissing	Specifies that one or more of the required properties is missing from a CreateAttachment call. The response indicates which property path was not set.
ErrorResolveNamesInvalidFolderType	Specifies that the caller has specified a folder that is not a Contacts folder to ResolveNames.
ErrorResolveNamesOnlyOneContactsFolderAllowed	Specifies that the caller has specified more than one Contacts folder to ResolveNames.
ErrorResponseSchemaValidation	This response code is not used.
ErrorRestrictionTooLong	Occurs when the restriction has more than 255 filters.
ErrorRestrictionTooComplex	Specifies that the restriction that was passed cannot be evaluated by Exchange Web Services.
ErrorResultSetTooBig	Specifies that the number of calendar entries for a given recipient exceeds the allowed limit of 1000. Reduce the window and try again.
ErrorInvalidExchangeImpersonationHeaderData	Specifies that the ExchangeImpersonation header is missing or empty. This error MUST be returned if an <ExchangeImpersonation> element (section 2.2.4.2) is empty.
ErrorSavedItemFolderNotFound	Specifies that the folder in which to save the item does not exist.
ErrorSchemaValidation	Occurs when the incoming request fails schema validation against types.xsd and messages.xsd. This response code is always returned within a SOAP fault.
ErrorSearchFolderNotInitialized	Specifies that the search folder was created, but the search criteria were never set on the folder. This only occurs when you access corrupted search folders that were created by using

Value	Description
	another API or client. To fix this error, call UpdateFolder and set the SearchParameters to include the restriction that should be on the folder.
ErrorSendAsDenied	Occurs when both of the following conditions occur:
ErrorSendMeetingCancellationsRequired	Occurs during a DeleteItem call, when the SendMeetingCancellations property is missing from the request and the item to delete is a calendar item. If you are using the proxy objects, make sure that the SendMeetingCancellationsSpecified property is set to true.
ErrorSendMeetingInvitationsOrCancellationsRequired	Occurs during an UpdateItem method call, when the SendMeetingInvitationsOrCancellations property is missing from the request and the item to update is a calendar item. If you are using the proxy objects, make sure that the SendMeetingInvitationsOrCancellationsSpecified property is set to true.
ErrorSendMeetingInvitationsRequired	Occurs during a CreateItem method call, when the SendMeetingInvitations property is missing from the request and the item to create is a calendar item. If you are using the proxy objects, make sure that the SendMeetingInvitationsSpecified property is set to true.
ErrorSentMeetingRequestUpdate	Specifies that after the organizer sends a meeting request, the request cannot be updated. To modify the meeting, modify the calendar item, not the meeting request.
ErrorSentTaskRequestUpdate	Specifies that after the task initiator sends a task request, that request cannot be updated.
ErrorServerBusy	Occurs when the server is busy.
ErrorServiceDiscoveryFailed	Specifies that Exchange Web Services tried to proxy a user availability request to the appropriate forest for the recipient, but it could not determine where to send the request because of a service discovery failure.
ErrorStaleObject	Occurs in an UpdateItem or SendItem method call when the change key is not up to date or was not supplied. Call GetItem to retrieve an updated change key and then try the operation again.
ErrorSubmissionQuotaExceeded	Specifies that a user cannot immediately send more request because the submission quota has been reached.
ErrorSubscriptionAccessDenied	Specifies that you tried to access a subscription by using an account that did not create that subscription. Each subscription can only be accessed by the creator of the subscription.
ErrorSubscriptionDelegateAccessNotSupported	Specifies that you cannot create a subscription if you are not the owner or do not have owner access to the mailbox.
ErrorSubscriptionNotFound	Specifies that the specified subscription does not exist. The subscription may have expired, the Exchange Web Services process may have been restarted, or an invalid subscription was passed in. If the subscription was valid, re-create the subscription

Value	Description
	with the latest watermark.
ErrorSubscriptionUnsubscribed	This error code MUST be returned when a request is made for a subscription that has been unsubscribed.
ErrorSyncFolderNotFound	Specifies that the folder ID that was specified in the SyncFolderItems method call does not exist.
ErrorTimeIntervalTooBig	Specifies that the time window that was specified is larger than the allowed limit. By default, the allowed limit is 42.
ErrorTimeoutExpired	Specifies that the proxied request timed out.
ErrorTimeZone	Specifies that there is a time zone error.
ErrorToFolderNotFound	Specifies that the destination folder does not exist.
ErrorTokenSerializationDenied	Occurs if the caller tries to perform a token serialization request but does not have ms-Exch-EPI-TokenSerialization rights on the Client Access server they are calling.
ErrorUpdatePropertyMismatch	Occurs when the single property path that is listed in a change description does not match the single property that is being set within the actual ItemType or FolderType object.
ErrorUnifiedMessagingDialPlanNotFound	Specifies that a user's dial plan is not available.
ErrorUnifiedMessagingRequestFailed	Specifies that the user could not be found.
ErrorUnifiedMessagingServerNotFound	Specifies that a valid server for the dial plan can be found to handle the request.
ErrorUnableToGetUserOofSettings	This response code is not used.
ErrorUnsupportedSubFilter	This response code is not used.
ErrorUnsupportedCulture	Occurs if you try to set the Culture property to a value that is not parsable by the System.Globalization.CultureInfo class.
ErrorUnsupportedMapiPropertyType	Occurs if a caller tries to use extended properties of types object, object array, error or null.
ErrorUnsupportedMimeConversion	Occurs when you are trying to retrieve or set MIME content for an item other than a PostItemType, MessageType, or CalendarItemType object.
ErrorUnsupportedPathForQuery	Specifies that the property path cannot be used within a restriction. This value MUST be returned if an Excludes restriction is performed on a non-integer property.
ErrorUnsupportedPathForSortGroup	Specifies that the property path cannot be used for sorting or grouping operations.
ErrorUnsupportedPropertyDefinition	This response code is not used.
ErrorUnsupportedQueryFilter	Specifies that the search folder restriction may be valid, but is not supported by Exchange Web Services. You can still call the

Value	Description
	FindItem method on the search folder restriction to retrieve the items in the search folder; however, you cannot get the actual restriction clause.
ErrorUnsupportedRecurrence	Specifies that the recurrence pattern that was supplied is not supported for tasks.
ErrorUnsupportedTypeForConversion	Specifies that Exchange Web Services found a property type in the store but cannot generate XML for the property type.
ErrorUpdateDelegatesFailed	Specifies that the delegate list failed to be saved after delegates were updated.
ErrorUserNotUnifiedMessagingEnabled	Specifies that the requestor is not enabled.
ErrorVoiceMailNotImplemented	Specifies that voice mail is not implemented.
ErrorValueOutOfRange	Specifies that a calendar view start date or end date was set to `1/1/0001 12:00:00 AM` or `12/31/9999 11:59:59 PM`.
ErrorVirusDetected	Specifies that the database detected a virus in the message.
ErrorVirusMessageDeleted	Specifies that the database detected a virus in the message and deleted it.
ErrorWebRequestInvalidState	This response code is not used.
ErrorWin32InteropError	Specifies that there was an internal failure during communication with unmanaged code.
ErrorWorkingHoursSaveFailed	This response code is not used.
ErrorWorkingHoursXmlMalformed	This response code is not used.
ErrorWrongServerVersion	Specifies that a request can only be made to a server that is the same version as the mailbox server. This error MUST be returned if a request is made to a server that is not the same version as the mailbox server.
ErrorWrongServerVersionDelegate	Specifies that a request was made by a delegate that has a different server version than the principal's mailbox server. This error MUST be returned if a request was made by a delegate that has a different server version than the principal's mailbox server.
ErrorMissingInformationSharingFolderId	This error code is never returned.
ErrorDuplicateSOAPHeader	Specifies that there are duplicate SOAP headers.
ErrorSharingSynchronizationFailed	Specifies that an attempt at synchronizing a sharing folder failed. This error code MUST be returned when: ▪ The subscription for a sharing folder is not found. ▪ The sharing folder was not found. ▪ The corresponding directory user was not found.

Value	Description
	▪ The user no longer exists. ▪ The appointment is invalid. ▪ The contact item is invalid. ▪ There was a communication failure with the remote server.
ErrorSharingNoExternalEwsAvailable	Specifies that the external URL property has not been set in the Active Directory database. This error code MUST be returned if the external URL property has not been set in the Active Directory database.
ErrorFreeBusyDLLimitReached	Specifies that the maximum group member count has been reached for obtaining free/busy information for a distribution list. This error MUST be returned when the maximum group member count has been reached for obtaining free/busy information for a distribution list.
ErrorInvalidGetSharingFolderRequest	Specifies that the DataType and ShareFolderId element are both present in a request. This error code MUST be returned if the DataType and ShareFolderId element are both present in a request.
ErrorNotAllowedExternalSharingByPolicy	Specifies that the caller attempted to grant permissions in its calendar or contacts folder to a user in another organization and the attempt failed. This error code MUST be returned when the sharing policy is disabled for the caller or when the sharing policy assigned to the caller disallows sharing for the requested level or the requested folder type.
ErrorUserNotAllowedByPolicy	Specifies that the requestor attempted to grant permissions in its calendar or contacts folder to an external user but the sharing policy assigned to the requestor specifies that the domain of the external user is not listed in the policy.
ErrorPermissionNotAllowedByPolicy	Specifies that the requestor attempted to grant permissions in its calendar or contacts folder to an external user but the sharing policy assigned to the requestor specifies that the requested permission level is higher is than what the sharing policy allows.
ErrorOrganizationNotFederated	Specifies that the requestor's organization is not federated so the requestor cannot create sharing messages to send to an external user or cannot accept sharing messages received from an external user. This error code MUST be returned if the requestor's organization is not federated.
ErrorMailboxFailover	Specifies that an attempt to access a mailbox failed because the mailbox is in a failover process.
ErrorInvalidExternalSharingInitiator	Specifies that the sharing invitation sender did not create the sharing invitation metadata. This error code MUST be returned if the sharing invitation sender did not create the sharing invitation metadata.
ErrorMessageTrackingPermanentError	Specifies that the message tracking service cannot track the

Value	Description
	message.
ErrorMessageTrackingTransientError	Specifies that either the message tracking service is down or busy. This error code specifies a transient error. Clients can retry to connect to the server when this error is received.
ErrorMessageTrackingNoSuchDomain	Specifies that the given domain cannot be found.
ErrorUserWithoutFederatedProxyAddress	Specifies that the requestor's organization has a set of federated domains but the requestor's organization does not have any SMTP proxy addresses with one of the federated domains.
ErrorInvalidOrganizationRelationshipForFreeBusy	Specifies that a caller requested free/busy information for a user in another organization but the organizational relationship does not have free/busy enabled.
ErrorInvalidFederatedOrganizationId	Specifies that the requestor's organization federation objects are not properly configured.
ErrorInvalidExternalSharingSubscriber	Specifies that a sharing message is not intended for the caller.
ErrorInvalidSharingData	Specifies that the sharing metadata is not valid. This can be caused by invalid XML.
ErrorInvalidSharingMessage	Specifies that the sharing message is not valid. This can be caused by a missing property.
ErrorNotSupportedSharingMessage	Specifies that the sharing message is not supported.
ErrorApplyConversationActionFailed	This error MUST be returned if an action cannot be applied to one or more items in the conversation.
ErrorInboxRulesValidationError	This error MUST be returned if any rule does not validate.
ErrorOutlookRuleBlobExists	This error MUST be returned when an attempt to manage Inbox rules occurs after another client has accessed the Inbox rules.
ErrorRulesOverQuota	This error MUST be returned when a user's rule quota has been exceeded.
ErrorNewEventStreamConnectionOpened	This error MUST be returned to the first subscription connection if a second subscription connection is opened.
ErrorMissedNotificationEvents	This error MUST be returned when event notifications are missed.

2.2.2.21   t:SensitivityChoicesType Simple Type

The SensitivityChoicesType simple type specifies the sensitivity level types that are available for an item.

```
<xs:simpleType name="SensitivityChoicesType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="Confidential"
```

```
    />
  <xs:enumeration
    value="Normal"
    />
  <xs:enumeration
    value="Personal"
    />
  <xs:enumeration
    value="Private"
    />
 </xs:restriction>
</xs:simpleType>
```

Enumeration

The following values are defined by the **SensitivityChoicesType** simple type:

Value	Description
Confidential	Specifies the item as confidential.
Normal	Specifies the item as normal.
Personal	Specifies the item as personal.
Private	Specifies the item as private.

2.2.2.22   t:UnindexedFieldURIType Simple Type

The **UnindexedFieldURIType** simple type specifies unindexed properties.<8>

```
<xs:simpleType name="UnindexedFieldURIType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="folder:FolderId"
     />
    <xs:enumeration
      value="folder:ParentFolderId"
     />
    <xs:enumeration
      value="folder:DisplayName"
     />
    <xs:enumeration
      value="folder:UnreadCount"
     />
    <xs:enumeration
      value="folder:TotalCount"
     />
    <xs:enumeration
      value="folder:ChildFolderCount"
     />
    <xs:enumeration
      value="folder:FolderClass"
```

```
 />
<xs:enumeration
 value="folder:SearchParameters"
 />
<xs:enumeration
 value="folder:ManagedFolderInformation"
 />
<xs:enumeration
 value="folder:PermissionSet"
 />
<xs:enumeration
 value="folder:EffectiveRights"
 />
<xs:enumeration
 value="folder:SharingEffectiveRights"
 />
<xs:enumeration
 value="item:ItemId"
 />
<xs:enumeration
 value="item:ParentFolderId"
 />
<xs:enumeration
 value="item:ItemClass"
 />
<xs:enumeration
 value="item:MimeContent"
 />
<xs:enumeration
 value="item:Attachments"
 />
<xs:enumeration
 value="item:Subject"
 />
<xs:enumeration
 value="item:DateTimeReceived"
 />
<xs:enumeration
 value="item:Size"
 />
<xs:enumeration
 value="item:Categories"
 />
<xs:enumeration
 value="item:HasAttachments"
 />
<xs:enumeration
 value="item:Importance"
 />
<xs:enumeration
 value="item:InReplyTo"
 />
<xs:enumeration
 value="item:InternetMessageHeaders"
 />
<xs:enumeration
 value="item:IsAssociated"
 />
<xs:enumeration
```

```
     value="item:IsDraft"
   />
  <xs:enumeration
   value="item:IsFromMe"
   />
  <xs:enumeration
   value="item:IsResend"
   />
  <xs:enumeration
   value="item:IsSubmitted"
   />
  <xs:enumeration
   value="item:IsUnmodified"
   />
  <xs:enumeration
   value="item:DateTimeSent"
   />
  <xs:enumeration
   value="item:DateTimeCreated"
   />
  <xs:enumeration
   value="item:Body"
   />
  <xs:enumeration
   value="item:ResponseObjects"
   />
  <xs:enumeration
   value="item:Sensitivity"
   />
  <xs:enumeration
   value="item:ReminderDueBy"
   />
  <xs:enumeration
   value="item:ReminderIsSet"
   />
  <xs:enumeration
   value="item:ReminderMinutesBeforeStart"
   />
  <xs:enumeration
   value="item:DisplayTo"
   />
  <xs:enumeration
   value="item:DisplayCc"
   />
  <xs:enumeration
   value="item:Culture"
   />
  <xs:enumeration
   value="item:EffectiveRights"
   />
  <xs:enumeration
   value="item:LastModifiedName"
   />
  <xs:enumeration
   value="item:LastModifiedTime"
   />
  <xs:enumeration
   value="item:ConversationId"
   />
```

```xml
<xs:enumeration
 value="item:UniqueBody"
 />
<xs:enumeration
 value="item:WebClientReadFormQueryString"
 />
<xs:enumeration
 value="item:WebClientEditFormQueryString"
 />
<xs:enumeration
 value="message:ConversationIndex"
 />
<xs:enumeration
 value="message:ConversationTopic"
 />
<xs:enumeration
 value="message:InternetMessageId"
 />
<xs:enumeration
 value="message:IsRead"
 />
<xs:enumeration
 value="message:IsResponseRequested"
 />
<xs:enumeration
 value="message:IsReadReceiptRequested"
 />
<xs:enumeration
 value="message:IsDeliveryReceiptRequested"
 />
<xs:enumeration
 value="message:ReceivedBy"
 />
<xs:enumeration
 value="message:ReceivedRepresenting"
 />
<xs:enumeration
 value="message:References"
 />
<xs:enumeration
 value="message:ReplyTo"
 />
<xs:enumeration
 value="message:From"
 />
<xs:enumeration
 value="message:Sender"
 />
<xs:enumeration
 value="message:ToRecipients"
 />
<xs:enumeration
 value="message:CcRecipients"
 />
<xs:enumeration
 value="message:BccRecipients"
 />
<xs:enumeration
 value="meeting:AssociatedCalendarItemId"
```

```
 />
<xs:enumeration
 value="meeting:IsDelegated"
 />
<xs:enumeration
 value="meeting:IsOutOfDate"
 />
<xs:enumeration
 value="meeting:HasBeenProcessed"
 />
<xs:enumeration
 value="meeting:ResponseType"
 />
<xs:enumeration
 value="meetingRequest:MeetingRequestType"
 />
<xs:enumeration
 value="meetingRequest:IntendedFreeBusyStatus"
 />
<xs:enumeration
 value="calendar:Start"
 />
<xs:enumeration
 value="calendar:End"
 />
<xs:enumeration
 value="calendar:OriginalStart"
 />
<xs:enumeration
 value="calendar:IsAllDayEvent"
 />
<xs:enumeration
 value="calendar:LegacyFreeBusyStatus"
 />
<xs:enumeration
 value="calendar:Location"
 />
<xs:enumeration
 value="calendar:When"
 />
<xs:enumeration
 value="calendar:IsMeeting"
 />
<xs:enumeration
 value="calendar:IsCancelled"
 />
<xs:enumeration
 value="calendar:IsRecurring"
 />
<xs:enumeration
 value="calendar:MeetingRequestWasSent"
 />
<xs:enumeration
 value="calendar:IsResponseRequested"
 />
<xs:enumeration
 value="calendar:CalendarItemType"
 />
<xs:enumeration
```

```
     value="calendar:MyResponseType"
 />
<xs:enumeration
 value="calendar:Organizer"
 />
<xs:enumeration
 value="calendar:RequiredAttendees"
 />
<xs:enumeration
 value="calendar:OptionalAttendees"
 />
<xs:enumeration
 value="calendar:Resources"
 />
<xs:enumeration
 value="calendar:ConflictingMeetingCount"
 />
<xs:enumeration
 value="calendar:AdjacentMeetingCount"
 />
<xs:enumeration
 value="calendar:ConflictingMeetings"
 />
<xs:enumeration
 value="calendar:AdjacentMeetings"
 />
<xs:enumeration
 value="calendar:Duration"
 />
<xs:enumeration
 value="calendar:TimeZone"
 />
<xs:enumeration
 value="calendar:AppointmentReplyTime"
 />
<xs:enumeration
 value="calendar:AppointmentSequenceNumber"
 />
<xs:enumeration
 value="calendar:AppointmentState"
 />
<xs:enumeration
 value="calendar:Recurrence"
 />
<xs:enumeration
 value="calendar:FirstOccurrence"
 />
<xs:enumeration
 value="calendar:LastOccurrence"
 />
<xs:enumeration
 value="calendar:ModifiedOccurrences"
 />
<xs:enumeration
 value="calendar:DeletedOccurrences"
 />
<xs:enumeration
 value="calendar:MeetingTimeZone"
 />
```

```
<xs:enumeration
 value="calendar:ConferenceType"
 />
<xs:enumeration
 value="calendar:AllowNewTimeProposal"
 />
<xs:enumeration
 value="calendar:IsOnlineMeeting"
 />
<xs:enumeration
 value="calendar:MeetingWorkspaceUrl"
 />
<xs:enumeration
 value="calendar:NetShowUrl"
 />
<xs:enumeration
 value="calendar:UID"
 />
<xs:enumeration
 value="calendar:RecurrenceId"
 />
<xs:enumeration
 value="calendar:DateTimeStamp"
 />
<xs:enumeration
 value="calendar:StartTimeZone"
 />
<xs:enumeration
 value="calendar:EndTimeZone"
 />
<xs:enumeration
 value="task:ActualWork"
 />
<xs:enumeration
 value="task:AssignedTime"
 />
<xs:enumeration
 value="task:BillingInformation"
 />
<xs:enumeration
 value="task:ChangeCount"
 />
<xs:enumeration
 value="task:Companies"
 />
<xs:enumeration
 value="task:CompleteDate"
 />
<xs:enumeration
 value="task:Contacts"
 />
<xs:enumeration
 value="task:DelegationState"
 />
<xs:enumeration
 value="task:Delegator"
 />
<xs:enumeration
 value="task:DueDate"
```

```
  />
<xs:enumeration
 value="task:IsAssignmentEditable"
 />
<xs:enumeration
 value="task:IsComplete"
 />
<xs:enumeration
 value="task:IsRecurring"
 />
<xs:enumeration
 value="task:IsTeamTask"
 />
<xs:enumeration
 value="task:Mileage"
 />
<xs:enumeration
 value="task:Owner"
 />
<xs:enumeration
 value="task:PercentComplete"
 />
<xs:enumeration
 value="task:Recurrence"
 />
<xs:enumeration
 value="task:StartDate"
 />
<xs:enumeration
 value="task:Status"
 />
<xs:enumeration
 value="task:StatusDescription"
 />
<xs:enumeration
 value="task:TotalWork"
 />
<xs:enumeration
 value="contacts:AssistantName"
 />
<xs:enumeration
 value="contacts:Birthday"
 />
<xs:enumeration
 value="contacts:BusinessHomePage"
 />
<xs:enumeration
 value="contacts:Children"
 />
<xs:enumeration
 value="contacts:Companies"
 />
<xs:enumeration
 value="contacts:CompanyName"
 />
<xs:enumeration
 value="contacts:CompleteName"
 />
<xs:enumeration
```

```
                value="contacts:ContactSource"
   />
  <xs:enumeration
    value="contacts:Culture"
   />
  <xs:enumeration
    value="contacts:Department"
   />
  <xs:enumeration
    value="contacts:DisplayName"
   />
  <xs:enumeration
    value="contacts:EmailAddresses"
   />
  <xs:enumeration
    value="contacts:FileAs"
   />
  <xs:enumeration
    value="contacts:FileAsMapping"
   />
  <xs:enumeration
    value="contacts:Generation"
   />
  <xs:enumeration
    value="contacts:GivenName"
   />
  <xs:enumeration
    value="contacts:ImAddresses"
   />
  <xs:enumeration
    value="contacts:Initials"
   />
  <xs:enumeration
    value="contacts:JobTitle"
   />
  <xs:enumeration
    value="contacts:Manager"
   />
  <xs:enumeration
    value="contacts:MiddleName"
   />
  <xs:enumeration
    value="contacts:Mileage"
   />
  <xs:enumeration
    value="contacts:Nickname"
   />
  <xs:enumeration
    value="contacts:OfficeLocation"
   />
  <xs:enumeration
    value="contacts:PhoneNumbers"
   />
  <xs:enumeration
    value="contacts:PhysicalAddresses"
   />
  <xs:enumeration
    value="contacts:PostalAddressIndex"
   />
```

```
<xs:enumeration
 value="contacts:Profession"
 />
<xs:enumeration
 value="contacts:SpouseName"
 />
<xs:enumeration
 value="contacts:Surname"
 />
<xs:enumeration
 value="contacts:WeddingAnniversary"
 />
<xs:enumeration
 value="contacts:HasPicture"
 />
<xs:enumeration
 value="distributionlist:Members"
 />
<xs:enumeration
 value="postitem:PostedTime"
 />
<xs:enumeration
 value="conversation:ConversationId"
 />
<xs:enumeration
 value="conversation:ConversationTopic"
 />
<xs:enumeration
 value="conversation:UniqueRecipients"
 />
<xs:enumeration
 value="conversation:GlobalUniqueRecipients"
 />
<xs:enumeration
 value="conversation:UniqueUnreadSenders"
 />
<xs:enumeration
 value="conversation:GlobalUniqueUnreadSenders"
 />
<xs:enumeration
 value="conversation:UniqueSenders"
 />
<xs:enumeration
 value="conversation:GlobalUniqueSenders"
 />
<xs:enumeration
 value="conversation:LastDeliveryTime"
 />
<xs:enumeration
 value="conversation:GlobalLastDeliveryTime"
 />
<xs:enumeration
 value="conversation:Categories"
 />
<xs:enumeration
 value="conversation:GlobalCategories"
 />
<xs:enumeration
 value="conversation:FlagStatus"
```

```
       />
     <xs:enumeration
      value="conversation:GlobalFlagStatus"
      />
     <xs:enumeration
      value="conversation:HasAttachments"
      />
     <xs:enumeration
      value="conversation:GlobalHasAttachments"
      />
     <xs:enumeration
      value="conversation:MessageCount"
      />
     <xs:enumeration
      value="conversation:GlobalMessageCount"
      />
     <xs:enumeration
      value="conversation:UnreadCount"
      />
     <xs:enumeration
      value="conversation:GlobalUnreadCount"
      />
     <xs:enumeration
      value="conversation:Size"
      />
     <xs:enumeration
      value="conversation:GlobalSize"
      />
     <xs:enumeration
      value="conversation:ItemClasses"
      />
     <xs:enumeration
      value="conversation:GlobalItemClasses"
      />
     <xs:enumeration
      value="conversation:Importance"
      />
     <xs:enumeration
      value="conversation:GlobalImportance"
      />
     <xs:enumeration
      value="conversation:ItemIds"
      />
     <xs:enumeration
      value="conversation:GlobalItemIds"
      />
   </xs:restriction>
 </xs:simpleType>
```

Enumeration

The following values are defined by the **UnindexedFieldURIType** simple type:

Value	Description
folder:FolderId	Specifies the **FolderId** property.

Value	Description
folder:ParentFolderId	Specifies the **ParentFolderId** property.
folder:DisplayName	Specifies the **DisplayName** property.
folder:UnreadCount	Specifies the **UnreadCount** property.
folder:TotalCount	Specifies the **TotalCount** property.
folder:ChildFolderCount	Specifies the **ChildFolderCount** property.
folder:FolderClass	Specifies the **FolderClass** property.
folder:SearchParameters	Specifies the **SearchParameters** property.
folder:ManagedFolderInformation	Specifies the **ManagedFolderInformation** property.
folder:PermissionSet	Specifies the **PermissionSet** property.
folder:EffectiveRights	Specifies the **EffectiveRights** property.
folder:SharingEffectiveRights	Specifies the **SharingEffectiveRights** property.
item:ItemId	Specifies the **ItemId** property.
item:ParentFolderId	Specifies the **ParentFolderId** property.
item:ItemClass	Specifies the **ItemClass** property.
item:MimeContent	Specifies the **MimeContent** property.
item:Attachments	Specifies the **Attachments** property.
item:Subject	Specifies the **Subject** property.
item:DateTimeReceived	Specifies the **DateTimeReceived** property.
item:Size	Specifies the **Size** property.
item:Categories	Specifies the **Categories** property.
item:HasAttachments	Specifies the **HasAttachments** property.
item:Importance	Specifies the **Importance** property.
item:InReplyTo	Specifies the **InReplyTo** property.
item:InternetMessageHeaders	Specifies the **InternetMessageHeaders** property.
item:IsAssociated	Specifies the **IsAssociated** property.
item:IsDraft	Specifies the **IsDraft** property.
item:IsFromMe	Specifies the **IsFromMe** property.
item:IsResend	Specifies the **IsResend** property.
item:IsSubmitted	Specifies the **IsSubmitted** property.

Value	Description
item:IsUnmodified	Specifies the **IsUnmodified** property.
item:DateTimeSent	Specifies the **DateTimeSent** property.
item:DateTimeCreated	Specifies the **DateTimeCreated** property.
item:Body	Specifies the **Body** property.
item:ResponseObjects	Specifies the **ResponseObjects** property.
item:Sensitivity	Specifies the **Sensitivity** property.
item:ReminderDueBy	Specifies the **ReminderDueBy** property.
item:ReminderIsSet	Specifies the **ReminderIsSet** property.
item:ReminderMinutesBeforeStart	Specifies the **ReminderMinutesBeforeStart** property.
item:DisplayTo	Specifies the **DisplayTo** property.
item:DisplayCc	Specifies the **DisplayCc** property.
item:Culture	Specifies the **Culture** property.
item:EffectiveRights	Specifies the **EffectiveRights** property.
item:LastModifiedName	Specifies the **LastModifiedName** property.
item:LastModifiedTime	Specifies the **LastModifiedTime** property.
item:ConversationId	Specifies the **ConversationId** property.
item:UniqueBody	Specifies the **UniqueBody** property.
item:WebClientReadFormQueryString	Specifies the **WebClientReadFormQueryString** property.
item:WebClientEditFormQueryString	Specifies the **WebClientEditFormQueryString** property.
message:ConversationIndex	Specifies the **ConversationIndex** property. This property is also valid for postitem.
message:ConversationTopic	Specifies the **ConversationTopic** property. This property is also valid for postitem.
message:InternetMessageId	Specifies the **InternetMessageId** property. This property is also valid for postitem.
message:IsRead	Specifies the **IsRead** property.
message:IsResponseRequested	Specifies the **IsResponseRequested** property.
message:IsReadReceiptRequested	Specifies the **IsReadReceiptRequested** property.
message:IsDeliveryReceiptRequested	Specifies the **IsDeliveryReceiptRequested** property.
message:ReceivedBy	Specifies the **ReceivedBy** property.

Value	Description
message:ReceivedRepresenting	Specifies the **ReceivedRepresenting** property.
message:References	Specifies the **References** property. This property is also valid for postitem.
message:ReplyTo	Specifies the **ReplyTo** property.
message:From	Specifies the **From** property. This property is also valid for postitem.
message:Sender	Specifies the **Sender** property. This property is also valid for postitem.
message:ToRecipients	Specifies the **ToRecipients** property.
message:CcRecipients	Specifies the **CcRecipients** property.
message:BccRecipients	Specifies the **BccRecipients** property.
meeting:AssociatedCalendarItemId	Specifies the **AssociatedCalendarItemId** property.
meeting:IsDelegated	Specifies the **IsDelegated** property.
meeting:IsOutOfDate	Specifies the **IsOutOfDate** property.
meeting:HasBeenProcessed	Specifies the **HasBeenProcessed** property.
meeting:ResponseType	Specifies the **ResponseType** property.
meetingRequest:MeetingRequestType	Specifies the **MeetingRequestType** property.
meetingRequest:IntendedFreeBusyStatus	Specifies the **IntendedFreeBusyStatus** property.
calendar:Start	Specifies the **Start** property.
calendar:End	Specifies the **End** property.
calendar:OriginalStart	Specifies the **OriginalStart** property.
calendar:IsAllDayEvent	Specifies the **IsAllDayEvent** property.
calendar:LegacyFreeBusyStatus	Specifies the **LegacyFreeBusyStatus** property.
calendar:Location	Specifies the **Location** property.
calendar:When	Specifies the **When** property.
calendar:IsMeeting	Specifies the **IsMeeting** property.
calendar:IsCancelled	Specifies the **IsCancelled** property.
calendar:IsRecurring	Specifies the **IsRecurring** property.
calendar:MeetingRequestWasSent	Specifies the **MeetingRequestWasSent** property.
calendar:IsResponseRequested	Specifies the **IsResponseRequested** property.

Value	Description
calendar:CalendarItemType	Specifies the **CalendarItemType** property.
calendar:MyResponseType	Specifies the **MyResponseType** property.
calendar:Organizer	Specifies the **Organizer** property.
calendar:RequiredAttendees	Specifies the **RequiredAttendees** property.
calendar:OptionalAttendees	Specifies the **OptionalAttendees** property.
calendar:Resources	Specifies the **Resources** property.
calendar:ConflictingMeetingCount	Specifies the **ConflictingMeetingCount** property.
calendar:AdjacentMeetingCount	Specifies the **AdjacentMeetingCount** property.
calendar:ConflictingMeetings	Specifies the **ConflictingMeetings** property.
calendar:AdjacentMeetings	Specifies the **AdjacentMeetings** property.
calendar:Duration	Specifies the **Duration** property.
calendar:TimeZone	Specifies the **TimeZone** property.
calendar:AppointmentReplyTime	Specifies the **AppointmentReplyTime** property.
calendar:AppointmentSequenceNumber	Specifies the **AppointmentSequenceNumber** property.
calendar:AppointmentState	Specifies the **AppointmentState** property.
calendar:Recurrence	Specifies the **Recurrence** property.
calendar:FirstOccurrence	Specifies the **FirstOccurrence** property.
calendar:LastOccurrence	Specifies the **LastOccurrence** property.
calendar:ModifiedOccurrences	Specifies the **ModifiedOccurrences** property.
calendar:DeletedOccurrences	Specifies the **DeletedOccurrences** property.
calendar:MeetingTimeZone	Specifies the **MeetingTimeZone** property.
calendar:ConferenceType	Specifies the **ConferenceType** property.
calendar:AllowNewTimeProposal	Specifies the **AllowNewTimeProposal** property.
calendar:IsOnlineMeeting	Specifies the **IsOnlineMeeting** property.
calendar:MeetingWorkspaceUrl	Specifies the **MeetingWorkspaceUrl** property.
calendar:NetShowUrl	Specifies the **NetShowUrl** property.
calendar:UID	Specifies the **UID** property.
calendar:RecurrenceId	Specifies the **RecurrenceId** property.
calendar:DateTimeStamp	Specifies the **DateTimeStamp** property.

Value	Description
calendar:StartTimeZone	Specifies the **StartTimeZone** property.
calendar:EndTimeZone	Specifies the **EndTimeZone** property.
task:ActualWork	Specifies the **ActualWork** property.
task:AssignedTime	Specifies the **AssignedTime** property.
task:BillingInformation	Specifies the **BillingInformation** property.
task:ChangeCount	Specifies the **ChangeCount** property.
task:Companies	Specifies the **Companies** property.
task:CompleteDate	Specifies the **CompleteDate** property.
task:Contacts	Specifies the **Contacts** property.
task:DelegationState	Specifies the **DelegationState** property.
task:Delegator	Specifies the **Delegator** property.
task:DueDate	Specifies the **DueDate** property.
task:IsAssignmentEditable	Specifies the **IsAssignmentEditable** property.
task:IsComplete	Specifies the **IsComplete** property.
task:IsRecurring	Specifies the **IsRecurring** property.
task:IsTeamTask	Specifies the **IsTeamTask** property.
task:Mileage	Specifies the **Mileage** property.
task:Owner	Specifies the **Owner** property.
task:PercentComplete	Specifies the **PercentComplete** property.
task:Recurrence	Specifies the **Recurrence** property.
task:StartDate	Specifies the **StartDate** property.
task:Status	Specifies the **Status** property.
task:StatusDescription	Specifies the **StatusDescription** property.
task:TotalWork	Specifies the **TotalWork** property.
contacts:AssistantName	Specifies the **AssistantName** property.
contacts:Birthday	Specifies the **Birthday** property.
contacts:BusinessHomePage	Specifies the **BusinessHomePage** property.
contacts:Children	Specifies the **Children** property.
contacts:Companies	Specifies the **Companies** property.

Value	Description
contacts:CompanyName	Specifies the **CompanyName** property.
contacts:CompleteName	Specifies the **CompleteName** property.
contacts:ContactSource	Specifies the **ContactSource** property.
contacts:Culture	Specifies the **Culture** property.
contacts:Department	Specifies the **Department** property.
contacts:DisplayName	Specifies the **DisplayName** property.
contacts:EmailAddresses	Specifies the **EmailAddresses** property.
contacts:FileAs	Specifies the **FileAs** property.
contacts:FileAsMapping	Specifies the **FileAsMapping** property.
contacts:Generation	Specifies the **Generation** property.
contacts:GivenName	Specifies the **GivenName** property.
contacts:ImAddresses	Specifies the **ImAddresses** property.
contacts:Initials	Specifies the **Initials** property.
contacts:JobTitle	Specifies the **JobTitle** property.
contacts:Manager	Specifies the **Manager** property.
contacts:MiddleName	Specifies the **MiddleName** property.
contacts:Mileage	Specifies the **Mileage** property.
contacts:Nickname	Specifies the **Nickname** property.
contacts:OfficeLocation	Specifies the **OfficeLocation** property.
contacts:PhoneNumbers	Specifies the **PhoneNumbers** property.
contacts:PhysicalAddresses	Specifies the **PhysicalAddresses** property.
contacts:PostalAddressIndex	Specifies the **PostalAddressIndex** property.
contacts:Profession	Specifies the **Profession** property.
contacts:SpouseName	Specifies the **SpouseName** property.
contacts:Surname	Specifies the **Surname** property.
contacts:WeddingAnniversary	Specifies the **WeddingAnniversary** property.
contacts:HasPicture	Specifies if a contact has a picture.
distributionlist:Members	Specifies the **Members** property.
postitem:PostedTime	Specifies the **PostedTime** property.

Value	Description
conversation:ConversationId	Specifies the **ConversationId** property.
conversation:ConversationTopic	Specifies the **ConversationTopic** property.
conversation:UniqueRecipients	Specifies the **UniqueRecipients** property.
conversation:GlobalUniqueRecipients	Specifies the **GlobalUniqueRecipients** property.
conversation:UniqueUnreadSenders	Specifies the **UniqueUnreadSenders** property.
conversation:GlobalUniqueUnreadSenders	Specifies the **GlobalUniqueUnreadSenders** property.
conversation:UniqueSenders	Specifies the **UniqueSenders** property.
conversation:GlobalUniqueSenders	Specifies the **GlobalUniqueSenders** property.
conversation:LastDeliveryTime	Specifies the **LastDeliveryTime** property.
conversation:GlobalLastDeliveryTime	Specifies the **GlobalLastDeliveryTime** property.
conversation:Categories	Specifies the **Categories** property.
conversation:GlobalCategories	Specifies the **GlobalCategories** property.
conversation:FlagStatus	Specifies the **FlagStatus** property.
conversation:GlobalFlagStatus	Specifies the **GlobalFlagStatus** property.
conversation:HasAttachments	Specifies the **HasAttachments** property.
conversation:GlobalHasAttachments	Specifies the **GlobalHasAttachments** property.
conversation:MessageCount	Specifies the **MessageCount** property.
conversation:GlobalMessageCount	Specifies the **GlobalMessageCount** property.
conversation:UnreadCount	Specifies the **UnreadCount** property.
conversation:GlobalUnreadCount	Specifies the **GlobalUnreadCount** property.
conversation:Size	Specifies the **Size** property.
conversation:GlobalSize	Specifies the **GlobalSize** property.
conversation:ItemClasses	Specifies the **ItemClasses** property.
conversation:GlobalItemClasses	Specifies the **GlobalItemClasses** property.
conversation:Importance	Specifies the **Importance** property.
conversation:GlobalImportance	Specifies the **GlobalImportance** property.
conversation:ItemIds	Specifies the **ItemIds** property.
conversation:GlobalItemIds	Specifies the **GlobalItemIds** property.

2.2.3   Complex Types

2.2.3.1   t:AbsoluteMonthlyRecurrencePatternType Complex Type

The **AbsoluteMonthlyRecurrencePatternType** type specifies a monthly recurrence pattern.

```
<xs:complexType name="AbsoluteMonthlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:IntervalRecurrencePatternBaseType"
    >
      <xs:sequence>
        <xs:element name="DayOfMonth"
          type="xs:int"
         />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
DayOfMonth	xs:int	Specifies the day in a month that a recurring item occurs. This property MUST be present.

2.2.3.2   t:AbsoluteYearlyRecurrencePatternType Complex Type

The **AbsoluteYearlyRecurrencePatternType** type specifies a yearly recurrence pattern.

```
<xs:complexType name="AbsoluteYearlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:RecurrencePatternBaseType"
    >
      <xs:sequence>
        <xs:element name="DayOfMonth"
          type="xs:int"
         />
        <xs:element name="Month"
          type="t:MonthNamesType"
         />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
DayOfMonth	xs:int	Specifies the day in a month that a yearly recurring item occurs. This property MUST be present.
Month	t:MonthNamesType	Specifies the month in which a yearly recurring item occurs. This property MUST be present.

2.2.3.3   t:AcceptSharingInvitationType Complex Type

The AcceptSharingInvitationType complex type specifies a response object that is used for to respond to a sharing invitation request.

```
<xs:complexType name="AcceptSharingInvitationType">
  <xs:complexContent>
    <xs:extension
      base="t:ReferenceItemResponseType"
    />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.4   t:ArrayOfCalendarPermissionsType Complex Type

The ArrayOfCalendarPermissionsType complex type specifies an array of calendar permissions for a folder.

```
<xs:complexType name="ArrayOfCalendarPermissionsType">
  <xs:choice
    maxOccurs="unbounded"
    minOccurs="0"
  >
    <xs:element name="CalendarPermission"
      type="t:CalendarPermissionType"
    />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
CalendarPermission	t:CalendarPermissionType	Specifies the access that a **delegate** has to a calendar folder. This element MUST exist if calendar permissions are set on a calendar folder.

2.2.3.5   t:ArrayOfEmailAddressesType Complex Type

The ArrayOfEmailAddressesType complex type specifies a list of e-mail addresses in the GetRoomLists operation ([MS-OXWSGTRM] section 3.1.4.1) and GetMessageTrackingReport operation ([MS-OXWSMTRK] section 3.1.4.2) responses.

```
<xs:complexType name="ArrayOfEmailAddressesType">
  <xs:sequence>
    <xs:element name="Address"
      type="t:EmailAddressType"
      maxOccurs="unbounded"
      minOccurs="0"
      />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
Address	t:EmailAddressType	Specifies a single e-mail address.

2.2.3.6   t:ArrayOfPermissionsType Complex Type

The ArrayOfPermissionsType complex type specifies a collection of permissions for a folder.

```
<xs:complexType name="ArrayOfPermissionsType">
  <xs:choice
    minOccurs="0"
    maxOccurs="unbounded"
  >
    <xs:element name="Permission"
      type="t:PermissionType"
     />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
Permission	t:PermissionType	Specifies a single access permission that a delegate has to a folder. This element can occur zero or more times.

2.2.3.7   t:ArrayOfRealItemsType Complex Type

The ArrayOfRealItemsType complex type specifies an array of items that are returned by search and item operations. ArrayOfRealItemsType can contain zero or more elements that represent items.

```
<xs:complexType name="ArrayOfRealItemsType">
  <xs:sequence>
    <xs:choice
      minOccurs="0"
      maxOccurs="unbounded"
    >
      <xs:element name="Item"
        type="t:ItemType"
       />
```

```
          <xs:element name="Message"
            type="t:MessageType"
           />
          <xs:element name="CalendarItem"
            type="t:CalendarItemType"
           />
          <xs:element name="Contact"
            type="t:ContactItemType"
           />
          <xs:element name="DistributionList"
            type="t:DistributionListType"
           />
          <xs:element name="MeetingMessage"
            type="t:MeetingMessageType"
           />
          <xs:element name="MeetingRequest"
            type="t:MeetingRequestMessageType"
           />
          <xs:element name="MeetingResponse"
            type="t:MeetingResponseMessageType"
           />
          <xs:element name="MeetingCancellation"
            type="t:MeetingCancellationMessageType"
           />
          <xs:element name="Task"
            type="t:TaskType"
           />
          <xs:element name="PostItem"
            type="t:PostItemType"
           />
        </xs:choice>
      </xs:sequence>
    </xs:complexType>
```

Child Elements

Element	Type	Description
Item	t:ItemType	This element MUST NOT be used in response messages. All items of type t:ItemType ([MS-OXWSCORE] section 2.2.3.6) MUST be returned as a t:MessageType type ([MS-OXWSMSG] section 2.2.4.1).
Message	t:MessageType	Specifies a message item or other item that is not represented by the <CalendarItem>, <Contact>, <DistributionList>, <MeetingMessage>, <MeetingRequest>, <MeetingResponse>, <MeetingCancellation>, <Task>, or <PostItem> elements.
CalendarItem	t:CalendarItemType	Specifies a calendar item.
Contact	t:ContactItemType	Specifies a contact item.
DistributionList	t:DistributionListType	Specifies a distribution list item.

Element	Type	Description
MeetingMessage	t:MeetingMessageType	Specifies a meeting message item.
MeetingRequest	t:MeetingRequestMessageType	Specifies a meeting request message item.
MeetingResponse	t:MeetingResponseMessageType	Specifies a meeting response message item.
MeetingCancellation	t:MeetingCancellationMessageType	Specifies a meeting cancellation message item.
Task	t:TaskType	Specifies a task item.
PostItem	t:PostItemType	Specifies a post item.

2.2.3.8   t:ArrayOfRecipientsType Complex Type

The ArrayOfRecipientsType complex type specifies an array of recipients of an item.

```
<xs:complexType name="ArrayOfRecipientsType">
  <xs:choice
    maxOccurs="unbounded"
    minOccurs="0"
  >
    <xs:element name="Mailbox"
      type="t:EmailAddressType"
      />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
Mailbox	t:EmailAddressType	Specifies a single item recipient by e-mail address.

2.2.3.9   m:ArrayOfResponseMessagesType Complex Type

The **ArrayOfResponseMessagesType** complex type specifies an array of response messages.

```
<xs:complexType name="ArrayOfResponseMessagesType">
  <xs:choice
    maxOccurs="unbounded"
  >
    <xs:element name="CreateItemResponseMessage"
      type="m:ItemInfoResponseMessageType"
      />
    <xs:element name="DeleteItemResponseMessage"
      type="m:ResponseMessageType"
      />
    <xs:element name="GetItemResponseMessage"
      type="m:ItemInfoResponseMessageType"
      />
    <xs:element name="UpdateItemResponseMessage"
      type="m:UpdateItemResponseMessageType"
```

```
    />
<xs:element name="SendItemResponseMessage"
  type="m:ResponseMessageType"
 />
<xs:element name="DeleteFolderResponseMessage"
  type="m:ResponseMessageType"
 />
<xs:element name="EmptyFolderResponseMessage"
  type="m:ResponseMessageType"
 />
<xs:element name="CreateFolderResponseMessage"
  type="m:FolderInfoResponseMessageType"
 />
<xs:element name="GetFolderResponseMessage"
  type="m:FolderInfoResponseMessageType"
 />
<xs:element name="FindFolderResponseMessage"
  type="m:FindFolderResponseMessageType"
 />
<xs:element name="UpdateFolderResponseMessage"
  type="m:FolderInfoResponseMessageType"
 />
<xs:element name="MoveFolderResponseMessage"
  type="m:FolderInfoResponseMessageType"
 />
<xs:element name="CopyFolderResponseMessage"
  type="m:FolderInfoResponseMessageType"
 />
<xs:element name="CreateAttachmentResponseMessage"
  type="m:AttachmentInfoResponseMessageType"
 />
<xs:element name="DeleteAttachmentResponseMessage"
  type="m:DeleteAttachmentResponseMessageType"
 />
<xs:element name="GetAttachmentResponseMessage"
  type="m:AttachmentInfoResponseMessageType"
 />
<xs:element name="UploadItemsResponseMessage"
  type="m:UploadItemsResponseMessageType"
 />
<xs:element name="ExportItemsResponseMessage"
  type="m:ExportItemsResponseMessageType"
 />
<xs:element name="FindItemResponseMessage"
  type="m:FindItemResponseMessageType"
 />
<xs:element name="MoveItemResponseMessage"
  type="m:ItemInfoResponseMessageType"
 />
<xs:element name="CopyItemResponseMessage"
  type="m:ItemInfoResponseMessageType"
 />
<xs:element name="ResolveNamesResponseMessage"
  type="m:ResolveNamesResponseMessageType"
 />
<xs:element name="ExpandDLResponseMessage"
  type="m:ExpandDLResponseMessageType"
 />
<xs:element name="GetServerTimeZonesResponseMessage"
```

```
            type="m:GetServerTimeZonesResponseMessageType"
  />
  <xs:element name="GetEventsResponseMessage"
    type="m:GetEventsResponseMessageType"
  />
  <xs:element name="GetStreamingEventsResponseMessage"
    type="m:GetStreamingEventsResponseMessageType"
  />
  <xs:element name="SubscribeResponseMessage"
    type="m:SubscribeResponseMessageType"
  />
  <xs:element name="UnsubscribeResponseMessage"
    type="m:ResponseMessageType"
  />
  <xs:element name="SendNotificationResponseMessage"
    type="m:SendNotificationResponseMessageType"
  />
  <xs:element name="SyncFolderHierarchyResponseMessage"
    type="m:SyncFolderHierarchyResponseMessageType"
  />
  <xs:element name="SyncFolderItemsResponseMessage"
    type="m:SyncFolderItemsResponseMessageType"
  />
  <xs:element name="CreateManagedFolderResponseMessage"
    type="m:FolderInfoResponseMessageType"
  />
  <xs:element name="ConvertIdResponseMessage"
    type="m:ConvertIdResponseMessageType"
  />
  <xs:element name="GetSharingMetadataResponseMessage"
    type="m:GetSharingMetadataResponseMessageType"
  />
  <xs:element name="RefreshSharingFolderResponseMessage"
    type="m:RefreshSharingFolderResponseMessageType"
  />
  <xs:element name="GetSharingFolderResponseMessage"
    type="m:GetSharingFolderResponseMessageType"
  />
  <xs:element name="CreateUserConfigurationResponseMessage"
    type="m:ResponseMessageType"
  />
  <xs:element name="DeleteUserConfigurationResponseMessage"
    type="m:ResponseMessageType"
  />
  <xs:element name="GetUserConfigurationResponseMessage"
    type="m:GetUserConfigurationResponseMessageType"
  />
  <xs:element name="UpdateUserConfigurationResponseMessage"
    type="m:ResponseMessageType"
  />
  <xs:element name="GetRoomListsResponse"
    type="m:GetRoomListsResponseMessageType"
  />
  <xs:element name="GetRoomsResponse"
    type="m:GetRoomsResponseMessageType"
  />
  <xs:element name="ApplyConversationActionResponseMessage"
    type="m:ResponseMessageType"
  />
```

```
        </xs:choice>
    </xs:complexType>
```

Child Elements

Element	Type	Description
CreateItemResponseMessage	**m:ItemInfoResponseMessageType**	Specifies the response message for the **CreateItem** operation ([MS-OXWSCORE] section 3.1.4.2).
DeleteItemResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **DeleteItem** operation ([MS-OXWSCORE] section 3.1.4.3).
GetItemResponseMessage	**m:ItemInfoResponseMessageType**	Specifies the response message for the **GetItem** operation ([MS-OXWSCORE] section 3.1.4.4).
UpdateItemResponseMessage	**m:UpdateItemResponseMessageType**	Specifies the response message for the **UpdateItem** operation ([MS-OXWSCORE] section 3.1.4.7).
SendItemResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **SendItem** operation ([MS-OXWSCORE] section 3.1.4.6).
DeleteFolderResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **DeleteFolder** operation ([MS-OXWSFOLD] section 3.1.4.4).
EmptyFolderResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **EmptyFolder** operation.<9>
CreateFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response message for the **CreateFolder** operation ([MS-OXWSFOLD] section 3.1.4.2).
GetFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response

Element	Type	Description
		message for the **GetFolder** operation ([MS-OXWSFOLD] section 3.1.4.6).
FindFolderResponseMessage	**m:FindFolderResponseMessageType**	Specifies the response message for the **FindFolder** operation ([MS-OXWSSRCH] section 3.1.4.1).
UpdateFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response message for the **UpdateFolder** operation ([MS-OXWSFOLD] section 3.1.4.8).
MoveFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response message for the **MoveFolder** operation ([MS-OXWSFOLD] section 3.1.4.7).
CopyFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response message for the **CopyFolder** operation ([MS-OXWSFOLD] section 3.1.4.1).
CreateAttachmentResponseMessage	**m:AttachmentInfoResponseMessageType**	Specifies the response message for the **CreateAttachment** operation ([MS-OXWSATT] section 3.1.4.1).
DeleteAttachmentResponseMessage	**m:DeleteAttachmentResponseMessageType**	Specifies the response message for the **DeleteAttachment** operation ([MS-OXWSATT] section 3.1.4.2).
GetAttachmentResponseMessage	**m:AttachmentInfoResponseMessageType**	Specifies the response message for the **GetAttachment** operation ([MS-OXWSATT] section 3.1.4.3).
UploadItemsResponseMessage	**m:UploadItemsResponseMessageType**	Specifies the response message for the **UploadItems** operation ([MS-OXWSBTRF] section 3.1.4.2).<10>

Element	Type	Description
ExportItemsResponseMessage	**m:ExportItemsResponseMessageType**	Specifies the response message for the **ExportItems** operation ([MS-OXWSBTRF] section 3.1.4.1).<11>
FindItemResponseMessage	**m:FindItemResponseMessageType**	Specifies the response message for the **FindItem** operation ([MS-OXWSSRCH] section 3.1.4.2).
MoveItemResponseMessage	**m:ItemInfoResponseMessageType**	Specifies the response message for the **MoveItem** operation ([MS-OXWSCORE] section 3.1.4.5).
CopyItemResponseMessage	**m:ItemInfoResponseMessageType**	Specifies the response message for the **CopyItem** operation ([MS-OXWSCORE] section 3.1.4.1).
ResolveNamesResponseMessage	**m:ResolveNamesResponseMessageType**	Specifies the response message for the **ResolveNames** operation ([MS-OXWSRSLNM] section 3.1.4.1).
ExpandDLResponseMessage	**m:ExpandDLResponseMessageType**	Specifies the response message for the **ExpandDL** operation ([MS-OXWSDLIST] section 3.1.4.1).
GetServerTimeZonesResponseMessage	**m:GetServerTimeZonesResponseMessageType**	Specifies the response message for the **GetServerTimeZones** operation ([MS-OXWSGTZ] section 3.1.4.1).
GetEventsResponseMessage	**m:GetEventsResponseMessageType**	Specifies the response message for the **GetEvents** operation ([MS-OXWSNTIF] section 3.1.4.1).
GetStreamingEventsResponseMessage	**m:GetStreamingEventsResponseMessageType**	Specifies the response message for the **GetStreamingEvents** operation ([MS-OXWSNTIF] section 3.1.4.2).<12>

Element	Type	Description
SubscribeResponseMessage	**m:SubscribeResponseMessageType**	Specifies the response message for the **Subscribe** operation ([MS-OXWSNTIF] section 3.1.4.3).
UnsubscribeResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **Unsubscribe** operation ([MS-OXWSNTIF] section 3.1.4.4).
SendNotificationResponseMessage	**m:SendNotificationResponseMessageType**	Specifies the response message for the **SendNotification** operation ([MS-OXWSPSNTIF] section 3.1.4.1).
SyncFolderHierarchyResponseMessage	**m:SyncFolderHierarchyResponseMessageType**	Specifies the response message for the **SyncFolderHierarchy** operation ([MS-OXWSSYNC] section 3.1.4.1).
SyncFolderItemsResponseMessage	**m:SyncFolderItemsResponseMessageType**	Specifies the response message for the **SyncFolderItems** operation ([MS-OXWSSYNC] section 3.1.4.2).
CreateManagedFolderResponseMessage	**m:FolderInfoResponseMessageType**	Specifies the response message for the **CreateManagedFolder** operation ([MS-OXWSFOLD] section 3.1.4.3).
ConvertIdResponseMessage	**m:ConvertIdResponseMessageType**	Specifies the response message for the **ConvertId** operation ([MS-OXWSCVTID] section 3.1.4.1).
GetSharingMetadataResponseMessage	**m:GetSharingMetadataResponseMessageType**	Specifies the response message for the **GetSharingMetadata** operation ([MS-OXWSMSHR] section 3.1.4.4).
RefreshSharingFolderResponseMessage	**m:RefreshSharingFolderResponseMessageType**	Specifies the response message for the **RefreshSharingFolder** operation ([MS-

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Element	Type	Description
		OXWSMSHR] section 3.1.4.5).
GetSharingFolderResponseMessage	**m:GetSharingFolderResponseMessageType**	Specifies the response message for the **GetSharingFolder** operation ([MS-OXWSMSHR] section 3.1.4.3).
CreateUserConfigurationResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **CreateUserConfiguration** operation ([MS-OXWSUSRCFG] section 3.1.4.1).
DeleteUserConfigurationResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **DeleteUserConfiguration** operation ([MS-OXWSUSRCFG] section 3.1.4.2).
GetUserConfigurationResponseMessage	**m:GetUserConfigurationResponseMessageType**	Specifies the response message for the **GetUserConfiguration** operation ([MS-OXWSUSRCFG] section 3.1.4.3).
UpdateUserConfigurationResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **UpdateUserConfiguration** operation ([MS-OXWSUSRCFG] section 3.1.4.4).
GetRoomListsResponse	**m:GetRoomListsResponseMessageType**	Specifies the response message for the **GetRoomLists** operation ([MS-OXWSGTRM] section 3.1.4.1).
GetRoomsResponse	**m:GetRoomsResponseMessageType**	Specifies the response message for the **GetRooms** operation ([MS-OXWSGTRM] section 3.1.4.2).
ApplyConversationActionResponseMessage	**m:ResponseMessageType**	Specifies the response message for the **ApplyConversationAction** operation ([MS-OXWSCONV] section 3.1.4.2).<13>

2.2.3.10   t:ArrayOfStringsType Complex Type

The [ArrayOfStringsType](#) complex type specifies a data structure that can contain zero or more strings.

```
<xs:complexType name="ArrayOfStringsType">
  <xs:sequence>
    <xs:element name="String"
      type="xs:string"
      minOccurs="0"
      maxOccurs="unbounded"
    />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
String	xs:string	Specifies a single string of data.

2.2.3.11   t:BaseEmailAddressType Complex Type

The **BaseEmailAddressType** type specifies the base type for the [t:EmailAddressType](#) type.

```
<xs:complexType name="BaseEmailAddressType" />
```

2.2.3.12   t:BaseItemIdType Complex Type

The **BaseItemIdType** type specifies the base type for identifiers that represent items in a mailbox. The **BaseItemIdType** type MUST NOT be sent in a SOAP message because it is an abstract type.

```
<xs:complexType name="BaseItemIdType"
  abstract="true"
 />
```

2.2.3.13   t:BasePathToElementType Complex Type

The **BasePathToElementType** type specifies the base type to types that specify additional properties. The **BasePathToElementType** type MUST NOT be sent in a SOAP message because it is an abstract type.

```
<xs:complexType name="BasePathToElementType"
  abstract="true"
 />
```

2.2.3.14   t:BaseRequestType Complex Type

The **BaseRequestType** type specifies the base type for requests. The **BaseRequestType** type MUST NOT be sent in a SOAP message because it is an abstract type.

```
<xs:complexType name="BaseRequestType"
  abstract="true"
 />
```

2.2.3.15   t:BaseResponseMessageType Complex Type

The BaseResponseMessageType complex type specifies the base response message for responses. The BaseResponseMessageType complex type MUST NOT be sent in a SOAP message because it is an abstract type.

```
<xs:complexType name="BaseResponseMessageType">
  <xs:sequence>
    <xs:element name="ResponseMessages"
      type="m:ArrayOfResponseMessagesType"
     />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
ResponseMessages	m:ArrayOfResponseMessagesType	Specifies an array of response messages. There MUST be only one <ResponseMessages> element in a response.

2.2.3.16   t:BodyType Complex Type

The **BodyType** type specifies the body content and body content format of an item.

```
<xs:complexType name="BodyType">
  <xs:simpleContent>
    <xs:extension
      base="xs:string"
    >
      <xs:attribute name="BodyType"
        type="t:BodyTypeType"
       />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Attributes

Name	Type	Description
BodyType	t:BodyTypeType	Specifies the body content format.

2.2.3.17   t:ConnectingSIDType Complex Type

The ConnectingSIDType complex type specifies the account to impersonate.

```
<xs:complexType name="ConnectingSIDType">
  <xs:choice>
    <xs:element name="PrincipalName"
      type="t:NonEmptyStringType"
     />
    <xs:element name="SID"
      type="t:NonEmptyStringType"
     />
    <xs:element name="PrimarySmtpAddress"
      type="t:NonEmptyStringType"
     />
    <xs:element name="SmtpAddress"
      type="t:NonEmptyStringType"
     />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
PrincipalName	t:NonEmptyStringType	Specifies the user principal name (UPN) for the account to use for impersonation.
SID	t:NonEmptyStringType	Specifies the security descriptor definition language (SDDL) form of the security identifier (SID) for the account to use for impersonation.
PrimarySmtpAddress	t:NonEmptyStringType	Specifies the primary **SMTP** address of the account to use for impersonation.
SmtpAddress	t:NonEmptyStringType	Specifies an SMTP address of the account to use for impersonation.

Only one of the elements specified in the **ConnectingSIDType** MUST exist in an impersonation request.

2.2.3.18   t:ConstantValueType Complex Type

The **ConstantValueType** type specifies a constant value for a search restriction.

```
<xs:complexType name="ConstantValueType">
  <xs:attribute name="Value"
    type="xs:string"
    use="required"
   />
```

```
</xs:complexType>
```

Attributes

Name	Type	Description
Value	xs:string	Specifies the value to compare in a restriction.

2.2.3.19   t:DailyRecurrencePatternType Complex Type

The **DailyRecurrencePatternType** type specifies the frequency, in days, in which a calendar item or a task recurs.

```
<xs:complexType name="DailyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:IntervalRecurrencePatternBaseType"
     />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.20   t:DeletedOccurrenceInfoType Complex Type

The **DeletedOccurrenceInfoType** type specifies a deleted occurrence of a recurring calendar item.

```
<xs:complexType name="DeletedOccurrenceInfoType">
  <xs:sequence>
    <xs:element name="Start"
      type="xs:dateTime"
     />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
Start	xs:dateTime	Specifies the start time of a deleted occurrence of a recurring calendar item.

2.2.3.21   t:DistinguishedFolderIdType Complex Type

The DistinguishedFolderIdType complex type specifies a distinguished folder identified by name.

```
<xs:complexType name="DistinguishedFolderIdType">
  <xs:complexContent>
    <xs:extension
      base="t:BaseFolderIdType"
    >
      <xs:sequence>
```

```
      <xs:element name="Mailbox"
        type="t:EmailAddressType"
        minOccurs="0"
        />
    </xs:sequence>
    <xs:attribute name="Id"
      type="t:DistinguishedFolderIdNameType"
      use="required"
     />
    <xs:attribute name="ChangeKey"
      type="xs:string"
      use="optional"
      />
  </xs:extension>
 </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
Mailbox	t:EmailAddressType	Specifies the primary SMTP address of a principal for a delegate access scenario. This element MUST exist to initiate delegate access.

Attributes

Name	Type	Description
Id	t:DistinguishedFolderIdNameType	Specifies the identifier of a distinguished folder. This attribute MUST exist.
ChangeKey	xs:string	Specifies the change key of a distinguished folder.

2.2.3.22   t:Duration Complex Type

The **Duration** complex type specifies a time interval.

```
<xs:complexType name="Duration">
  <xs:sequence>
    <xs:element name="StartTime"
      type="xs:dateTime"
      maxOccurs="1"
      minOccurs="1"
     />
    <xs:element name="EndTime"
      type="xs:dateTime"
      maxOccurs="1"
      minOccurs="1"
      />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
StartTime	xs:dateTime	Specifies the start of a time window. This element MUST be present.
EndTime	xs:dateTime	Specifies the end of a time window. This element MUST be present.

Restriction: **EndTime** MUST be greater than the <StartTime>. Times specified MUST be in **Coordinated Universal Time (UTC)**.

2.2.3.23   t:EffectiveRightsType Complex Type

The **EffectiveRightsType** complex type specifies client rights based on the permission settings for an item or folder.

```
<xs:complexType name="EffectiveRightsType">
  <xs:sequence>
    <xs:element name="CreateAssociated"
      type="xs:boolean"
     />
    <xs:element name="CreateContents"
      type="xs:boolean"
     />
    <xs:element name="CreateHierarchy"
      type="xs:boolean"
     />
    <xs:element name="Delete"
      type="xs:boolean"
     />
    <xs:element name="Modify"
      type="xs:boolean"
     />
    <xs:element name="Read"
      type="xs:boolean"
     />
    <xs:element name="ViewPrivateItems"
      type="xs:boolean"
     />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
CreateAssociated	xs:boolean	Specifies whether a client can create an associated contents table. The **xs:boolean** type is specified in [XMLSCHEMA2].
CreateContents	xs:boolean	Specifies whether a client can create a contents table.
CreateHierarchy	xs:boolean	Specifies whether a client can create a hierarchy table.
Delete	xs:boolean	Specifies whether a client can delete a folder or item.
Modify	xs:boolean	Specifies whether a client can modify a folder or item.

Element	Type	Description
Read	xs:boolean	Specifies whether a client can read a folder or item.
ViewPrivateItems	xs:boolean	Specifies whether a client can read private items.<14>

2.2.3.24   t:EmailAddress

The **EmailAddress** type specifies the name and address of the user.

```
<xs:complexType name="EmailAddress">
<xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
      <xs:element minOccurs="1" maxOccurs="1" name="Address" type="xs:string" />
      <xs:element minOccurs="0" maxOccurs="1" name="RoutingType" type="xs:string" />
    </xs:sequence>
</xs:complexType>
```

Element	Type	Definition
Name	**xs:string**	Represents the name of the attendee. Can be present.
Address	**xs:string**	Represents the e-mail address of the attendee. MUST be present and MUST be a Simple Mail Transfer Protocol (SMTP) address.
RoutingType	**xs:string**	Represents the routing protocol for the e-mail address. Can be present.

2.2.3.25   t:EmailAddessType Complex Type

The EmailAddressType complex type specifies an e-mail address.

```
<xs:complexType name="EmailAddressType">
  <xs:complexContent>
    <xs:extension
      base="t:BaseEmailAddressType"
    >
      <xs:sequence>
        <xs:element name="Name"
          type="xs:string"
          minOccurs="0"
         />
        <xs:element name="EmailAddress"
          type="t:NonEmptyStringType"
          minOccurs="0"
         />
        <xs:element name="RoutingType"
          type="t:NonEmptyStringType"
          minOccurs="0"
         />
        <xs:element name="MailboxType"
          type="t:MailboxTypeType"
          minOccurs="0"
```

```
          />
        <xs:element name="ItemId"
          type="t:ItemIdType"
          minOccurs="0"
          />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
Name	xs:string	Specifies the name of the mailbox that is associated with the e-mail address that is specified by the <EmailAddress> element.
EmailAddress	t:NonEmptyStringType	Specifies an e-mail address.
RoutingType	t:NonEmptyStringType	Specifies the type of routing for the e-mail address that is specified in the <EmailAddress> element.
MailboxType	t:MailboxTypeType	Specifies the type of mailbox that is represented by the EmailAddressType complex type.
ItemId	t:ItemIdType	Specifies the item identifier for the e-mail address that is represented by the EmailAddressType complex type.

2.2.3.26   t:EndDateRecurrenceRangeType Complex Type

The **EndDateRecurrenceRangeType** type specifies the start date and the end date of an item recurrence pattern.

```
<xs:complexType name="EndDateRecurrenceRangeType">
  <xs:complexContent>
    <xs:extension
      base="t:RecurrenceRangeBaseType"
    >
      <xs:sequence>
        <xs:element name="EndDate"
          type="xs:date"
          />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
EndDate	xs:date	Specifies the end date of a recurrence pattern.

2.2.3.27   t:ExchangeImpersonationType Complex Type

The **ExchangeImpersonationType** type specifies the user to impersonate.

```
<xs:complexType name="ExchangeImpersonationType">
  <xs:sequence>
    <xs:element name="ConnectingSID"
      type="t:ConnectingSIDType"
     />
  </xs:sequence>
  <xs:anyAttribute
    namespace="http://schemas.xmlsoap.org/soap/envelope/"
   />
</xs:complexType>
```

Child Elements

Element	Type	Description
ConnectingSID	t:ConnectingSIDType	Specifies the account to impersonate. This element MUST exist for impersonation.

2.2.3.28   t:FieldURIOrConstantType Complex Type

The FieldURIOrConstantType complex type specifies either a property or a constant value to be used when comparing with another property.

```
<xs:complexType name="FieldURIOrConstantType">
  <xs:choice>
    <xs:element
      ref="t:Path"
     />
    <xs:element name="Constant"
      type="t:ConstantValueType"
     />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
t:Path	t:Path	Specifies the property to use in a two-operand search expression. The t:Path element (section 2.2.4.6) specifies a **substitutionGroup** attribute, as specified in [XMLSCHEMA0]. An element that is represented by the **substitutionGroup** attribute of the t:Path element MUST be present.
Constant	t:ConstantValueType	Specifies a constant to use in a two-operand search expression.

2.2.3.29   t:FolderIdType Complex Type

The FolderIdType complex type specifies a folder identifier.

```
<xs:complexType name="FolderIdType">
  <xs:complexContent>
    <xs:extension
      base="t:BaseFolderIdType"
    >
      <xs:attribute name="Id"
        type="xs:string"
        use="required"
      />
      <xs:attribute name="ChangeKey"
        type="xs:string"
        use="optional"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attributes

Name	Type	Description
Id	xs:string	Specifies a folder identifier.
ChangeKey	xs:string	Specifies a change key.

2.2.3.30   t:FolderResponseShapeType Complex Type

The **FolderResponseShapeType** type specifies the properties that are returned in a response in a SyncFolderHierarchy operation ([MS-OXWSSYNC] section 3.1.4.1), GetFolder operation ([MS-OXWSFOLD] section 3.1.4.6), and FindFolder operation ([MS-OXWSSRCH] section 3.1.4.1).

```
<xs:complexType name="FolderResponseShapeType">
  <xs:sequence>
    <xs:element name="BaseShape"
      type="t:DefaultShapeNamesType"
    />
    <xs:element name="AdditionalProperties"
      type="t:NonEmptyArrayOfPathsToElementType"
    />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
BaseShape	t:DefaultShapeNamesType	Specifies the basic configuration of properties to return in a response.

Element	Type	Description
AdditionalProperties	t:NonEmptyArrayOfPathsToElementType	Specifies the identity of additional properties to return in a response.

2.2.3.31   t:ForwardItemType Complex Type

The ForwardItemType complex type specifies a response object for forwarding messages and meeting messages to other recipients.

```
<xs:complexType name="ForwardItemType">
  <xs:complexContent>
    <xs:extension
      base="t:SmartResponseType"
     />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.32   t:InternetHeaderType Complex Type

The InternetHeaderType complex type specifies the Internet message header for a given header within the headers collection.

```
<xs:complexType name="InternetHeaderType">
  <xs:simpleContent>
    <xs:extension
      base="xs:string"
    >
      <xs:attribute name="HeaderName"
        type="xs:string"
        use="required"
       />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Attributes

Name	Type	Description
HeaderName	xs:string	Specifies the name of the header.

2.2.3.33   t:IntervalRecurrencePatternBaseType Complex Type

The **IntervalRecurrencePatternBaseType** type specifies the base type for non-yearly recurrence patterns.

```
<xs:complexType name="IntervalRecurrencePatternBaseType"
  abstract="true"
>
  <xs:complexContent>
```

```
        <xs:extension
          base="t:RecurrencePatternBaseType"
        >
          <xs:sequence>
            <xs:element name="Interval"
              type="xs:int"
              />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
```

Child Elements

Element	Type	Description
Interval	xs:int	Specifies the interval between two consecutive recurring items.

2.2.3.34   m:ItemInfoResponseMessageType Complex Type

The **ItemInfoResponseMessageType** type specifies the response message for operations that create, update, or delete items.

```
    <xs:complexType name="ItemInfoResponseMessageType">
      <xs:complexContent>
        <xs:extension
          base="m:ResponseMessageType"
        >
          <xs:sequence>
            <xs:element name="Items"
              type="t:ArrayOfRealItemsType"
              />
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
```

Child Elements

Element	Type	Description
Items	t:ArrayOfRealItemsType	Specifies an array of **real items**.

2.2.3.35   t:ItemResponseShapeType Complex Type

The **ItemResponseShapeType** complex type specifies a set of properties to return in a **GetItem** operation ([MS-OXWSCORE] section 3.1.4.4), **FindItem** operation ([MS-OXWSSRCH] section 3.1.4.2), or **SyncFolderItems** operation ([MS-OXWSSYNC] section 3.1.4.2) response.

```
    <xs:complexType name="ItemResponseShapeType">
      <xs:sequence>
        <xs:element name="BaseShape"
```

```
       type="t:DefaultShapeNamesType"
     />
    <xs:element name="IncludeMimeContent"
      type="xs:boolean"
      minOccurs="0"
     />
    <xs:element name="BodyType"
      type="t:BodyTypeResponseType"
      minOccurs="0"
     />
    <xs:element name="FilterHtmlContent"
      type="xs:boolean"
      maxOccurs="1"
      minOccurs="0"
     />
    <xs:element name="ConvertHtmlCodePageToUTF8"
      type="xs:boolean"
      minOccurs="0"
     />
    <xs:element name="AdditionalProperties"
      type="t:NonEmptyArrayOfPathsToElementType"
      minOccurs="0"
     />
  </xs:sequence>
 </xs:complexType>
```

Child Elements

Element	Type	Description
BaseShape	**t:DefaultShapeNamesType**	Specifies the requested base properties to return in a response. This element MUST be present. The **DefaultShapeNamesType** simple type is specified in section 2.2.2.6.
IncludeMimeContent	xs:boolean	Specifies whether the **MIME** content of an item is returned in a response. The **xs:boolean** type is specified in [XMLSCHEMA2].
BodyType	**t:BodyTypeResponseType**	Specifies the requested body text format for the Body property that is returned in a response. If this element is not present, then the server MUST use the default value of "default". The **BodyTypeResponseType** simple type is specified in section 2.2.2.1.

Element	Type	Description
FilterHtmlContent	xs:boolean	Specifies whether HTML content filtering is enabled. If this value is set to **true**, script blocks and Web beacons MUST be removed from message bodies that are returned in a response.
ConvertHtmlCodePageToUTF8	xs:boolean	Specifies whether the item HTML body is converted to UTF8. The value of this element MUST be set to **true** or the element MUST NOT be specified to indicate to the server to convert the HTML code page to UTF8. <15>
AdditionalProperties	**t:NonEmptyArrayOfPathsToElementType**	Specifies a set of requested additional properties to return in a response.

2.2.3.36   t:MailboxCultureType Complex Type

The MailboxCultureType complex type specifies the culture to use when opening a mailbox.

```
<xs:complexType name="MailboxCultureType">
  <xs:simpleContent>
    <xs:extension
      base="xs:language"
    >
      <xs:anyAttribute
        namespace="http://schemas.xmlsoap.org/soap/envelope/"
      />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

The text value indicates the language that is used. The possible values for this element are specified in [RFC3066].

2.2.3.37   t:NoEndRecurrenceRangeType Complex Type

The NoEndRecurrenceRangeType complex type specifies the start date of an item recurrence pattern that does not have a defined end date.

```
<xs:complexType name="NoEndRecurrenceRangeType">
  <xs:complexContent>
    <xs:extension
      base="t:RecurrenceRangeBaseType"
    />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.38   t:NonEmptyArrayOfAllItemsType Complex Type

The **NonEmptyArrayOfAllItemsType** type specifies an array of store items and response objects.

```
<xs:complexType name="NonEmptyArrayOfAllItemsType">
  <xs:sequence>
    <xs:choice
      minOccurs="1"
      maxOccurs="unbounded"
    >
      <xs:element name="Item"
        type="t:ItemType"
       />
      <xs:element name="Message"
        type="t:MessageType"
       />
      <xs:element name="CalendarItem"
        type="t:CalendarItemType"
       />
      <xs:element name="Contact"
        type="t:ContactItemType"
       />
      <xs:element name="DistributionList"
        type="t:DistributionListType"
       />
      <xs:element name="MeetingMessage"
        type="t:MeetingMessageType"
       />
      <xs:element name="MeetingRequest"
        type="t:MeetingRequestMessageType"
       />
      <xs:element name="MeetingResponse"
        type="t:MeetingResponseMessageType"
       />
      <xs:element name="MeetingCancellation"
        type="t:MeetingCancellationMessageType"
       />
      <xs:element name="Task"
        type="t:TaskType"
       />
      <xs:element name="PostItem"
        type="t:PostItemType"
       />
      <xs:element name="ReplyToItem"
        type="t:ReplyToItemType"
       />
      <xs:element name="ForwardItem"
        type="t:ForwardItemType"
       />
      <xs:element name="ReplyAllToItem"
        type="t:ReplyAllToItemType"
       />
      <xs:element name="AcceptItem"
        type="t:AcceptItemType"
       />
```

```
                   <xs:element name="TentativelyAcceptItem"
                     type="t:TentativelyAcceptItemType"
                    />
                   <xs:element name="DeclineItem"
                     type="t:DeclineItemType"
                    />
                   <xs:element name="CancelCalendarItem"
                     type="t:CancelCalendarItemType"
                    />
                   <xs:element name="RemoveItem"
                     type="t:RemoveItemType"
                    />
                   <xs:element name="SuppressReadReceipt"
                     type="t:SuppressReadReceiptType"
                    />
                   <xs:element name="PostReplyItem"
                     type="t:PostReplyItemType"
                    />
                   <xs:element name="AcceptSharingInvitation"
                     type="t:AcceptSharingInvitationType"
                    />
            </xs:choice>
          </xs:sequence>
       </xs:complexType>
```

Child Elements

Element	Type	Description
Item	t:ItemType	Specifies an item.
Message	t:MessageType	Specifies a message item.
CalendarItem	t:CalendarItemType	Specifies a calendar item.
Contact	t:ContactItemType	Specifies a contact item.
DistributionList	t:DistributionListType	Specifies a distribution list item.
MeetingMessage	t:MeetingMessageType	Specifies a meeting message item.
MeetingRequest	t:MeetingRequestMessageType	Specifies a meeting request message item.
MeetingResponse	t:MeetingResponseMessageType	Specifies a meeting response message item.
MeetingCancellation	t:MeetingCancellationMessageType	Specifies a meeting cancellation message item.
Task	t:TaskType	Specifies a task item.
PostItem	t:PostItemType	Specifies a post item.
ReplyToItem	t:ReplyToItemType	Specifies a ReplyToItem response object.
ForwardItem	t:ForwardItemType	Specifies a ForwardItem response object.

Element	Type	Description
ReplyAllToItem	t:ReplyAllToItemType	Specifies a ReplyToAllItem response object.
AcceptItem	t:AcceptItemType	Specifies an AcceptItem response object.
TentativelyAcceptItem	t:TentativelyAcceptItemType	Specifies a TentativelyAcceptItem response object.
DeclineItem	t:DeclineItemType	Specifies a DeclineItem response object.
CancelCalendarItem	t:CancelCalendarItemType	Specifies a CancelCalendarItem response object.
RemoveItem	t:RemoveItemType	Specifies a RemoveItem response object.
SuppressReadReceipt	t:SuppressReadReceiptType	Specifies a SuppressReadReceipt response object.
PostReplyItem	t:PostReplyItemType	Specifies a PostReplyItem response object.
AcceptSharingInvitation	t:AcceptSharingInvitationType	Specifies an AcceptSharingInvitation response object.

2.2.3.39   t:NonEmptyArrayOfAttachmentsType Complex Type

The NonEmptyArrayOfAttachmentsType complex type specifies an array of items or files that are attached to an item.

```
<xs:complexType name="NonEmptyArrayOfAttachmentsType">
  <xs:choice
    minOccurs="1"
    maxOccurs="unbounded"
  >
    <xs:element name="ItemAttachment"
      type="t:ItemAttachmentType"
     />
    <xs:element name="FileAttachment"
      type="t:FileAttachmentType"
     />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
ItemAttachment	t:ItemAttachmentType	Specifies an item attachment.
FileAttachment	t:FileAttachmentType	Specifies a file attachment.

2.2.3.40   t:NonEmptyArrayOfPathsToElementType Complex Type

The **NonEmptyArrayOfPathsToElementType** type specifies additional properties to return in a response.

```
<xs:complexType name="NonEmptyArrayOfPathsToElementType">
  <xs:choice
    maxOccurs="unbounded"
  >
    <xs:element
      ref="t:Path"
    />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
t:Path	t:Path	Specifies a property to return in a response.

2.2.3.41   t:NumberedRecurrenceRangeType Complex Type

The **NumberedRecurrenceRangeType** type specifies the start date and number of occurrences of a recurring item.

```
<xs:complexType name="NumberedRecurrenceRangeType">
  <xs:complexContent>
    <xs:extension
      base="t:RecurrenceRangeBaseType"
    >
      <xs:sequence>
        <xs:element name="NumberOfOccurrences"
          type="xs:int"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
NumberOfOccurrences	xs:int	Specifies the number of occurrences of a recurring item.

2.2.3.42   t:PathToExceptionFieldType Complex Type

The ExceptionPropertyURIType complex types specifies errors in a response.

```
<xs:complexType name="PathToExceptionFieldType">
  <xs:complexContent>
```

```
   <xs:extension
     base="t:BasePathToElementType"
   >
       <xs:attribute name="FieldURI"
         type="t:ExceptionPropertyURIType"
         use="required"
        />
     </xs:extension>
   </xs:complexContent>
 </xs:complexType>
```

Attributes

Name	Type
FieldURI	t:ExceptionPropertyURIType

2.2.3.43   t:PathToIndexedFieldType Complex Type

The PathToIndexedFieldType complex type specifies individual members of a dictionary property.

```
  <xs:complexType name="PathToIndexedFieldType">
    <xs:complexContent>
      <xs:extension
        base="t:BasePathToElementType"
      >
        <xs:attribute name="FieldURI"
          type="t:DictionaryURIType"
          use="required"
         />
        <xs:attribute name="FieldIndex"
          type="xs:string"
          use="required"
         />
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

Attributes

Name	Type	Description
FieldURI	t:DictionaryURIType	Specifies the dictionary property. This attribute MUST be present.
FieldIndex	xs:string	Specifies the entry index in a dictionary. This attribute MUST be present.

2.2.3.44   t:PathToUnindexedFieldType Complex Type

The **PathToUnindexedFieldType** type specifies frequently referenced properties.

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

```
  <xs:complexContent>
    <xs:extension
      base="t:BasePathToElementType"
    >
      <xs:attribute name="FieldURI"
        type="t:UnindexedFieldURIType"
        use="required"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attributes

Name	Type	Description
FieldURI	t:UnindexedFieldURIType	Specifies frequently referenced field URIs. This attribute MUST be present.

2.2.3.45   t:RecurrencePatternBaseType Complex Type

The **RecurrencePatternBaseType** type specifies the base type for recurrence patterns.

```
<xs:complexType name="RecurrencePatternBaseType"
  abstract="true"
 />
```

2.2.3.46   t:RecurrenceRangeBaseType Complex Type

The **RecurrenceRangeBaseType** type specifies the base type for all recurrence patterns that have a start date.

```
<xs:complexType name="RecurrenceRangeBaseType"
  abstract="true"
>
  <xs:sequence>
    <xs:element name="StartDate"
      type="xs:date"
    />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
StartDate	xs:date	Specifies the start date of a recurrence range.

2.2.3.47   t:RelativeMonthlyRecurrencePatternType Complex Type

The RelativeMonthlyRecurrencePatternType complex type specifies a relative monthly recurrence pattern.

```
<xs:complexType name="RelativeMonthlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:IntervalRecurrencePatternBaseType"
    >
      <xs:sequence>
        <xs:element name="DaysOfWeek"
          type="t:DayOfWeekType"
         />
        <xs:element name="DayOfWeekIndex"
          type="t:DayOfWeekIndexType"
         />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
DaysOfWeek	t:DayOfWeekType	Specifies the days of the week that are used in a relative monthly recurrence pattern.
DayOfWeekIndex	t:DayOfWeekIndexType	Specifies the week that is used in a relative monthly recurrence pattern.

2.2.3.48   t:RelativeYearlyRecurrencePatternType Complex Type

The RelativeYearlyRecurrencePatternType complex type specifies a relative yearly recurrence pattern.

```
<xs:complexType name="RelativeYearlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:RecurrencePatternBaseType"
    >
      <xs:sequence>
        <xs:element name="DaysOfWeek"
          type="t:DayOfWeekType"
         />
        <xs:element name="DayOfWeekIndex"
          type="t:DayOfWeekIndexType"
         />
        <xs:element name="Month"
          type="t:MonthNamesType"
         />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
```

```
        </xs:complexType>
```

Child Elements

Element	Type	Description
DaysOfWeek	t:DayOfWeekType	Specifies the days of the week that are used in a relative monthly recurrence pattern. This element MUST be present.
DayOfWeekIndex	t:DayOfWeekIndexType	Specifies the week that is used in a relative monthly recurrence pattern. This element MUST be present.
Month	t:MonthNamesType	Specifies the month when a yearly recurring item occurs. This element MUST be present.

2.2.3.49   t:ReplyAllToItemType Complex Type

The **ReplyAllToItemType** type specifies a reply all item response object that is used to reply to the sender and all recipients of an item.

```
<xs:complexType name="ReplyAllToItemType">
  <xs:complexContent>
    <xs:extension
      base="t:SmartResponseType"
     />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.50   t:ReplyBody

The **ReplyBody** complex type specifies the body of the **OOF message** that is sent to users.

```
<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**	HTML message that forms the body of the OOF message. Can be present and SHOULD NOT exceed 128000 bytes.

Attribute	Definition
xml:lang	Specifies the language used in the OOF message. This attribute can be present. The possible values of this attribute are defined by [RFC3066].

2.2.3.51   t:ReplyToItemType Complex Type

The [ReplyToItemType](#) complex type specifies a reply response object that is used to reply to the sender of an item.

```xml
<xs:complexType name="ReplyToItemType">
  <xs:complexContent>
    <xs:extension
      base="t:SmartResponseType"
    />
  </xs:complexContent>
</xs:complexType>
```

2.2.3.52   m:ResponseMessageType Complex Type

The **ResponseMessageType** complex type specifies information about the response status for a single entity in a request.

```xml
<xs:complexType name="ResponseMessageType">
  <xs:sequence
    minOccurs="0"
  >
    <xs:element name="MessageText"
      type="xs:string"
      minOccurs="0"
    />
    <xs:element name="ResponseCode"
      type="m:ResponseCodeType"
      minOccurs="0"
    />
    <xs:element name="DescriptiveLinkKey"
      type="xs:int"
      minOccurs="0"
    />
    <xs:element name="MessageXml"
      minOccurs="0"
    >
      <xs:complexType>
        <xs:sequence>
          <xs:any
            process_contents="lax"
            minOccurs="0"
            maxOccurs="unbounded"
          />
        </xs:sequence>
        <xs:attribute name="ResponseClass"
          type="t:ResponseClassType"
          use="required"
        />
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
MessageText	xs:string	Specifies a text description of the status of a response.
ResponseCode	m:ResponseCodeType	Specifies the error code that identifies the specific error that the request encountered, if any.
DescriptiveLinkKey	xs:int	This element is not used.
MessageXml	N/A	Specifies additional error response information.

Attributes

Name	Type	Description
ResponseClass	t:ResponseClassType	Represents the status of the response. The following values are valid for this attribute: ▪ Success ▪ Warning ▪ Error MUST be present.

2.2.3.53   t:ResponseObjectCoreType Complex Type

The **ResponseObjectCoreType** type specifies the base type for response objects.

```
<xs:complexType name="ResponseObjectCoreType"
  abstract="true"
>
  <xs:complexContent>
    <xs:extension
      base="t:MessageType"
    >
      <xs:sequence>
        <xs:element name="ReferenceItemId"
          type="t:ItemIdType"
          minOccurs="0"
         />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
ReferenceItemId	t:ItemIdType	Specifies the item identifier that is related to a response object.

2.2.3.54 t:ResponseObjectType Complex Type

The **ResponseObjectType** type specifies the base type for response objects.

```
<xs:complexType name="ResponseObjectType"
  abstract="true"
>
  <xs:complexContent>
    <xs:extension
      base="t:ResponseObjectCoreType"
    >
      <xs:attribute name="ObjectName"
        type="xs:string"
        use="optional"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attributes

Name	Type	Description
ObjectName	xs:string	Specifies the name of the reply object class as an English string.

2.2.3.55 t:SingleRecipientType Complex Type

The **SingleRecipientType** type specifies the e-mail address information for a single message recipient.

```
<xs:complexType name="SingleRecipientType">
  <xs:choice>
    <xs:element name="Mailbox"
      type="t:EmailAddressType"
    />
  </xs:choice>
</xs:complexType>
```

Child Elements

Element	Type	Description
Mailbox	t:EmailAddressType	Specifies the e-mail address of a recipient.

2.2.3.56 t:SuppressReadReceiptType Complex Type

The **SuppressReadReceiptType** type specifies the suppress read receipt response object.

```
<xs:complexType name="SuppressReadReceiptType">
  <xs:complexContent>
    <xs:extension
      base="t:ReferenceItemResponseType"
```

```
        />
    </xs:complexContent>
  </xs:complexType>
```

2.2.3.57   t:UserIdType Complex Type

The **UserIdType** type specifies a user identifier.

```
<xs:complexType name="UserIdType">
  <xs:sequence>
    <xs:element name="SID"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="PrimarySmtpAddress"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="DisplayName"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="DistinguishedUser"
      type="t:DistinguishedUserType"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="ExternalUserIdentity"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
  </xs:sequence>
</xs:complexType>
```

Child Elements

Element	Type	Description
SID	xs:string	Specifies the security descriptor definition language (SSDL) form of the security identifier (SID) for a user.
PrimarySmtpAddress	xs:string	Specifies the primary SMTP address of an account.
DisplayName	xs:string	Specifies the user name for display.
DistinguishedUser	t:DistinguishedUserType	Specifies a value that identifies the Anonymous and Default user accounts for delegate access.
ExternalUserIdentity	xs:string	Specifies an external user identity.

2.2.3.58   t:Value Complex Type

The Value complex type specifies the name and value of a property that is returned in an error response.

```
<xs:complexType name="Value">
  <xs:simpleContent>
    <xs:extension
      base="xs:string"
    >
      <xs:attribute name="Name"
        type="xs:string"
        use="required"
      />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Attributes

Name	Type	Description
Name	xs:string	Specifies a property name.

2.2.3.59   t:WeeklyRecurrencePatternType Complex Type

The **WeeklyRecurrencePatternType** complex type specifies the frequency, in weeks, in which an item recurs, and the days on which the item recurs.

```
<xs:complexType name="WeeklyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension
      base="t:IntervalRecurrencePatternBaseType"
    >
      <xs:sequence>
        <xs:element name="DaysOfWeek"
          type="t:DaysOfWeekType"
        />
        <xs:element name="FirstDayOfWeek"
          type="t:DayOfWeekType"
          minOccurs="0"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
DaysOfWeek	t:DaysOfWeekType	Specifies the days of the week that are in the weekly recurrence pattern.

Element	Type	Description
FirstDayOfWeek	t:DayOfWeekType	Specifies the first day of week.<16>

2.2.3.60   t:WellKnownResponseObjectType Complex Type

The **WellKnownResponseObjectType** type specifies the base type for calendar item related response objects.

```
<xs:complexType name="WellKnownResponseObjectType">
  <xs:complexContent>
    <xs:restriction
      base="t:ResponseObjectType"
    >
      <xs:sequence>
        <xs:element name="ItemClass"
          type="t:ItemClassType"
          minOccurs="0"
         />
        <xs:element name="Sensitivity"
          type="t:SensitivityChoicesType"
          minOccurs="0"
         />
        <xs:element name="Body"
          type="t:BodyType"
          minOccurs="0"
         />
        <xs:element name="Attachments"
          type="t:NonEmptyArrayOfAttachmentsType"
          minOccurs="0"
         />
        <xs:element name="InternetMessageHeaders"
          type="t:NonEmptyArrayOfInternetHeadersType"
          minOccurs="0"
         />
        <xs:element name="Sender"
          type="t:SingleRecipientType"
          minOccurs="0"
         />
        <xs:element name="ToRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
         />
        <xs:element name="CcRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
         />
        <xs:element name="BccRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
         />
        <xs:element name="IsReadReceiptRequested"
          type="xs:boolean"
          minOccurs="0"
         />
        <xs:element name="IsDeliveryReceiptRequested"
          type="xs:boolean"
          minOccurs="0"
```

```
          />
        <xs:element name="From"
          type="t:SingleRecipientType"
          minOccurs="0"
          />
        <xs:element name="ReferenceItemId"
          type="t:ItemIdType"
          minOccurs="0"
          />
      </xs:sequence>
      <xs:attribute name="ObjectName"
        type="xs:string"
        use="prohibited"
      />
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Child Elements

Element	Type	Description
ItemClass	t:ItemClassType	Specifies the item class.
Sensitivity	t:SensitivityChoicesType	Specifies the item sensitivity level.
Body	t:BodyType	Specifies the body content.
Attachments	t:NonEmptyArrayOfAttachmentsType	Specifies the attachments on a response object.
InternetMessageHeaders	t:NonEmptyArrayOfInternetHeadersType	Specifies an array of the type **InternetHeaderType** that represents the collection of all Internet message headers that are contained in an item.
Sender	t:SingleRecipientType	Specifies the sender of a message.
ToRecipients	t:ArrayOfRecipientsType	Specifies a collection of recipients of an item.
CcRecipients	t:ArrayOfRecipientsType	Specifies a collection of carbon copy (Cc) recipients of an item.
BccRecipients	t:ArrayOfRecipientsType	Specifies a collection of blind carbon copy (Bcc) recipients of an item.
IsReadReceiptRequested	xs:boolean	Specifies whether a read receipt is requested.
IsDeliveryReceiptRequested	xs:boolean	Specifies whether a delivery receipt is requested.

Element	Type	Description
From	t:SingleRecipientType	Specifies the addressee from whom a message was sent.
ReferenceItemId	t:ItemIdType	Specifies the item identifier that is related to a response object.

Attributes

Name	Type	Description
ObjectName	xs:string	Specifies the name of the reply object class as an English string.

2.2.4   Elements

2.2.4.1   t:ExceptionFieldURI Element

The <ExceptionFieldURI> element specifies particular errors in a request.

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

2.2.4.2   t:ExchangeImpersonation Element

The ExchangeImpersonation element is used in the SOAP header of a request. When the ExchangeImpersonation element is present, the caller is trying to impersonate the account that is specified by the <ConnectingSID> element in the t:ExchangeImpersonationType complex type as specified in section 2.2.3.27.

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

2.2.4.3   t:FieldURI Element

The <FieldURI > element specifies frequently referenced properties by URI.

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

The full syntax for this element is `<xs:element name="FieldURI" type="t:PathToUnindexedFieldType" substitutionGroup="t:Path"/>`

2.2.4.4   t:IndexedFieldURI Element

The <IndexedFieldURI > element specifies individual members of a dictionary.

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

The syntax for this element is `<xs:element name="IndexedFieldURI" type="t:PathToIndexedFieldType" substitutionGroup="t:Path" />`.

2.2.4.5 t:MailboxCulture Element

The <MailboxCulture> element specifies the culture to use when opening a mailbox. The <MailboxCulture> element occurs in the **SOAP header**.

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

2.2.4.6 t:Path Element

The <Path> element specifies the base schema type for all property identifiers. This type is abstract and will never occur directly within instance documents. This type defines a substitution group.

```
<xs:element name="t:Path"
  type="t:BasePathToElementType"
  abstract="true"
 />
```

2.2.4.7 t:RequestServerVersion Element

The <RequestServerVersion> element specifies the versioning information that identifies the schema version to target for a request.<17>

```
<xs:element name="t:RequestServerVersion">
  <xs:complexType>
    <xs:attribute name="Version"
      type="t:ExchangeVersionType"
      use="required"
      fixed="Exchange2010_SP1"
     />
    <xs:anyAttribute
      namespace="http://schemas.xmlsoap.org/soap/envelope/"
     />
  </xs:complexType>
</xs:element>
```

Attributes

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Name	Type
Version	t:ExchangeVersionType

2.2.4.8 t:ServerVersionInfo Element

The <ServerVersionInfo> element specifies the version number of the server.

```
<xs:element name="t:ServerVersionInfo">
  <xs:complexType>
    <xs:attribute name="MajorVersion"
      type="xs:int"
      use="optional"
     />
    <xs:attribute name="MinorVersion"
      type="xs:int"
      use="optional"
     />
    <xs:attribute name="MajorBuildNumber"
      type="xs:int"
      use="optional"
     />
    <xs:attribute name="MinorBuildNumber"
      type="xs:int"
      use="optional"
     />
    <xs:attribute name="Version"
      type="xs:string"
      use="optional"
     />
  </xs:complexType>
</xs:element>
```

Attributes

Name	Type
MajorVersion	xs:int
MinorVersion	xs:int
MajorBuildNumber	xs:int
MinorBuildNumber	xs:int
Version	xs:string

2.2.4.9 Value Element

The <Value> element specifies the value of an extended property.

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

2.2.5   Attributes

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

2.2.6   Groups

2.2.6.1   t:RecurrencePatternTypes Group

The **RecurrencePatternTypes** group specifies the recurrence pattern for calendar items and meeting requests.

```
<xs:group name="t:RecurrencePatternTypes">
  <xs:sequence>
    <xs:choice>
      <xs:element name="t:RelativeYearlyRecurrence"
        type="t:RelativeYearlyRecurrencePatternType"
       />
      <xs:element name="AbsoluteYearlyRecurrence"
        type="t:AbsoluteYearlyRecurrencePatternType"
       />
      <xs:element name="RelativeMonthlyRecurrence"
        type="t:RelativeMonthlyRecurrencePatternType"
       />
      <xs:element name="AbsoluteMonthlyRecurrence"
        type="t:AbsoluteMonthlyRecurrencePatternType"
       />
      <xs:element name="WeeklyRecurrence"
        type="t:WeeklyRecurrencePatternType"
       />
      <xs:element name="DailyRecurrence"
        type="t:DailyRecurrencePatternType"
       />
    </xs:choice>
  </xs:sequence>
</xs:group>
```

Child Elements

Element	Type	Description
t:RelativeYearlyRecurrence	t:RelativeYearlyRecurrencePatternType	Specifies a relative yearly recurrence pattern.
AbsoluteYearlyRecurrence	t:AbsoluteYearlyRecurrencePatternType	Specifies a yearly recurrence pattern.
RelativeMonthlyRecurrence	t:RelativeMonthlyRecurrencePatternType	Specifies a relative monthly recurrence pattern for a recurring calendar item.
AbsoluteMonthlyRecurrence	t:AbsoluteMonthlyRecurrencePatternType	Specifies a monthly recurrence pattern.

Element	Type	Description
WeeklyRecurrence	t:WeeklyRecurrencePatternType	Specifies the frequency, in weeks, and the days that a calendar item recurs.
DailyRecurrence	t:DailyRecurrencePatternType	Specifies the frequency, in days, in which a calendar item recurs.

2.2.6.2   t:RecurrenceRangeTypes Group

The RecurrenceRangeTypes group specifies recurrence patterns with numbered recurrences, non-ending recurrence patterns, and recurrence patterns with a set start and end date.

```
<xs:group name="t:RecurrenceRangeTypes">
  <xs:sequence>
    <xs:choice>
      <xs:element name="NoEndRecurrence"
        type="t:NoEndRecurrenceRangeType"
       />
      <xs:element name="EndDateRecurrence"
        type="t:EndDateRecurrenceRangeType"
       />
      <xs:element name="NumberedRecurrence"
        type="t:NumberedRecurrenceRangeType"
       />
    </xs:choice>
  </xs:sequence>
</xs:group>
```

Child Elements

Element	Type	Description
NoEndRecurrence	t:NoEndRecurrenceRangeType	Specifies a recurrence pattern that does not have a defined end date.
EndDateRecurrence	t:EndDateRecurrenceRangeType	Specifies the start date and the end date of an item recurrence pattern.
NumberedRecurrence	t:NumberedRecurrenceRangeType	Specifies the start date and the number of occurrences of a recurring item.

2.2.6.3   t:TimeChangePatternTypes Group

The **TimeChangePatternTypes** group specifies the date when the time changes from daylight saving time or standard time.

```
<xs:group name="t:TimeChangePatternTypes">
  <xs:sequence>
    <xs:choice>
      <xs:element name="RelativeYearlyRecurrence"
        type="t:RelativeYearlyRecurrencePatternType"
```

```
        />
       <xs:element name="AbsoluteDate"
         type="xs:date"
        />
     </xs:choice>
   </xs:sequence>
 </xs:group>
```

Child Elements

Element	Type	Description
RelativeYearlyRecurrence	t:RelativeYearlyRecurrencePatternType	Specifies a relative yearly recurrence pattern for a time zone transition date.
AbsoluteDate	xs:date	Specifies the date when the time changes from standard time or daylight saving time.

2.2.7   Attribute Groups

2.2.7.1   t:FindResponsePagingAttributes Attribute Group

The **FindResponsePagingAttributes** attribute group specifies paging and count information for a result set.

```
<xs:attributeGroup name="t:FindResponsePagingAttributes">
  <xs:attribute name="IndexedPagingOffset"
    type="xs:int"
    use="optional"
   />
  <xs:attribute name="NumeratorOffset"
    type="xs:int"
    use="optional"
   />
  <xs:attribute name="AbsoluteDenominator"
    type="xs:int"
    use="optional"
   />
  <xs:attribute name="IncludesLastItemInRange"
    type="xs:int"
    use="optional"
   />
  <xs:attribute name="TotalItemsInView"
    type="xs:int"
    use="optional"
   />
</xs:attributeGroup>
```

Attributes

Name	Type	Description
IndexedPagingOffset	xs:int	Specifies the next index that should be used for the next request when using an indexed paging view.
NumeratorOffset	xs:int	Specifies the new numerator value to use for the next request when using fraction page views.
AbsoluteDenominator	xs:int	Specifies the next denominator to use for the next request when doing fractional paging.
IncludesLastItemInRange	xs:int	Specifies whether the current results contain the last item in the query, such that no further paging is required.
TotalItemsInView	xs:int	Specifies the total number of results.

2.2.8   Messages

This specification does not define any common WSDL message definitions.

3   Protocol Details

This document specifies common XML schema types and elements and does not have any protocol details.

3.1   Server Details

This document specifies common XML schema types and elements and does not have any server protocol details.

3.1.1   Abstract Data Model

None.

3.1.2   Timers

None.

3.1.3   Initialization

None.

3.1.4   Message Processing Events and Sequence Rules

None.

3.1.5   Timer Events

None.

3.1.6   Other Local Events

None.

3.2   Client Details

This document specifies common XML schema types and elements and does not have any client protocol details.

3.2.1   Abstract Data Model

None.

3.2.2   Timers

None.

3.2.3   Initialization

None.

3.2.4   Message Processing Events and Sequence Rules

None.

3.2.5   Timer Events

None.

3.2.6   Other Local Events

None.

4   Protocol Examples

None.

5 Security

5.1 Security Considerations for Implementers

The Common Exchange Server Web Service Data Types protocol does not use any additional security mechanisms.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

This following **XML** files are required to implement the functionality specified in other protocol documents. The contents of each file are contained in this section. This specification does not define a WSDL file. This specification does define XML schema files that are referenced by other WSDL and XML schema files.

File name	Description	Section
MS-OXWSCDATA-types.xsd	Contains the XML schema type definitions.	6.3
MS-OXWSCDATA-messages.xsd	Contains the XML schema message definitions.	6.2

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

6.1 WSDL

This protocol specification does not define a WSDL file.

6.2 Messages Schema

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

MS-OXWSUSRCFG-messages.xsd includes or imports the files listed in the following table. To operate correctly, this file has to be present in the folder that contains the types schema file.

File name	Defining specification/section
MS-OXWSCDATA-types.xsd	Section 6.3
MS-OXWSCORE-messages.xsd	[MS-OXWSCORE] section 6.3
MS-OXWSFOLD-messages.xsd	[MS-OXWSFOLD] section 6.3
MS-OXWSSRCH-messages.xsd	[MS-OXWSSRCH] section 6.3
MS-OXWSATT-messages.xsd	[MS-OXWSATT] section 6.3
MS-OXWSRSLNM-messages.xsd	[MS-OXWSRSLNM] section 6.2
MS-OXWSDLIST-messages.xsd	[MS-OXWSDLIST] section 6.3
MS-OXWSGTZ-messages.xsd	[MS-OXWSGTZ] section 6.3
MS-OXWSNTIF-messages.xsd	[MS-OXWSNTIF] section 6.3
MS-OXWSPSNTIF-messages.xsd	[MS-OXWSPSNTIF] section 6.3
MS-OXWSSYNC-messages.xsd	[MS-OXWSSYNC] section 6.3
MS-OXWSCVTID-messages.xsd	[MS-OXWSCVTID] section 6.2
MS-OXWSMSHR-messages.xsd	[MS-OXWSMSHR] section 6.3

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File name	Defining specification/section
MS-OXWSGTRM-messages.xsd	[MS-OXWSGTRM] section 6.3
MS-OXWSBTRF-messages.xsd	[MS-OXWSBTRF] section 6.2

```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="Exchange2010_SP1" id="messages">
    <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
schemaLocation="MS-OXWSCDATA-types.xsd"/>
    <xs:include schemaLocation="MS-OXWSCORE-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSFOLD-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSSRCH-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSATT-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSRSLNM-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSDLIST-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSGTZ-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSNTIF-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSPSNTIF-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSSYNC-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSCVTID-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSMSHR-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSGTRM-messages.xsd"/>
    <xs:include schemaLocation="MS-OXWSBTRF-messages.xsd"/>
    <xs:complexType name="ArrayOfResponseMessagesType">
        <xs:choice maxOccurs="unbounded">
            <xs:element name="CreateItemResponseMessage"
type="m:ItemInfoResponseMessageType"/>
            <xs:element name="DeleteItemResponseMessage" type="m:ResponseMessageType"/>
            <xs:element name="GetItemResponseMessage"
type="m:ItemInfoResponseMessageType"/>
            <xs:element name="UpdateItemResponseMessage"
type="m:UpdateItemResponseMessageType"/>
            <xs:element name="SendItemResponseMessage" type="m:ResponseMessageType"/>
            <xs:element name="DeleteFolderResponseMessage" type="m:ResponseMessageType"/>
            <xs:element name="EmptyFolderResponseMessage" type="m:ResponseMessageType"/>
            <xs:element name="CreateFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
            <xs:element name="GetFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
            <xs:element name="FindFolderResponseMessage"
type="m:FindFolderResponseMessageType"/>
            <xs:element name="UpdateFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
            <xs:element name="MoveFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
            <xs:element name="CopyFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
            <xs:element name="CreateAttachmentResponseMessage"
type="m:AttachmentInfoResponseMessageType"/>
            <xs:element name="DeleteAttachmentResponseMessage"
type="m:DeleteAttachmentResponseMessageType"/>
            <xs:element name="GetAttachmentResponseMessage"
type="m:AttachmentInfoResponseMessageType"/>
            <xs:element name="UploadItemsResponseMessage"
type="m:UploadItemsResponseMessageType"/>
```

```
                <xs:element name="ExportItemsResponseMessage"
type="m:ExportItemsResponseMessageType"/>
                <xs:element name="FindItemResponseMessage"
type="m:FindItemResponseMessageType"/>
                <xs:element name="MoveItemResponseMessage"
type="m:ItemInfoResponseMessageType"/>
                <xs:element name="CopyItemResponseMessage"
type="m:ItemInfoResponseMessageType"/>
                <xs:element name="ResolveNamesResponseMessage"
type="m:ResolveNamesResponseMessageType"/>
                <xs:element name="ExpandDLResponseMessage"
type="m:ExpandDLResponseMessageType"/>
                <xs:element name="GetServerTimeZonesResponseMessage"
type="m:GetServerTimeZonesResponseMessageType"/>
                <xs:element name="GetEventsResponseMessage"
type="m:GetEventsResponseMessageType"/>
                <xs:element name="GetStreamingEventsResponseMessage"
type="m:GetStreamingEventsResponseMessageType"/>
                <xs:element name="SubscribeResponseMessage"
type="m:SubscribeResponseMessageType"/>
                <xs:element name="UnsubscribeResponseMessage" type="m:ResponseMessageType"/>
                <xs:element name="SendNotificationResponseMessage"
type="m:SendNotificationResponseMessageType"/>
                <xs:element name="SyncFolderHierarchyResponseMessage"
type="m:SyncFolderHierarchyResponseMessageType"/>
                <xs:element name="SyncFolderItemsResponseMessage"
type="m:SyncFolderItemsResponseMessageType"/>
                <xs:element name="CreateManagedFolderResponseMessage"
type="m:FolderInfoResponseMessageType"/>
                <xs:element name="ConvertIdResponseMessage"
type="m:ConvertIdResponseMessageType"/>
                <xs:element name="GetSharingMetadataResponseMessage"
type="m:GetSharingMetadataResponseMessageType"/>
                <xs:element name="RefreshSharingFolderResponseMessage"
type="m:RefreshSharingFolderResponseMessageType"/>
                <xs:element name="GetSharingFolderResponseMessage"
type="m:GetSharingFolderResponseMessageType"/>
                <xs:element name="CreateUserConfigurationResponseMessage"
type="m:ResponseMessageType"/>
                <xs:element name="DeleteUserConfigurationResponseMessage"
type="m:ResponseMessageType"/>
                <xs:element name="UpdateUserConfigurationResponseMessage"
type="m:ResponseMessageType"/>
                <xs:element name="GetRoomListsResponse"
type="m:GetRoomListsResponseMessageType"/>
                <xs:element name="GetRoomsResponse" type="m:GetRoomsResponseMessageType"/>
                <xs:element name="ApplyConversationActionResponseMessage"
type="m:ResponseMessageType"/>
        </xs:choice>
    </xs:complexType>
    <xs:complexType name="BaseRequestType" abstract="true"/>
    <xs:complexType name="BaseResponseMessageType">
        <xs:sequence>
            <xs:element name="ResponseMessages" type="m:ArrayOfResponseMessagesType"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="ItemInfoResponseMessageType">
        <xs:complexContent>
            <xs:extension base="m:ResponseMessageType">
                <xs:sequence>
                    <xs:element name="Items" type="t:ArrayOfRealItemsType"/>
```

```
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="ResponseMessageType">
        <xs:sequence minOccurs="0">
            <xs:element name="MessageText" type="xs:string" minOccurs="0"/>
            <xs:element name="ResponseCode" type="m:ResponseCodeType" minOccurs="0"/>
            <xs:element name="DescriptiveLinkKey" type="xs:int" minOccurs="0"/>
            <xs:element name="MessageXml" minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:any processContents="lax" minOccurs="0"
 maxOccurs="unbounded"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attribute name="ResponseClass" type="t:ResponseClassType" use="required"/>
    </xs:complexType>
    <xs:simpleType name="ResponseCodeType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="NoError"/>
            <xs:enumeration value="ErrorAccessDenied"/>
            <xs:enumeration value="ErrorAccessModeSpecified"/>
            <xs:enumeration value="ErrorAccountDisabled"/>
            <xs:enumeration value="ErrorAddDelegatesFailed"/>
            <xs:enumeration value="ErrorAddressSpaceNotFound"/>
            <xs:enumeration value="ErrorADOperation"/>
            <xs:enumeration value="ErrorADSessionFilter"/>
            <xs:enumeration value="ErrorADUnavailable"/>
            <xs:enumeration value="ErrorAutoDiscoverFailed"/>
            <xs:enumeration value="ErrorAffectedTaskOccurrencesRequired"/>
            <xs:enumeration value="ErrorAttachmentSizeLimitExceeded"/>
            <xs:enumeration value="ErrorAvailabilityConfigNotFound"/>
            <xs:enumeration value="ErrorBatchProcessingStopped"/>
            <xs:enumeration value="ErrorCalendarCannotMoveOrCopyOccurrence"/>
            <xs:enumeration value="ErrorCalendarCannotUpdateDeletedItem"/>
            <xs:enumeration value="ErrorCalendarCannotUseIdForOccurrenceId"/>
            <xs:enumeration value="ErrorCalendarCannotUseIdForRecurringMasterId"/>
            <xs:enumeration value="ErrorCalendarDurationIsTooLong"/>
            <xs:enumeration value="ErrorCalendarEndDateIsEarlierThanStartDate"/>
            <xs:enumeration value="ErrorCalendarFolderIsInvalidForCalendarView"/>
            <xs:enumeration value="ErrorCalendarInvalidAttributeValue"/>
            <xs:enumeration value="ErrorCalendarInvalidDayForTimeChangePattern"/>
            <xs:enumeration value="ErrorCalendarInvalidDayForWeeklyRecurrence"/>
            <xs:enumeration value="ErrorCalendarInvalidPropertyState"/>
            <xs:enumeration value="ErrorCalendarInvalidPropertyValue"/>
            <xs:enumeration value="ErrorCalendarInvalidRecurrence"/>
            <xs:enumeration value="ErrorCalendarInvalidTimeZone"/>
            <xs:enumeration value="ErrorCalendarIsCancelledForAccept"/>
            <xs:enumeration value="ErrorCalendarIsCancelledForDecline"/>
            <xs:enumeration value="ErrorCalendarIsCancelledForRemove"/>
            <xs:enumeration value="ErrorCalendarIsCancelledForTentative"/>
            <xs:enumeration value="ErrorCalendarIsDelegatedForAccept"/>
            <xs:enumeration value="ErrorCalendarIsDelegatedForDecline"/>
            <xs:enumeration value="ErrorCalendarIsDelegatedForRemove"/>
            <xs:enumeration value="ErrorCalendarIsDelegatedForTentative"/>
            <xs:enumeration value="ErrorCalendarIsNotOrganizer"/>
```

```xml
<xs:enumeration value="ErrorCalendarIsOrganizerForAccept"/>
<xs:enumeration value="ErrorCalendarIsOrganizerForDecline"/>
<xs:enumeration value="ErrorCalendarIsOrganizerForRemove"/>
<xs:enumeration value="ErrorCalendarIsOrganizerForTentative"/>
<xs:enumeration value="ErrorCalendarOccurrenceIndexIsOutOfRecurrenceRange"/>
<xs:enumeration value="ErrorCalendarOccurrenceIsDeletedFromRecurrence"/>
<xs:enumeration value="ErrorCalendarOutOfRange"/>
<xs:enumeration value="ErrorCalendarMeetingRequestIsOutOfDate"/>
<xs:enumeration value="ErrorCalendarViewRangeTooBig"/>
<xs:enumeration value="ErrorCallerIsInvalidADAccount"/>
<xs:enumeration value="ErrorCannotCreateCalendarItemInNonCalendarFolder"/>
<xs:enumeration value="ErrorCannotCreateContactInNonContactFolder"/>
<xs:enumeration value="ErrorCannotCreatePostItemInNonMailFolder"/>
<xs:enumeration value="ErrorCannotCreateTaskInNonTaskFolder"/>
<xs:enumeration value="ErrorCannotDeleteObject"/>
<xs:enumeration value="ErrorCannotOpenFileAttachment"/>
<xs:enumeration value="ErrorCannotDeleteTaskOccurrence"/>
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<xs:enumeration value="ErrorCannotSetCalendarPermissionOnNonCalendarFolder"/>
<xs:enumeration value="ErrorCannotSetNonCalendarPermissionOnCalendarFolder"/>
<xs:enumeration value="ErrorCannotSetPermissionUnknownEntries"/>
<xs:enumeration value="ErrorCannotUseFolderIdForItemId"/>
<xs:enumeration value="ErrorCannotUseItemIdForFolderId"/>
<xs:enumeration value="ErrorChangeKeyRequired"/>
<xs:enumeration value="ErrorChangeKeyRequiredForWriteOperations"/>
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<xs:enumeration value="ErrorConnectionFailed"/>
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<xs:enumeration value="ErrorContentConversionFailed"/>
<xs:enumeration value="ErrorCorruptData"/>
<xs:enumeration value="ErrorCreateItemAccessDenied"/>
<xs:enumeration value="ErrorCreateManagedFolderPartialCompletion"/>
<xs:enumeration value="ErrorCreateSubfolderAccessDenied"/>
<xs:enumeration value="ErrorCrossMailboxMoveCopy"/>
<xs:enumeration value="ErrorCrossSiteRequest"/>
<xs:enumeration value="ErrorDataSizeLimitExceeded"/>
<xs:enumeration value="ErrorDataSourceOperation"/>
<xs:enumeration value="ErrorDelegateAlreadyExists"/>
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<xs:enumeration value="ErrorDelegateMissingConfiguration"/>
<xs:enumeration value="ErrorDelegateNoUser"/>
<xs:enumeration value="ErrorDelegateValidationFailed"/>
<xs:enumeration value="ErrorDeleteDistinguishedFolder"/>
<xs:enumeration value="ErrorDeleteItemsFailed"/>
<xs:enumeration value="ErrorDistinguishedUserNotSupported"/>
<xs:enumeration value="ErrorDistributionListMemberNotExist"/>
<xs:enumeration value="ErrorDuplicateInputFolderNames"/>
<xs:enumeration value="ErrorDuplicateUserIdsSpecified"/>
<xs:enumeration value="ErrorEmailAddressMismatch"/>
<xs:enumeration value="ErrorEventNotFound"/>
<xs:enumeration value="ErrorExceededConnectionCount"/>
<xs:enumeration value="ErrorExceededSubscriptionCount"/>
<xs:enumeration value="ErrorExceededFindCountLimit"/>
<xs:enumeration value="ErrorExpiredSubscription"/>
<xs:enumeration value="ErrorFolderCorrupt"/>
<xs:enumeration value="ErrorFolderNotFound"/>
<xs:enumeration value="ErrorFolderPropertRequestFailed"/>
<xs:enumeration value="ErrorFolderSave"/>
<xs:enumeration value="ErrorFolderSaveFailed"/>
```

```
<xs:enumeration value="ErrorFolderSavePropertyError"/>
<xs:enumeration value="ErrorFolderExists"/>
<xs:enumeration value="ErrorFreeBusyGenerationFailed"/>
<xs:enumeration value="ErrorGetServerSecurityDescriptorFailed"/>
<xs:enumeration value="ErrorImpersonateUserDenied"/>
<xs:enumeration value="ErrorImpersonationDenied"/>
<xs:enumeration value="ErrorImpersonationFailed"/>
<xs:enumeration value="ErrorIncorrectSchemaVersion"/>
<xs:enumeration value="ErrorIncorrectUpdatePropertyCount"/>
<xs:enumeration value="ErrorIndividualMailboxLimitReached"/>
<xs:enumeration value="ErrorInsufficientResources"/>
<xs:enumeration value="ErrorInternalServerError"/>
<xs:enumeration value="ErrorInternalServerTransientError"/>
<xs:enumeration value="ErrorInvalidAccessLevel"/>
<xs:enumeration value="ErrorInvalidArgument"/>
<xs:enumeration value="ErrorInvalidAttachmentId"/>
<xs:enumeration value="ErrorInvalidAttachmentSubfilter"/>
<xs:enumeration value="ErrorInvalidAttachmentSubfilterTextFilter"/>
<xs:enumeration value="ErrorInvalidAuthorizationContext"/>
<xs:enumeration value="ErrorInvalidChangeKey"/>
<xs:enumeration value="ErrorInvalidClientSecurityContext"/>
<xs:enumeration value="ErrorInvalidCompleteDate"/>
<xs:enumeration value="ErrorInvalidContactEmailAddress"/>
<xs:enumeration value="ErrorInvalidContactEmailIndex"/>
<xs:enumeration value="ErrorInvalidCrossForestCredentials"/>
<xs:enumeration value="ErrorInvalidDelegatePermission"/>
<xs:enumeration value="ErrorInvalidDelegateUserId"/>
<xs:enumeration value="ErrorInvalidExcludesRestriction"/>
<xs:enumeration value="ErrorInvalidExpressionTypeForSubFilter"/>
<xs:enumeration value="ErrorInvalidExtendedProperty"/>
<xs:enumeration value="ErrorInvalidExtendedPropertyValue"/>
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<xs:enumeration value="ErrorInvalidFolderTypeForOperation"/>
<xs:enumeration value="ErrorInvalidFractionalPagingParameters"/>
<xs:enumeration value="ErrorInvalidFreeBusyViewType"/>
<xs:enumeration value="ErrorInvalidId"/>
<xs:enumeration value="ErrorInvalidIdEmpty"/>
<xs:enumeration value="ErrorInvalidIdMalformed"/>
<xs:enumeration value="ErrorInvalidIdMalformedEwsLegacyIdFormat"/>
<xs:enumeration value="ErrorInvalidIdMonikerTooLong"/>
<xs:enumeration value="ErrorInvalidIdNotAnItemAttachmentId"/>
<xs:enumeration value="ErrorInvalidIdReturnedByResolveNames"/>
<xs:enumeration value="ErrorInvalidIdStoreObjectIdTooLong"/>
<xs:enumeration value="ErrorInvalidIdTooManyAttachmentLevels"/>
<xs:enumeration value="ErrorInvalidIdXml"/>
<xs:enumeration value="ErrorInvalidIndexedPagingParameters"/>
<xs:enumeration value="ErrorInvalidInternetHeaderChildNodes"/>
<xs:enumeration value="ErrorInvalidItemForOperationCreateItemAttachment"/>
<xs:enumeration value="ErrorInvalidItemForOperationCreateItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationAcceptItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationDeclineItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationCancelItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationExpandDL"/>
<xs:enumeration value="ErrorInvalidItemForOperationRemoveItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationSendItem"/>
<xs:enumeration value="ErrorInvalidItemForOperationTentative"/>
<xs:enumeration value="ErrorInvalidLogonType"/>
<xs:enumeration value="ErrorInvalidMailbox"/>
<xs:enumeration value="ErrorInvalidManagedFolderProperty"/>
```

```
                    <xs:enumeration value="ErrorInvalidManagedFolderQuota"/>
                    <xs:enumeration value="ErrorInvalidManagedFolderSize"/>
                    <xs:enumeration value="ErrorInvalidMergedFreeBusyInterval"/>
                    <xs:enumeration value="ErrorInvalidNameForNameResolution"/>
                    <xs:enumeration value="ErrorInvalidOperation"/>
                    <xs:enumeration value="ErrorInvalidNetworkServiceContext"/>
                    <xs:enumeration value="ErrorInvalidOofParameter"/>
                    <xs:enumeration value="ErrorInvalidPagingMaxRows"/>
                    <xs:enumeration value="ErrorInvalidParentFolder"/>
                    <xs:enumeration value="ErrorInvalidPercentCompleteValue"/>
                    <xs:enumeration value="ErrorInvalidPermissionSettings"/>
                    <xs:enumeration value="ErrorInvalidPhoneCallId"/>
                    <xs:enumeration value="ErrorInvalidPhoneNumber"/>
                    <xs:enumeration value="ErrorInvalidUserInfo"/>
                    <xs:enumeration value="ErrorInvalidPropertyAppend"/>
                    <xs:enumeration value="ErrorInvalidPropertyDelete"/>
                    <xs:enumeration value="ErrorInvalidPropertyForExists"/>
                    <xs:enumeration value="ErrorInvalidPropertyForOperation"/>
                    <xs:enumeration value="ErrorInvalidPropertyRequest"/>
                    <xs:enumeration value="ErrorInvalidPropertySet"/>
                    <xs:enumeration value="ErrorInvalidPropertyUpdateSentMessage"/>
                    <xs:enumeration value="ErrorInvalidProxySecurityContext"/>
                    <xs:enumeration value="ErrorInvalidPullSubscriptionId"/>
                    <xs:enumeration value="ErrorInvalidPushSubscriptionUrl"/>
                    <xs:enumeration value="ErrorInvalidRecipients"/>
                    <xs:enumeration value="ErrorInvalidRecipientSubfilter"/>
                    <xs:enumeration value="ErrorInvalidRecipientSubfilterComparison"/>
                    <xs:enumeration value="ErrorInvalidRecipientSubfilterOrder"/>
                    <xs:enumeration value="ErrorInvalidRecipientSubfilterTextFilter"/>
                    <xs:enumeration value="ErrorInvalidReferenceItem"/>
                    <xs:enumeration value="ErrorInvalidRequest"/>
                    <xs:enumeration value="ErrorInvalidRestriction"/>
                    <xs:enumeration value="ErrorInvalidRoutingType"/>
                    <xs:enumeration value="ErrorInvalidScheduledOofDuration"/>
                    <xs:enumeration value="ErrorInvalidSchemaVersionForMailboxVersion"/>
                    <xs:enumeration value="ErrorInvalidSecurityDescriptor"/>
                    <xs:enumeration value="ErrorInvalidSendItemSaveSettings"/>
                    <xs:enumeration value="ErrorInvalidSerializedAccessToken"/>
                    <xs:enumeration value="ErrorInvalidServerVersion"/>
                    <xs:enumeration value="ErrorInvalidSid"/>
                    <xs:enumeration value="ErrorInvalidSIPUri"/>
                    <xs:enumeration value="ErrorInvalidSmtpAddress"/>
                    <xs:enumeration value="ErrorInvalidSubfilterType"/>
                    <xs:enumeration value="ErrorInvalidSubfilterTypeNotAttendeeType"/>
                    <xs:enumeration value="ErrorInvalidSubfilterTypeNotRecipientType"/>
                    <xs:enumeration value="ErrorInvalidSubscription"/>
                    <xs:enumeration value="ErrorInvalidSubscriptionRequest"/>
                    <xs:enumeration value="ErrorInvalidSyncStateData"/>
                    <xs:enumeration value="ErrorInvalidTimeInterval"/>
                    <xs:enumeration value="ErrorInvalidUserOofSettings"/>
                    <xs:enumeration value="ErrorInvalidUserPrincipalName"/>
                    <xs:enumeration value="ErrorInvalidUserSid"/>
                    <xs:enumeration value="ErrorInvalidUserSidMissingUPN"/>
                    <xs:enumeration value="ErrorInvalidValueForProperty"/>
                    <xs:enumeration value="ErrorInvalidWatermark"/>
                    <xs:enumeration value="ErrorIPGatewayNotFound"/>
                    <xs:enumeration value="ErrorIrresolvableConflict"/>
                    <xs:enumeration value="ErrorItemCorrupt"/>
                    <xs:enumeration value="ErrorItemNotFound"/>
```

```
<xs:enumeration value="ErrorItemPropertyRequestFailed"/>
<xs:enumeration value="ErrorItemSave"/>
<xs:enumeration value="ErrorItemSavePropertyError"/>
<xs:enumeration value="ErrorLegacyMailboxFreeBusyViewTypeNotMerged"/>
<xs:enumeration value="ErrorLocalServerObjectNotFound"/>
<xs:enumeration value="ErrorLogonAsNetworkServiceFailed"/>
<xs:enumeration value="ErrorMailboxConfiguration"/>
<xs:enumeration value="ErrorMailboxDataArrayEmpty"/>
<xs:enumeration value="ErrorMailboxDataArrayTooBig"/>
<xs:enumeration value="ErrorMailboxLogonFailed"/>
<xs:enumeration value="ErrorMailboxMoveInProgress"/>
<xs:enumeration value="ErrorMailboxStoreUnavailable"/>
<xs:enumeration value="ErrorMailRecipientNotFound"/>
<xs:enumeration value="ErrorMailTipsDisabled"/>
<xs:enumeration value="ErrorManagedFolderAlreadyExists"/>
<xs:enumeration value="ErrorManagedFolderNotFound"/>
<xs:enumeration value="ErrorManagedFoldersRootFailure"/>
<xs:enumeration value="ErrorMeetingSuggestionGenerationFailed"/>
<xs:enumeration value="ErrorMessageDispositionRequired"/>
<xs:enumeration value="ErrorMessageSizeExceeded"/>
<xs:enumeration value="ErrorMimeContentConversionFailed"/>
<xs:enumeration value="ErrorMimeContentInvalid"/>
<xs:enumeration value="ErrorMimeContentInvalidBase64String"/>
<xs:enumeration value="ErrorMissingArgument"/>
<xs:enumeration value="ErrorMissingEmailAddress"/>
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<xs:enumeration value="ErrorMissingInformationEmailAddress"/>
<xs:enumeration value="ErrorMissingInformationReferenceItemId"/>
<xs:enumeration value="ErrorMissingItemForCreateItemAttachment"/>
<xs:enumeration value="ErrorMissingManagedFolderId"/>
<xs:enumeration value="ErrorMissingRecipients"/>
<xs:enumeration value="ErrorMissingUserIdInformation"/>
<xs:enumeration value="ErrorMoreThanOneAccessModeSpecified"/>
<xs:enumeration value="ErrorMoveCopyFailed"/>
<xs:enumeration value="ErrorMoveDistinguishedFolder"/>
<xs:enumeration value="ErrorNameResolutionMultipleResults"/>
<xs:enumeration value="ErrorNameResolutionNoMailbox"/>
<xs:enumeration value="ErrorNameResolutionNoResults"/>
<xs:enumeration value="ErrorNoApplicableProxyCASServersAvailable"/>
<xs:enumeration value="ErrorNoCalendar"/>
<xs:enumeration value="ErrorNoDestinationCASDueToKerberosRequirements"/>
<xs:enumeration value="ErrorNoDestinationCASDueToSSLRequirements"/>
<xs:enumeration value="ErrorNoDestinationCASDueToVersionMismatch"/>
<xs:enumeration value="ErrorNoFolderClassOverride"/>
<xs:enumeration value="ErrorNoFreeBusyAccess"/>
<xs:enumeration value="ErrorNonExistentMailbox"/>
<xs:enumeration value="ErrorNonPrimarySmtpAddress"/>
<xs:enumeration value="ErrorNoPropertyTagForCustomProperties"/>
<xs:enumeration value="ErrorNoPublicFolderReplicaAvailable"/>
<xs:enumeration value="ErrorNoPublicFolderServerAvailable"/>
<xs:enumeration value="ErrorNoRespondingCASInDestinationSite"/>
<xs:enumeration value="ErrorNotDelegate"/>
<xs:enumeration value="ErrorNotEnoughMemory"/>
<xs:enumeration value="ErrorObjectTypeChanged"/>
<xs:enumeration value="ErrorOccurrenceCrossingBoundary"/>
<xs:enumeration value="ErrorOccurrenceTimeSpanTooBig"/>
<xs:enumeration value="ErrorOperationNotAllowedWithPublicFolderRoot"/>
<xs:enumeration value="ErrorParentFolderIdRequired"/>
<xs:enumeration value="ErrorParentFolderNotFound"/>
```

```
<xs:enumeration value="ErrorPasswordChangeRequired"/>
<xs:enumeration value="ErrorPasswordExpired"/>
<xs:enumeration value="ErrorPhoneNumberNotDialable"/>
<xs:enumeration value="ErrorPropertyUpdate"/>
<xs:enumeration value="ErrorPropertyValidationFailure"/>
<xs:enumeration value="ErrorProxiedSubscriptionCallFailure"/>
<xs:enumeration value="ErrorProxyCallFailed"/>
<xs:enumeration value="ErrorProxyGroupSidLimitExceeded"/>
<xs:enumeration value="ErrorProxyRequestNotAllowed"/>
<xs:enumeration value="ErrorProxyRequestProcessingFailed"/>
<xs:enumeration value="ErrorProxyServiceDiscoveryFailed"/>
<xs:enumeration value="ErrorProxyTokenExpired"/>
<xs:enumeration value="ErrorPublicFolderRequestProcessingFailed"/>
<xs:enumeration value="ErrorPublicFolderServerNotFound"/>
<xs:enumeration value="ErrorQueryFilterTooLong"/>
<xs:enumeration value="ErrorQuotaExceeded"/>
<xs:enumeration value="ErrorReadEventsFailed"/>
<xs:enumeration value="ErrorReadReceiptNotPending"/>
<xs:enumeration value="ErrorRecurrenceEndDateTooBig"/>
<xs:enumeration value="ErrorRecurrenceHasNoOccurrence"/>
<xs:enumeration value="ErrorRemoveDelegatesFailed"/>
<xs:enumeration value="ErrorRequestAborted"/>
<xs:enumeration value="ErrorRequestStreamTooBig"/>
<xs:enumeration value="ErrorRequiredPropertyMissing"/>
<xs:enumeration value="ErrorResolveNamesInvalidFolderType"/>
<xs:enumeration value="ErrorResolveNamesOnlyOneContactsFolderAllowed"/>
<xs:enumeration value="ErrorResponseSchemaValidation"/>
<xs:enumeration value="ErrorRestrictionTooLong"/>
<xs:enumeration value="ErrorRestrictionTooComplex"/>
<xs:enumeration value="ErrorResultSetTooBig"/>
<xs:enumeration value="ErrorInvalidExchangeImpersonationHeaderData"/>
<xs:enumeration value="ErrorSavedItemFolderNotFound"/>
<xs:enumeration value="ErrorSchemaValidation"/>
<xs:enumeration value="ErrorSearchFolderNotInitialized"/>
<xs:enumeration value="ErrorSendAsDenied"/>
<xs:enumeration value="ErrorSendMeetingCancellationsRequired"/>
<xs:enumeration value="ErrorSendMeetingInvitationsOrCancellationsRequired"/>
<xs:enumeration value="ErrorSendMeetingInvitationsRequired"/>
<xs:enumeration value="ErrorSentMeetingRequestUpdate"/>
<xs:enumeration value="ErrorSentTaskRequestUpdate"/>
<xs:enumeration value="ErrorServerBusy"/>
<xs:enumeration value="ErrorServiceDiscoveryFailed"/>
<xs:enumeration value="ErrorStaleObject"/>
<xs:enumeration value="ErrorSubmissionQuotaExceeded"/>
<xs:enumeration value="ErrorSubscriptionAccessDenied"/>
<xs:enumeration value="ErrorSubscriptionDelegateAccessNotSupported"/>
<xs:enumeration value="ErrorSubscriptionNotFound"/>
<xs:enumeration value="ErrorSubscriptionUnsubscribed"/>
<xs:enumeration value="ErrorSyncFolderNotFound"/>
<xs:enumeration value="ErrorTimeIntervalTooBig"/>
<xs:enumeration value="ErrorTimeoutExpired"/>
<xs:enumeration value="ErrorTimeZone"/>
<xs:enumeration value="ErrorToFolderNotFound"/>
<xs:enumeration value="ErrorTokenSerializationDenied"/>
<xs:enumeration value="ErrorUpdatePropertyMismatch"/>
<xs:enumeration value="ErrorUnifiedMessagingDialPlanNotFound"/>
<xs:enumeration value="ErrorUnifiedMessagingRequestFailed"/>
<xs:enumeration value="ErrorUnifiedMessagingServerNotFound"/>
<xs:enumeration value="ErrorUnableToGetUserOofSettings"/>
```

```
                <xs:enumeration value="ErrorUnsupportedSubFilter"/>
                <xs:enumeration value="ErrorUnsupportedCulture"/>
                <xs:enumeration value="ErrorUnsupportedMapiPropertyType"/>
                <xs:enumeration value="ErrorUnsupportedMimeConversion"/>
                <xs:enumeration value="ErrorUnsupportedPathForQuery"/>
                <xs:enumeration value="ErrorUnsupportedPathForSortGroup"/>
                <xs:enumeration value="ErrorUnsupportedPropertyDefinition"/>
                <xs:enumeration value="ErrorUnsupportedQueryFilter"/>
                <xs:enumeration value="ErrorUnsupportedRecurrence"/>
                <xs:enumeration value="ErrorUnsupportedTypeForConversion"/>
                <xs:enumeration value="ErrorUpdateDelegatesFailed"/>
                <xs:enumeration value="ErrorUserNotUnifiedMessagingEnabled"/>
                <xs:enumeration value="ErrorVoiceMailNotImplemented"/>
                <xs:enumeration value="ErrorValueOutOfRange"/>
                <xs:enumeration value="ErrorVirusDetected"/>
                <xs:enumeration value="ErrorVirusMessageDeleted"/>
                <xs:enumeration value="ErrorWebRequestInInvalidState"/>
                <xs:enumeration value="ErrorWin32InteropError"/>
                <xs:enumeration value="ErrorWorkingHoursSaveFailed"/>
                <xs:enumeration value="ErrorWorkingHoursXmlMalformed"/>
                <xs:enumeration value="ErrorWrongServerVersion"/>
                <xs:enumeration value="ErrorWrongServerVersionDelegate"/>
                <xs:enumeration value="ErrorMissingInformationSharingFolderId"/>
                <xs:enumeration value="ErrorDuplicateSOAPHeader"/>
                <xs:enumeration value="ErrorSharingSynchronizationFailed"/>
                <xs:enumeration value="ErrorSharingNoExternalEwsAvailable"/>
                <xs:enumeration value="ErrorFreeBusyDLLimitReached"/>
                <xs:enumeration value="ErrorInvalidGetSharingFolderRequest"/>
                <xs:enumeration value="ErrorNotAllowedExternalSharingByPolicy"/>
                <xs:enumeration value="ErrorUserNotAllowedByPolicy"/>
                <xs:enumeration value="ErrorPermissionNotAllowedByPolicy"/>
                <xs:enumeration value="ErrorOrganizationNotFederated"/>
                <xs:enumeration value="ErrorMailboxFailover"/>
                <xs:enumeration value="ErrorInvalidExternalSharingInitiator"/>
                <xs:enumeration value="ErrorMessageTrackingPermanentError"/>
                <xs:enumeration value="ErrorMessageTrackingTransientError"/>
                <xs:enumeration value="ErrorMessageTrackingNoSuchDomain"/>
                <xs:enumeration value="ErrorUserWithoutFederatedProxyAddress"/>
                <xs:enumeration value="ErrorInvalidOrganizationRelationshipForFreeBusy"/>
                <xs:enumeration value="ErrorInvalidFederatedOrganizationId"/>
                <xs:enumeration value="ErrorInvalidExternalSharingSubscriber"/>
                <xs:enumeration value="ErrorInvalidSharingData"/>
                <xs:enumeration value="ErrorInvalidSharingMessage"/>
                <xs:enumeration value="ErrorNotSupportedSharingMessage"/>
                <xs:enumeration value="ErrorApplyConversationActionFailed"/>
                <xs:enumeration value="ErrorInboxRulesValidationError"/>
                <xs:enumeration value="ErrorOutlookRuleBlobExists"/>
                <xs:enumeration value="ErrorRulesOverQuota"/>
                <xs:enumeration value="ErrorNewEventStreamConnectionOpened"/>
                <xs:enumeration value="ErrorMissedNotificationEvents"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:schema>
```

6.3 Types Schema

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

MS-OXWSCDATA-types.xsd includes the following file. To operate correctly, this file has to be present in the folder that contains the messages schema file.

File name	Defining specification
MS-OXWSFOLD-types.xsd	[MS-OXWSFOLD] section 6.
MS-OXWSMSG-types.xsd	[MS-OXWSMSG] section 6.2.
MS-OXWSATT-types.xsd	[MS-OXWSATT] section 6.2.
MS-OXWSDLIST-types.xsd	[MS-OXWSDLIST] section 6.2.
MS-OXWSTASK-types.xsd	[MS-OXWSTASK] section 6.2.

```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="Exchange2010_SP1"
                   id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSMSG-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSFOLD-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSATT-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSDLIST-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSTASK-types.xsd"/>
  <xs:complexType name="AbsoluteMonthlyRecurrencePatternType">
    <xs:complexContent>
      <xs:extension base="t:IntervalRecurrencePatternBaseType">
        <xs:sequence>
          <xs:element name="DayOfMonth" type="xs:int"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="AbsoluteYearlyRecurrencePatternType">
    <xs:complexContent>
      <xs:extension base="t:RecurrencePatternBaseType">
        <xs:sequence>
          <xs:element name="DayOfMonth" type="xs:int"/>
          <xs:element name="Month" type="t:MonthNamesType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="AcceptSharingInvitationType">
    <xs:complexContent>
      <xs:extension base="t:ReferenceItemResponseType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ArrayOfCalendarPermissionsType">
```

```xml
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="CalendarPermission" type="t:CalendarPermissionType"/>
      </xs:choice>
    </xs:complexType>
    <xs:complexType name="ArrayOfEmailAddressesType">
      <xs:sequence>
        <xs:element name="Address" type="t:EmailAddressType" minOccurs="0"
 maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="ArrayOfPermissionsType">
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Permission" type="t:PermissionType"/>
      </xs:choice>
    </xs:complexType>
    <xs:complexType name="ArrayOfRealItemsType">
      <xs:sequence>
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="Item" type="t:ItemType"/>
          <xs:element name="Message" type="t:MessageType"/>
          <xs:element name="CalendarItem" type="t:CalendarItemType"/>
          <xs:element name="Contact" type="t:ContactItemType"/>
          <xs:element name="DistributionList" type="t:DistributionListType"/>
          <xs:element name="MeetingMessage" type="t:MeetingMessageType"/>
          <xs:element name="MeetingRequest" type="t:MeetingRequestMessageType"/>
          <xs:element name="MeetingResponse" type="t:MeetingResponseMessageType"/>
          <xs:element name="MeetingCancellation" type="t:MeetingCancellationMessageType"/>
          <xs:element name="Task" type="t:TaskType"/>
          <xs:element name="PostItem" type="t:PostItemType"/>
        </xs:choice>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="ArrayOfRecipientsType">
      <xs:choice minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Mailbox" type="t:EmailAddressType"/>
      </xs:choice>
    </xs:complexType>
    <xs:complexType name="ArrayOfStringsType">
      <xs:sequence>
        <xs:element name="String" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="BaseEmailAddressType"/>
    <xs:complexType name="BaseItemIdType" abstract="true"/>
    <xs:complexType name="BasePathToElementType" abstract="true"/>
    <xs:complexType name="BodyType">
      <xs:simpleContent>
        <xs:extension base="xs:string">
          <xs:attribute name="BodyType" type="t:BodyTypeType" use="required"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
    <xs:simpleType name="BodyTypeResponseType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Best"/>
        <xs:enumeration value="HTML"/>
        <xs:enumeration value="Text"/>
      </xs:restriction>
    </xs:simpleType>
```

```
<xs:simpleType name="BodyTypeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="HTML"/>
    <xs:enumeration value="Text"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="ConnectingSIDType">
  <xs:choice>
    <xs:element name="PrincipalName" type="t:NonEmptyStringType"/>
    <xs:element name="SID" type="t:NonEmptyStringType"/>
    <xs:element name="PrimarySmtpAddress" type="t:NonEmptyStringType"/>
    <xs:element name="SmtpAddress" type="t:NonEmptyStringType"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="ConstantValueType">
  <xs:attribute name="Value" type="xs:string" use="required"/>
</xs:complexType>
<xs:complexType name="DailyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension base="t:IntervalRecurrencePatternBaseType"/>
  </xs:complexContent>
</xs:complexType>
<xs:simpleType name="DayOfWeekIndexType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="First"/>
    <xs:enumeration value="Second"/>
    <xs:enumeration value="Third"/>
    <xs:enumeration value="Fourth"/>
    <xs:enumeration value="Last"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DayOfWeekType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Sunday"/>
    <xs:enumeration value="Monday"/>
    <xs:enumeration value="Tuesday"/>
    <xs:enumeration value="Wednesday"/>
    <xs:enumeration value="Thursday"/>
    <xs:enumeration value="Friday"/>
    <xs:enumeration value="Saturday"/>
    <xs:enumeration value="Day"/>
    <xs:enumeration value="Weekday"/>
    <xs:enumeration value="WeekendDay"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="DaysOfWeekType">
  <xs:list itemType="t:DayOfWeekType"/>
</xs:simpleType>
<xs:simpleType name="DefaultShapeNamesType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="IdOnly"/>
    <xs:enumeration value="Default"/>
    <xs:enumeration value="AllProperties"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="DeletedOccurrenceInfoType">
  <xs:sequence>
    <xs:element name="Start" type="xs:dateTime"/>
  </xs:sequence>
```

```xml
        </xs:complexType>
        <xs:simpleType name="DictionaryURIType">
          <xs:restriction base="xs:string">
            <xs:enumeration value="item:InternetMessageHeader"/>
            <xs:enumeration value="contacts:ImAddress"/>
            <xs:enumeration value="contacts:PhysicalAddress:Street"/>
            <xs:enumeration value="contacts:PhysicalAddress:City"/>
            <xs:enumeration value="contacts:PhysicalAddress:State"/>
            <xs:enumeration value="contacts:PhysicalAddress:CountryOrRegion"/>
            <xs:enumeration value="contacts:PhysicalAddress:PostalCode"/>
            <xs:enumeration value="contacts:PhoneNumber"/>
            <xs:enumeration value="contacts:EmailAddress"/>
            <xs:enumeration value="distributionlist:Members:Member"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType name="DisposalType">
          <xs:restriction base="xs:string">
            <xs:enumeration value="HardDelete"/>
            <xs:enumeration value="SoftDelete"/>
            <xs:enumeration value="MoveToDeletedItems"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType name="DistinguishedFolderIdNameType">
          <xs:restriction base="xs:string">
            <xs:enumeration value="calendar"/>
            <xs:enumeration value="contacts"/>
            <xs:enumeration value="deleteditems"/>
            <xs:enumeration value="drafts"/>
            <xs:enumeration value="inbox"/>
            <xs:enumeration value="journal"/>
            <xs:enumeration value="notes"/>
            <xs:enumeration value="outbox"/>
            <xs:enumeration value="sentitems"/>
            <xs:enumeration value="tasks"/>
            <xs:enumeration value="msgfolderroot"/>
            <xs:enumeration value="publicfoldersroot"/>
            <xs:enumeration value="root"/>
            <xs:enumeration value="junkemail"/>
            <xs:enumeration value="searchfolders"/>
            <xs:enumeration value="voicemail"/>
            <xs:enumeration value="recoverableitemsroot" />
            <xs:enumeration value="recoverableitemsdeletions" />
            <xs:enumeration value="recoverableitemsversions" />
            <xs:enumeration value="recoverableitemspurges" />
            <xs:enumeration value="archiveroot" />
            <xs:enumeration value="archivemsgfolderroot" />
            <xs:enumeration value="archivedeleteditems" />
            <xs:enumeration value="archiverecoverableitemsroot" />
            <xs:enumeration value="archiverecoverableitemsdeletions" />
            <xs:enumeration value="archiverecoverableitemsversions" />
            <xs:enumeration value="archiverecoverableitemspurges" />
          </xs:restriction>
        </xs:simpleType>
        <xs:complexType name="DistinguishedFolderIdType">
          <xs:complexContent>
            <xs:extension base="t:BaseFolderIdType">
              <xs:sequence>
                <xs:element name="Mailbox" type="t:EmailAddressType" minOccurs="0"/>
              </xs:sequence>
```

```xml
            <xs:attribute name="Id" type="t:DistinguishedFolderIdNameType" use="required"/>
            <xs:attribute name="ChangeKey" type="xs:string" use="optional"/>
          </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:simpleType name="DistinguishedPropertySetType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Meeting"/>
        <xs:enumeration value="Appointment"/>
        <xs:enumeration value="Common"/>
        <xs:enumeration value="PublicStrings"/>
        <xs:enumeration value="Address"/>
        <xs:enumeration value="InternetHeaders"/>
        <xs:enumeration value="CalendarAssistant"/>
        <xs:enumeration value="UnifiedMessaging"/>
        <xs:enumeration value="Task"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="DistinguishedUserType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Default"/>
        <xs:enumeration value="Anonymous"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:complexType name="Duration">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="StartTime" type="xs:dateTime"/>
        <xs:element minOccurs="1" maxOccurs="1" name="EndTime" type="xs:dateTime"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="EffectiveRightsType">
      <xs:sequence>
        <xs:element name="CreateAssociated" type="xs:boolean"/>
        <xs:element name="CreateContents" type="xs:boolean"/>
        <xs:element name="CreateHierarchy" type="xs:boolean"/>
        <xs:element name="Delete" type="xs:boolean"/>
        <xs:element name="Modify" type="xs:boolean"/>
        <xs:element name="Read" type="xs:boolean"/>
        <xs:element name="ViewPrivateItems" type="xs:boolean" minOccurs="0" maxOccurs="1" />
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="EmailAddress">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Address" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="RoutingType" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="EmailAddressType">
      <xs:complexContent>
        <xs:extension base="t:BaseEmailAddressType">
          <xs:sequence>
            <xs:element name="Name" type="xs:string" minOccurs="0"/>
            <xs:element name="EmailAddress" type="t:NonEmptyStringType" minOccurs="0"/>
            <xs:element name="RoutingType" type="t:NonEmptyStringType" minOccurs="0"/>
            <xs:element name="MailboxType" type="t:MailboxTypeType" minOccurs="0"/>
            <xs:element name="ItemId" type="t:ItemIdType" minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
```

```xml
      </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="EndDateRecurrenceRangeType">
      <xs:complexContent>
        <xs:extension base="t:RecurrenceRangeBaseType">
          <xs:sequence>
            <xs:element name="EndDate" type="xs:date"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="ExceptionFieldURI" type="t:PathToExceptionFieldType"/>
    <xs:simpleType name="ExceptionPropertyURIType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="attachment:Name"/>
        <xs:enumeration value="attachment:ContentType"/>
        <xs:enumeration value="attachment:Content"/>
        <xs:enumeration value="recurrence:Month"/>
        <xs:enumeration value="recurrence:DayOfWeekIndex"/>
        <xs:enumeration value="recurrence:DaysOfWeek"/>
        <xs:enumeration value="recurrence:DayOfMonth"/>
        <xs:enumeration value="recurrence:Interval"/>
        <xs:enumeration value="recurrence:NumberOfOccurrences"/>
        <xs:enumeration value="timezone:Offset"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:complexType name="ExchangeImpersonationType">
      <xs:sequence>
        <xs:element name="ConnectingSID" type="t:ConnectingSIDType"/>
      </xs:sequence>
      <xs:anyAttribute namespace="http://schemas.xmlsoap.org/soap/envelope/"/>
    </xs:complexType>
    <xs:element name="ExchangeImpersonation" type="t:ExchangeImpersonationType"/>
    <xs:simpleType name="ExchangeVersionType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Exchange2007"/>
        <xs:enumeration value="Exchange2007_SP1"/>
        <xs:enumeration value="Exchange2010"/>
        <xs:enumeration value="Exchange2010_SP1"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="ExcludesAttributeType">
      <xs:restriction base="xs:string">
        <xs:pattern value="((0x|0X)[0-9A-Fa-f]*)|([0-9]*)"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="FieldURI" type="t:PathToUnindexedFieldType" substitutionGroup="t:Path"/>
    <xs:complexType name="FieldURIOrConstantType">
      <xs:choice>
        <xs:element ref="t:Path"/>
        <xs:element name="Constant" type="t:ConstantValueType"/>
      </xs:choice>
    </xs:complexType>
    <xs:attributeGroup name="FindResponsePagingAttributes">
      <xs:attribute name="IndexedPagingOffset" type="xs:int" use="optional"/>
      <xs:attribute name="NumeratorOffset" type="xs:int" use="optional"/>
      <xs:attribute name="AbsoluteDenominator" type="xs:int" use="optional"/>
      <xs:attribute name="IncludesLastItemInRange" type="xs:boolean" use="optional"/>
      <xs:attribute name="TotalItemsInView" type="xs:int" use="optional"/>
```

```
      </xs:attributeGroup>
      <xs:complexType name="FolderIdType">
        <xs:complexContent>
          <xs:extension base="t:BaseFolderIdType">
            <xs:attribute name="Id" type="xs:string" use="required"/>
            <xs:attribute name="ChangeKey" type="xs:string" use="optional"/>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="FolderResponseShapeType">
        <xs:sequence>
          <xs:element name="BaseShape" type="t:DefaultShapeNamesType"/>
          <xs:element name="AdditionalProperties" type="t:NonEmptyArrayOfPathsToElementType"
  minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="ForwardItemType">
        <xs:complexContent>
          <xs:extension base="t:SmartResponseType"/>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="IndexedFieldURI" type="t:PathToIndexedFieldType"
  substitutionGroup="t:Path"/>
      <xs:complexType name="InternetHeaderType">
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attribute name="HeaderName" type="xs:string" use="required"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
      <xs:complexType name="IntervalRecurrencePatternBaseType" abstract="true">
        <xs:complexContent>
          <xs:extension base="t:RecurrencePatternBaseType">
            <xs:sequence>
              <xs:element name="Interval" type="xs:int"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="ItemResponseShapeType">
        <xs:sequence>
          <xs:element name="BaseShape" type="t:DefaultShapeNamesType"/>
          <xs:element name="IncludeMimeContent" type="xs:boolean" minOccurs="0"/>
          <xs:element name="BodyType" type="t:BodyTypeResponseType" minOccurs="0"/>
          <xs:element name="FilterHtmlContent" type="xs:boolean" minOccurs="0"/>
          <xs:element name="ConvertHtmlCodePageToUTF8" type="xs:boolean" minOccurs="0"
  maxOccurs="1"/>
          <xs:element name="AdditionalProperties" type="t:NonEmptyArrayOfPathsToElementType"
  minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <xs:simpleType name="LegacyFreeBusyType">
        <xs:restriction base="xs:string">
          <xs:enumeration value="Free"/>
          <xs:enumeration value="Tentative"/>
          <xs:enumeration value="Busy"/>
          <xs:enumeration value="OOF"/>
          <xs:enumeration value="NoData"/>
        </xs:restriction>
```

```
      </xs:simpleType>
      <xs:complexType name="MailboxCultureType">
        <xs:simpleContent>
          <xs:extension base="xs:language">
            <xs:anyAttribute namespace="http://schemas.xmlsoap.org/soap/envelope/"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
      <xs:element name="MailboxCulture" type="t:MailboxCultureType"/>
      <xs:simpleType name="MailboxTypeType">
        <xs:restriction base="xs:string">
          <xs:enumeration value="Unknown"/>
          <xs:enumeration value="OneOff"/>
          <xs:enumeration value="Mailbox"/>
          <xs:enumeration value="PublicDL"/>
          <xs:enumeration value="PrivateDL"/>
          <xs:enumeration value="Contact"/>
          <xs:enumeration value="PublicFolder"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType name="MonthNamesType">
        <xs:restriction base="xs:string">
          <xs:enumeration value="January"/>
          <xs:enumeration value="February"/>
          <xs:enumeration value="March"/>
          <xs:enumeration value="April"/>
          <xs:enumeration value="May"/>
          <xs:enumeration value="June"/>
          <xs:enumeration value="July"/>
          <xs:enumeration value="August"/>
          <xs:enumeration value="September"/>
          <xs:enumeration value="October"/>
          <xs:enumeration value="November"/>
          <xs:enumeration value="December"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:complexType name="NoEndRecurrenceRangeType">
        <xs:complexContent>
          <xs:extension base="t:RecurrenceRangeBaseType"/>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="NonEmptyArrayOfAllItemsType">
        <xs:sequence>
          <xs:choice maxOccurs="unbounded">
            <xs:element name="Item" type="t:ItemType"/>
            <xs:element name="Message" type="t:MessageType"/>
            <xs:element name="CalendarItem" type="t:CalendarItemType"/>
            <xs:element name="Contact" type="t:ContactItemType"/>
            <xs:element name="DistributionList" type="t:DistributionListType"/>
            <xs:element name="MeetingMessage" type="t:MeetingMessageType"/>
            <xs:element name="MeetingRequest" type="t:MeetingRequestMessageType"/>
            <xs:element name="MeetingResponse" type="t:MeetingResponseMessageType"/>
            <xs:element name="MeetingCancellation" type="t:MeetingCancellationMessageType"/>
            <xs:element name="Task" type="t:TaskType"/>
            <xs:element name="PostItem" type="t:PostItemType"/>
            <xs:element name="ReplyToItem" type="t:ReplyToItemType"/>
            <xs:element name="ForwardItem" type="t:ForwardItemType"/>
            <xs:element name="ReplyAllToItem" type="t:ReplyAllToItemType"/>
            <xs:element name="AcceptItem" type="t:AcceptItemType"/>
```

```xml
            <xs:element name="TentativelyAcceptItem" type="t:TentativelyAcceptItemType"/>
            <xs:element name="DeclineItem" type="t:DeclineItemType"/>
            <xs:element name="CancelCalendarItem" type="t:CancelCalendarItemType"/>
            <xs:element name="RemoveItem" type="t:RemoveItemType"/>
            <xs:element name="SuppressReadReceipt" type="t:SuppressReadReceiptType"/>
            <xs:element name="PostReplyItem" type="t:PostReplyItemType"/>
            <xs:element name="AcceptSharingInvitation" type="t:AcceptSharingInvitationType"/>
        </xs:choice>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="NonEmptyArrayOfAttachmentsType">
    <xs:choice maxOccurs="unbounded">
        <xs:element name="ItemAttachment" type="t:ItemAttachmentType"/>
        <xs:element name="FileAttachment" type="t:FileAttachmentType"/>
    </xs:choice>
</xs:complexType>
<xs:complexType name="NonEmptyArrayOfPathsToElementType">
    <xs:choice maxOccurs="unbounded">
        <xs:element ref="t:Path"/>
    </xs:choice>
</xs:complexType>
<xs:simpleType name="NonEmptyStringType">
    <xs:restriction base="xs:string">
        <xs:minLength value="1"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="NumberedRecurrenceRangeType">
    <xs:complexContent>
        <xs:extension base="t:RecurrenceRangeBaseType">
            <xs:sequence>
                <xs:element name="NumberOfOccurrences" type="xs:int"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="Path" type="t:BasePathToElementType" abstract="true"/>
<xs:complexType name="PathToExceptionFieldType">
    <xs:complexContent>
        <xs:extension base="t:BasePathToElementType">
            <xs:attribute name="FieldURI" type="t:ExceptionPropertyURIType" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="PathToIndexedFieldType">
    <xs:complexContent>
        <xs:extension base="t:BasePathToElementType">
            <xs:attribute name="FieldURI" type="t:DictionaryURIType" use="required"/>
            <xs:attribute name="FieldIndex" type="xs:string" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="PathToUnindexedFieldType">
    <xs:complexContent>
        <xs:extension base="t:BasePathToElementType">
            <xs:attribute name="FieldURI" type="t:UnindexedFieldURIType" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="RecurrencePatternBaseType" abstract="true"/>
```

```xml
<xs:group name="RecurrencePatternTypes">
  <xs:sequence>
    <xs:choice>
      <xs:element name="RelativeYearlyRecurrence"
type="t:RelativeYearlyRecurrencePatternType"/>
      <xs:element name="AbsoluteYearlyRecurrence"
type="t:AbsoluteYearlyRecurrencePatternType"/>
      <xs:element name="RelativeMonthlyRecurrence"
type="t:RelativeMonthlyRecurrencePatternType"/>
      <xs:element name="AbsoluteMonthlyRecurrence"
type="t:AbsoluteMonthlyRecurrencePatternType"/>
      <xs:element name="WeeklyRecurrence" type="t:WeeklyRecurrencePatternType"/>
      <xs:element name="DailyRecurrence" type="t:DailyRecurrencePatternType"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
<xs:complexType name="RecurrenceRangeBaseType" abstract="true">
  <xs:sequence>
    <xs:element name="StartDate" type="xs:date"/>
  </xs:sequence>
</xs:complexType>
<xs:group name="RecurrenceRangeTypes">
  <xs:sequence>
    <xs:choice>
      <xs:element name="NoEndRecurrence" type="t:NoEndRecurrenceRangeType"/>
      <xs:element name="EndDateRecurrence" type="t:EndDateRecurrenceRangeType"/>
      <xs:element name="NumberedRecurrence" type="t:NumberedRecurrenceRangeType"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
<xs:complexType name="RelativeMonthlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension base="t:IntervalRecurrencePatternBaseType">
      <xs:sequence>
        <xs:element name="DaysOfWeek" type="t:DayOfWeekType"/>
        <xs:element name="DayOfWeekIndex" type="t:DayOfWeekIndexType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="RelativeYearlyRecurrencePatternType">
  <xs:complexContent>
    <xs:extension base="t:RecurrencePatternBaseType">
      <xs:sequence>
        <xs:element name="DaysOfWeek" type="t:DayOfWeekType"/>
        <xs:element name="DayOfWeekIndex" type="t:DayOfWeekIndexType"/>
        <xs:element name="Month" type="t:MonthNamesType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ReplyAllToItemType">
  <xs:complexContent>
    <xs:extension base="t:SmartResponseType"/>
  </xs:complexContent>
</xs:complexType>
<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>
    <xs:complexType name="ReplyToItemType">
      <xs:complexContent>
        <xs:extension base="t:SmartResponseType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RequestServerVersion">
      <xs:complexType>
        <xs:attribute name="Version" type="t:ExchangeVersionType" use="required"
 fixed="Exchange2010_SP1"/>
        <xs:anyAttribute namespace="http://schemas.xmlsoap.org/soap/envelope/"/>
      </xs:complexType>
    </xs:element>
    <xs:simpleType name="ResponseClassType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Success"/>
        <xs:enumeration value="Warning"/>
        <xs:enumeration value="Error"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:complexType name="ResponseObjectCoreType" abstract="true">
      <xs:complexContent>
        <xs:extension base="t:MessageType">
          <xs:sequence>
            <xs:element name="ReferenceItemId" type="t:ItemIdType" minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="ResponseObjectType" abstract="true">
      <xs:complexContent>
        <xs:extension base="t:ResponseObjectCoreType">
          <xs:attribute name="ObjectName" type="xs:string" use="optional"/>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:simpleType name="SensitivityChoicesType">
      <xs:restriction base="xs:string">
        <xs:enumeration value="Normal"/>
        <xs:enumeration value="Personal"/>
        <xs:enumeration value="Private"/>
        <xs:enumeration value="Confidential"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="ServerVersionInfo">
      <xs:complexType>
        <xs:attribute name="MajorVersion" type="xs:int" use="optional"/>
        <xs:attribute name="MinorVersion" type="xs:int" use="optional"/>
        <xs:attribute name="MajorBuildNumber" type="xs:int" use="optional"/>
        <xs:attribute name="MinorBuildNumber" type="xs:int" use="optional"/>
        <xs:attribute name="Version" type="xs:string" use="optional"/>
      </xs:complexType>
    </xs:element>
    <xs:complexType name="SingleRecipientType">
      <xs:choice>
        <xs:element name="Mailbox" type="t:EmailAddressType"/>
      </xs:choice>
```

```xml
      </xs:complexType>
      <xs:complexType name="SuppressReadReceiptType">
        <xs:complexContent>
          <xs:extension base="t:ReferenceItemResponseType"/>
        </xs:complexContent>
      </xs:complexType>
      <xs:group name="TaskRecurrencePatternTypes">
        <xs:sequence>
          <xs:choice>
            <xs:element name="RelativeYearlyRecurrence"
type="t:RelativeYearlyRecurrencePatternType"/>
            <xs:element name="AbsoluteYearlyRecurrence"
type="t:AbsoluteYearlyRecurrencePatternType"/>
            <xs:element name="RelativeMonthlyRecurrence"
type="t:RelativeMonthlyRecurrencePatternType"/>
            <xs:element name="AbsoluteMonthlyRecurrence"
type="t:AbsoluteMonthlyRecurrencePatternType"/>
            <xs:element name="WeeklyRecurrence" type="t:WeeklyRecurrencePatternType"/>
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            <xs:element name="DailyRegeneration" type="t:DailyRegeneratingPatternType"/>
            <xs:element name="WeeklyRegeneration" type="t:WeeklyRegeneratingPatternType"/>
            <xs:element name="MonthlyRegeneration" type="t:MonthlyRegeneratingPatternType"/>
            <xs:element name="YearlyRegeneration" type="t:YearlyRegeneratingPatternType"/>
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        </xs:sequence>
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      <xs:group name="TimeChangePatternTypes">
        <xs:sequence>
          <xs:choice>
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type="t:RelativeYearlyRecurrencePatternType"/>
            <xs:element name="AbsoluteDate" type="xs:date"/>
          </xs:choice>
        </xs:sequence>
      </xs:group>
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          <xs:enumeration value="folder:DisplayName"/>
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          <xs:enumeration value="folder:TotalCount"/>
          <xs:enumeration value="folder:ChildFolderCount"/>
          <xs:enumeration value="folder:FolderClass"/>
          <xs:enumeration value="folder:SearchParameters"/>
          <xs:enumeration value="folder:ManagedFolderInformation"/>
          <xs:enumeration value="folder:PermissionSet"/>
          <xs:enumeration value="folder:EffectiveRights"/>
          <xs:enumeration value="folder:SharingEffectiveRights"/>
          <xs:enumeration value="item:ItemId"/>
          <xs:enumeration value="item:ParentFolderId"/>
          <xs:enumeration value="item:ItemClass"/>
          <xs:enumeration value="item:MimeContent"/>
          <xs:enumeration value="item:Attachments"/>
          <xs:enumeration value="item:Subject"/>
          <xs:enumeration value="item:DateTimeReceived"/>
          <xs:enumeration value="item:Size"/>
          <xs:enumeration value="item:Categories"/>
          <xs:enumeration value="item:HasAttachments"/>
```

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<xs:enumeration value="item:Importance"/>
<xs:enumeration value="item:InReplyTo"/>
<xs:enumeration value="item:InternetMessageHeaders"/>
<xs:enumeration value="item:IsAssociated"/>
<xs:enumeration value="item:IsDraft"/>
<xs:enumeration value="item:IsFromMe"/>
<xs:enumeration value="item:IsResend"/>
<xs:enumeration value="item:IsSubmitted"/>
<xs:enumeration value="item:IsUnmodified"/>
<xs:enumeration value="item:DateTimeSent"/>
<xs:enumeration value="item:DateTimeCreated"/>
<xs:enumeration value="item:Body"/>
<xs:enumeration value="item:ResponseObjects"/>
<xs:enumeration value="item:Sensitivity"/>
<xs:enumeration value="item:ReminderDueBy"/>
<xs:enumeration value="item:ReminderIsSet"/>
<xs:enumeration value="item:ReminderMinutesBeforeStart"/>
<xs:enumeration value="item:DisplayTo"/>
<xs:enumeration value="item:DisplayCc"/>
<xs:enumeration value="item:Culture"/>
<xs:enumeration value="item:EffectiveRights"/>
<xs:enumeration value="item:LastModifiedName"/>
<xs:enumeration value="item:LastModifiedTime"/>
<xs:enumeration value="item:ConversationId"/>
<xs:enumeration value="item:UniqueBody"/>
<xs:enumeration value="item:WebClientReadFormQueryString"/>
<xs:enumeration value="item:WebClientEditFormQueryString"/>
<xs:enumeration value="message:ConversationIndex"/>
<xs:enumeration value="message:ConversationTopic"/>
<xs:enumeration value="message:InternetMessageId"/>
<xs:enumeration value="message:IsRead"/>
<xs:enumeration value="message:IsResponseRequested"/>
<xs:enumeration value="message:IsReadReceiptRequested"/>
<xs:enumeration value="message:IsDeliveryReceiptRequested"/>
<xs:enumeration value="message:ReceivedBy"/>
<xs:enumeration value="message:ReceivedRepresenting"/>
<xs:enumeration value="message:References"/>
<xs:enumeration value="message:ReplyTo"/>
<xs:enumeration value="message:From"/>
<xs:enumeration value="message:Sender"/>
<xs:enumeration value="message:ToRecipients"/>
<xs:enumeration value="message:CcRecipients"/>
<xs:enumeration value="message:BccRecipients"/>
<xs:enumeration value="meeting:AssociatedCalendarItemId"/>
<xs:enumeration value="meeting:IsDelegated"/>
<xs:enumeration value="meeting:IsOutOfDate"/>
<xs:enumeration value="meeting:HasBeenProcessed"/>
<xs:enumeration value="meeting:ResponseType"/>
<xs:enumeration value="meetingRequest:MeetingRequestType"/>
<xs:enumeration value="meetingRequest:IntendedFreeBusyStatus"/>
<xs:enumeration value="calendar:Start"/>
<xs:enumeration value="calendar:End"/>
<xs:enumeration value="calendar:OriginalStart"/>
<xs:enumeration value="calendar:IsAllDayEvent"/>
<xs:enumeration value="calendar:LegacyFreeBusyStatus"/>
<xs:enumeration value="calendar:Location"/>
<xs:enumeration value="calendar:When"/>
<xs:enumeration value="calendar:IsMeeting"/>
<xs:enumeration value="calendar:IsCancelled"/>
```

```
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<xs:enumeration value="calendar:MeetingRequestWasSent"/>
<xs:enumeration value="calendar:IsResponseRequested"/>
<xs:enumeration value="calendar:CalendarItemType"/>
<xs:enumeration value="calendar:MyResponseType"/>
<xs:enumeration value="calendar:Organizer"/>
<xs:enumeration value="calendar:RequiredAttendees"/>
<xs:enumeration value="calendar:OptionalAttendees"/>
<xs:enumeration value="calendar:Resources"/>
<xs:enumeration value="calendar:ConflictingMeetingCount"/>
<xs:enumeration value="calendar:AdjacentMeetingCount"/>
<xs:enumeration value="calendar:ConflictingMeetings"/>
<xs:enumeration value="calendar:AdjacentMeetings"/>
<xs:enumeration value="calendar:Duration"/>
<xs:enumeration value="calendar:TimeZone"/>
<xs:enumeration value="calendar:AppointmentReplyTime"/>
<xs:enumeration value="calendar:AppointmentSequenceNumber"/>
<xs:enumeration value="calendar:AppointmentState"/>
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<xs:enumeration value="calendar:FirstOccurrence"/>
<xs:enumeration value="calendar:LastOccurrence"/>
<xs:enumeration value="calendar:ModifiedOccurrences"/>
<xs:enumeration value="calendar:DeletedOccurrences"/>
<xs:enumeration value="calendar:MeetingTimeZone"/>
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<xs:enumeration value="calendar:IsOnlineMeeting"/>
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<xs:enumeration value="calendar:NetShowUrl"/>
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<xs:enumeration value="calendar:EndTimeZone"/>
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<xs:enumeration value="task:ChangeCount"/>
<xs:enumeration value="task:Companies"/>
<xs:enumeration value="task:CompleteDate"/>
<xs:enumeration value="task:Contacts"/>
<xs:enumeration value="task:DelegationState"/>
<xs:enumeration value="task:Delegator"/>
<xs:enumeration value="task:DueDate"/>
<xs:enumeration value="task:IsAssignmentEditable"/>
<xs:enumeration value="task:IsComplete"/>
<xs:enumeration value="task:IsRecurring"/>
<xs:enumeration value="task:IsTeamTask"/>
<xs:enumeration value="task:Mileage"/>
<xs:enumeration value="task:Owner"/>
<xs:enumeration value="task:PercentComplete"/>
<xs:enumeration value="task:Recurrence"/>
<xs:enumeration value="task:StartDate"/>
<xs:enumeration value="task:Status"/>
<xs:enumeration value="task:StatusDescription"/>
<xs:enumeration value="task:TotalWork"/>
<xs:enumeration value="contacts:AssistantName"/>
<xs:enumeration value="contacts:Birthday"/>
<xs:enumeration value="contacts:BusinessHomePage"/>
```

```
                    <xs:enumeration value="contacts:Children"/>
                    <xs:enumeration value="contacts:Companies"/>
                    <xs:enumeration value="contacts:CompanyName"/>
                    <xs:enumeration value="contacts:CompleteName"/>
                    <xs:enumeration value="contacts:ContactSource"/>
                    <xs:enumeration value="contacts:Culture"/>
                    <xs:enumeration value="contacts:Department"/>
                    <xs:enumeration value="contacts:DisplayName"/>
                    <xs:enumeration value="contacts:EmailAddresses"/>
                    <xs:enumeration value="contacts:FileAs"/>
                    <xs:enumeration value="contacts:FileAsMapping"/>
                    <xs:enumeration value="contacts:Generation"/>
                    <xs:enumeration value="contacts:GivenName"/>
                    <xs:enumeration value="contacts:ImAddresses"/>
                    <xs:enumeration value="contacts:Initials"/>
                    <xs:enumeration value="contacts:JobTitle"/>
                    <xs:enumeration value="contacts:Manager"/>
                    <xs:enumeration value="contacts:MiddleName"/>
                    <xs:enumeration value="contacts:Mileage"/>
                    <xs:enumeration value="contacts:Nickname"/>
                    <xs:enumeration value="contacts:OfficeLocation"/>
                    <xs:enumeration value="contacts:PhoneNumbers"/>
                    <xs:enumeration value="contacts:PhysicalAddresses"/>
                    <xs:enumeration value="contacts:PostalAddressIndex"/>
                    <xs:enumeration value="contacts:Profession"/>
                    <xs:enumeration value="contacts:SpouseName"/>
                    <xs:enumeration value="contacts:Surname"/>
                    <xs:enumeration value="contacts:WeddingAnniversary"/>
                    <xs:enumeration value="contacts:HasPicture"/>
                    <xs:enumeration value="distributionlist:Members"/>
                    <xs:enumeration value="postitem:PostedTime"/>
                    <xs:enumeration value ="conversation:ConversationId" />
                    <xs:enumeration value ="conversation:ConversationTopic" />
                    <xs:enumeration value ="conversation:UniqueRecipients" />
                    <xs:enumeration value ="conversation:GlobalUniqueRecipients" />
                    <xs:enumeration value ="conversation:UniqueUnreadSenders" />
                    <xs:enumeration value ="conversation:GlobalUniqueUnreadSenders" />
                    <xs:enumeration value ="conversation:UniqueSenders" />
                    <xs:enumeration value ="conversation:GlobalUniqueSenders" />
                    <xs:enumeration value ="conversation:LastDeliveryTime" />
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                    <xs:enumeration value ="conversation:GlobalCategories" />
                    <xs:enumeration value ="conversation:FlagStatus" />
                    <xs:enumeration value ="conversation:GlobalFlagStatus" />
                    <xs:enumeration value ="conversation:HasAttachments" />
                    <xs:enumeration value ="conversation:GlobalHasAttachments" />
                    <xs:enumeration value ="conversation:MessageCount" />
                    <xs:enumeration value ="conversation:GlobalMessageCount" />
                    <xs:enumeration value ="conversation:UnreadCount" />
                    <xs:enumeration value ="conversation:GlobalUnreadCount" />
                    <xs:enumeration value ="conversation:Size" />
                    <xs:enumeration value ="conversation:GlobalSize" />
                    <xs:enumeration value ="conversation:ItemClasses" />
                    <xs:enumeration value ="conversation:GlobalItemClasses" />
                    <xs:enumeration value ="conversation:Importance" />
                    <xs:enumeration value ="conversation:GlobalImportance" />
                    <xs:enumeration value ="conversation:ItemIds" />
                    <xs:enumeration value ="conversation:GlobalItemIds" />
```

```
      </xs:restriction>
    </xs:simpleType>
    <xs:complexType name="UserIdType">
      <xs:sequence>
        <xs:element name="SID" type="xs:string" minOccurs="0"/>
        <xs:element name="PrimarySmtpAddress" type="xs:string" minOccurs="0"/>
        <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
        <xs:element name="DistinguishedUser" type="t:DistinguishedUserType" minOccurs="0"/>
        <xs:element name="ExternalUserIdentity" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="Value">
      <xs:simpleContent>
        <xs:extension base="xs:string">
          <xs:attribute name="Name" type="xs:string" use="required"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
    <xs:element name="Value" type="t:Value"/>
    <xs:complexType name="WeeklyRecurrencePatternType">
      <xs:complexContent>
        <xs:extension base="t:IntervalRecurrencePatternBaseType">
          <xs:sequence>
            <xs:element name="DaysOfWeek" type="t:DaysOfWeekType"/>
            <xs:element name="FirstDayOfWeek" type="t:DayOfWeekType" minOccurs="0"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="WellKnownResponseObjectType">
      <xs:complexContent>
        <xs:restriction base="t:ResponseObjectType">
          <xs:sequence>
            <xs:element name="ItemClass" type="t:ItemClassType" minOccurs="0"/>
            <xs:element name="Sensitivity" type="t:SensitivityChoicesType" minOccurs="0"/>
            <xs:element name="Body" type="t:BodyType" minOccurs="0"/>
            <xs:element name="Attachments" type="t:NonEmptyArrayOfAttachmentsType"
 minOccurs="0"/>
            <xs:element name="InternetMessageHeaders"
 type="t:NonEmptyArrayOfInternetHeadersType" minOccurs="0"/>
            <xs:element name="Sender" type="t:SingleRecipientType" minOccurs="0"/>
            <xs:element name="ToRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
            <xs:element name="CcRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
            <xs:element name="BccRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
            <xs:element name="IsReadReceiptRequested" type="xs:boolean" minOccurs="0"/>
            <xs:element name="IsDeliveryReceiptRequested" type="xs:boolean" minOccurs="0"/>
            <xs:element name="From" type="t:SingleRecipientType" minOccurs="0"/>
            <xs:element name="ReferenceItemId" type="t:ItemIdType" minOccurs="0"/>
          </xs:sequence>
          <xs:attribute name="ObjectName" type="xs:string" use="prohibited"/>
        </xs:restriction>
      </xs:complexContent>
    </xs:complexType>
  </xs:schema>
```

7 Appendix B: Product Behavior

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

- Microsoft® Exchange Server 2007

- Microsoft® Exchange Server 2007 Service Pack 1 (SP1)

- Microsoft® Exchange Server 2010

- Microsoft® Exchange Server 2010 Service Pack 1 (SP1)

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.

<1> Section 2.2.2.9: Exchange 2007 and Exchange 2010 do not include the following enumeration values: recoverableitemsroot, recoverableitemsdeletions, recoverableitemsversions, recoverableitemspurges, archiveroot, archivemsgfolderroot, archivedeleteditems, archiverecoverableitemsroot, archiverecoverableitemsdeletions, archiverecoverableitemsversions, and archiverecoverableitemspurges.

<2> Section 2.2.2.13: Exchange 2007 does not include the **ExchangeVersionType** simple type.

<3> Section 2.2.2.13: Exchange 2007 only includes the target schema that is identified by the Exchange2007 enumeration value.

<4> Section 2.2.2.13: Exchange 2007 does not include the target schema that is identified by the Exchange2007_SP1 enumeration value.

<5> Section 2.2.2.13: Exchange 2007 and Exchange 2007 SP1 do not include the target schema that is identified by the Exchange2010 enumeration value.

<6> Section 2.2.2.13: Exchange 2007, Exchange 2007 SP1, and Exchange 2010 do not include the target schema that is identified by the Exchange2010_SP1 enumeration value.

<7> Section 2.2.2.20: Exchange 2007 and Exchange 2010 do not include the following response codes: ErrorAccessModeSpecified, ErrorCannotEmptyFolder, ErrorClientDisconnected, ErrorInvalidLogonType, ErrorNoApplicableProxyCASServersAvailable, ErrorNoPublicFolderServerAvailable, ErrorProxyServiceDiscoveryFailed, ErrorSubscriptionUnsubscribed, ErrorOutlookRuleBlobExists, ErrorRulesOverQuota, ErrorInboxRulesValidationError, ErrorNewEventStreamConnectionOpened, ErrorMissedNotifcationEvents, and ErrorApplyConversationActionFailed.

<8> Section 2.2.2.22: Exchange 2007 and Exchange 2010 do not include the following enumeration values: conversation:ConversationId, conversation:ConversationTopic, conversation:UniqueRecipients, conversation:GlobalUniqueRecipients, conversation:UniqueUnreadSenders, conversation:GlobalUniqueUnreadSenders, conversation:UniqueSenders, conversation:GlobalUniqueSenders, conversation:LastDeliveryTime, conversation:GlobalLastDeliveryTime, conversation:Categories, conversation:GlobalCategories,

conversation:FlagStatus, conversation:GlobalFlagStatus, conversation:HasAttachments, conversation:GlobalHasAttachments, conversation:MessageCount, conversation:GlobalMessageCount, conversation:UnreadCount, conversation:GlobalUnreadCount, conversation:Size, conversation:GlobalSize, conversation:ItemClasses, conversation:GlobalItemClasses, conversation:Importance, conversation:GlobalImportance, conversation:ItemIds, and conversation:GlobalItemIds.

<9> Section 2.2.3.9: Exchange 2007 and Exchange 2010 do not include the <EmptyFolderResponseMessage> element.

<10> Section 2.2.3.9: Exchange 2007 and Exchange 2010 do not include the <UploadItemsResponseMessage> element.

<11> Section 2.2.3.9: Exchange 2007 and Exchange 2010 do not include the <ExportItemsResponseMessage> element.

<12> Section 2.2.3.9: Exchange 2007 and Exchange 2010 do not include the <GetStreamingEventsResponseMessage> element.

<13> Section 2.2.3.9: Exchange 2007 and Exchange 2010 do not include the <ApplyConversationActionResponseMessage> element.

<14> Section 2.2.3.23: Exchange 2007 and Exchange 2010 do not include the <ViewPrivateItems> element.

<15> Section 2.2.3.35: Exchange 2007 and Exchange 2010 do not include the <ConvertHtmlCodePageToUTF8> element.

<16> Section 2.2.3.59: Exchange 2007 and Exchange 2010 do not include the <FirstDayOfWeek> element.

<17> Section 2.2.4.7: Exchange 2007 does not include the <RequestServerVersion> element. Exchange 2007 SP1 includes a **fixed** attribute with a value equal to **Exchange2007_SP1**. Exchange 2010 includes a **fixed** attribute with a value equal to **Exchange2010**.

8   Change Tracking

This section identifies changes that were made to the [MS-OXWSCDATA] protocol document between the May 2010 and August 2010 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

- A document revision that incorporates changes to interoperability requirements or functionality.

- An extensive rewrite, addition, or deletion of major portions of content.

- The removal of a document from the documentation set.

- Changes made for template compliance.

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

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

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

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

- New content added.

- Content updated.

- Content removed.

- New product behavior note added.

- Product behavior note updated.

- Product behavior note removed.

- New protocol syntax added.

- Protocol syntax updated.

- Protocol syntax removed.

- New content added due to protocol revision.

- Content updated due to protocol revision.

- Content removed due to protocol revision.

- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.

- Protocol syntax removed due to protocol revision.

- New content added for template compliance.

- Content updated for template compliance.

- Content removed for template compliance.

- Obsolete document removed.

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

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

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.

- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1.1 Glossary	57303 Added the following to the list of terms that are defined in [MS-OXGLOS]: "Calendar folder", "Deleted Items folder", "Drafts folder", "Inbox folder", "Junk E-mail folder", "Outbox folder", "public folder", and "Sent Items folder".	N	Content update.
1.2.1 Normative References	55751 Moved [MS-OXGLOS] from Normative References section to Informative References section.	N	Content update.
1.2.1 Normative References	57730 Added references to [MS-OXWSBTRF], [MS-OXWSCONV], [MS-OXWSMTRK], and [MS-OXWSUSRCFG],	N	Content update.
1.2.1 Normative References	57730 Removed references to [RFC2396], [RFC2616], [RFC2818], and [SOAP1.1]	N	Content update.
2.2.1 Namespaces	57730 Removed references to [MS-OXWSCDATA].	N	Content removed.
2.2.2.9 t:DistinguishedFolderIdNameType Simple Type	56031 Added a product behavior note.	Y	New product behavior

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			note added.
2.2.2.13 t:ExchangeVersionType Simple Type	56031 Added product behavior notes that describe which product versions do not include the enumeration values.	Y	New product behavior note added.
2.2.2.13 t:ExchangeVersionType Simple Type	56031 Updated the descriptions of the enumeration values.	N	Content update.
2.2.2.20 m:ResponseCodeType Simple Type	56031 Added a product behavior note.	Y	New product behavior note added.
2.2.2.22 t:UnindexedFieldURIType Simple Type	56031 Added a product behavior note that lists the values that are not included in Exchange 2010.	Y	New product behavior note added.
2.2.3.9 m:ArrayOfResponseMessagesType Complex Type	56031 Added product behavior notes.	Y	New product behavior note added.
2.2.3.23 t:EffectiveRightsType Complex Type	56031 Added a product behavior note that states that Exchange 2010 does not implement the ViewPrivateItems element.	Y	New product behavior note added.
2.2.3.35 t:ItemResponseShapeType Complex Type	56031 Added a product behavior note.	Y	New product behavior note added.
2.2.3.35 t:ItemResponseShapeType Complex Type	57730 Updated the reference to [MS-OXWSSYNC].	N	Content update.
2.2.3.59 t:WeeklyRecurrencePatternType Complex Type	56031 Added a product behavior note.	Y	New product behavior note added.
2.2.4.7 t:RequestServerVersion Element	56031 Added a product behavior note.	Y	New product behavior note added.
7 Appendix B: Product Behavior	56663 Removed "Beta" from the Exchange 2010 SP1 product name.	N	Content update.

Release: Thursday, July 29, 2010

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
7 Appendix B: Product Behavior	Added Exchange 2007 SP1 to the list of applicable products.	Y	Content update.

9 Index

Release: Thursday, July 29, 2010