

[MS-OXWSCVTID]: Convert Item Identifier Web Service Protocol Specification

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Revision Summary

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1 Introduction

This document specifies the Convert Item Identifier Web Service protocol, which enables a client to convert among the different identifier formats that can be used to locate items that are stored on the server.

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Socket Layers (HTTPS)
mailbox
public folder
SOAP body
SOAP fault
SOAP message
Web Services Description Language (WSDL)
WSDL message
WSDL port type
XML
XML schema

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-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)", June 2008.

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](#)", June 2008.

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

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

[RFC2396] Berners-Lee, T., Fielding, R., and Masinter, L., "Uniform Resource Identifiers (URI): Generic Syntax", RFC 2396, August 1998, <http://www.ietf.org/rfc/rfc2396.txt>.

[RFC2616] Fielding, R., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>.

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

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

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>.

[XMLNS] World Wide Web Consortium, "Namespaces in XML 1.0 (Second Edition)", August 2006, <http://www.w3.org/TR/REC-xml-names/>.

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

[XMLSCHEMA2] Biron, P.V., Ed., and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>.

1.2.2 Informative References

None.

1.3 Protocol Overview

The Convert Item Identifier Web Service protocol enables clients to obtain alternative identifiers for items that are stored by the server. Those identifiers can then be used to access the stored items by using other protocols and programmatic interfaces that are available on the server.

1.4 Relationship to Other Protocols

The Convert Item Identifier Web Service protocol uses SOAP over **HTTP** and SOAP over **HTTPS**, as shown in the following figures.

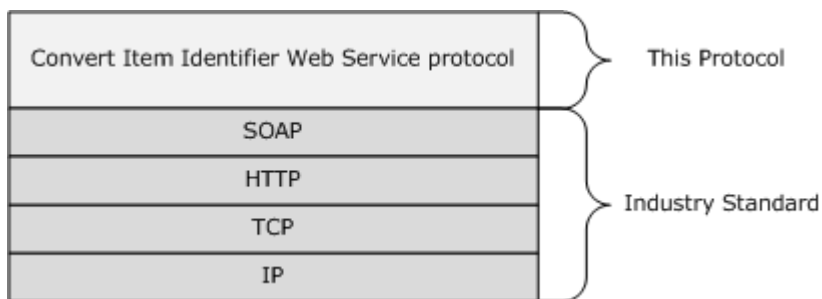


Figure 1: Convert Item Identifier Web Service protocol HTTP stack

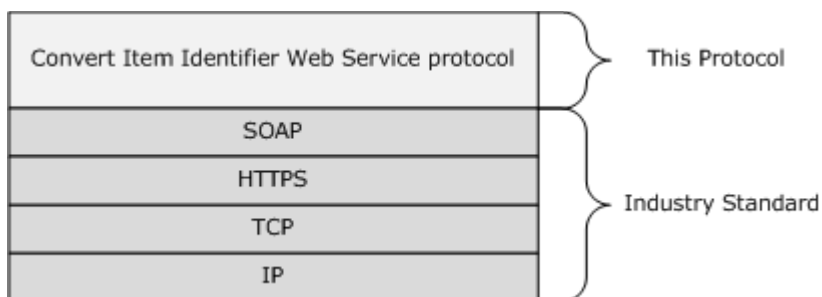


Figure 2: Convert Item Identifier Web Service protocol HTTPS stack

1.5 Prerequisites/Preconditions

None.

1.6 Applicability Statement

The Convert Item Identifier Web Service protocol is applicable to clients that must obtain alternative identifiers to an item that is stored on the server, and then use those identifiers to utilize other protocols or application programming interfaces to access the stored item.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses SOAP 1.1, as specified in section [2.1](#).
- **Protocol Versions:** This protocol specifies only one **WSDL port type** version.
- **Security and Authentication Methods:** This protocol relies on the Web server that is hosting it to perform authentication.
- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are specified in section [3.1.4](#).

Capability Negotiation: None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

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

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema** as defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **Web Services Description Language (WSDL)** as defined in [\[WSDL\]](#).

2.2.1 Namespaces

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

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

2.2.2 Simple Types

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

2.2.3 Complex Types

This specification does not define any common XML schema Complex Type definitions.

2.2.4 Elements

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

2.2.5 Attributes

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

2.2.6 Groups

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

2.2.7 Attribute Groups

This specification does not define any common XML schema Attribute Group definitions.

2.2.8 Message Syntax

This specification does not define any common XML schema Message Syntax definitions.

3 Protocol Details

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

3.1 ExchangeServicePortType Server Details

The Convert Item Identifier Web Service protocol defines a single port type with one operation.

Operation	Description
ConvertId	Converts an item identifier into a different identifier format that can be used to refer to the item. The ConvertId operation is defined in section 3.1.4.1 .

3.1.1 Server Abstract Data Model

The Convert Item Identifier Web Service protocol is a stateless protocol.

3.1.2 Server Timers

None.

3.1.3 Server Initialization

None.

3.1.4 Server Message Processing Events and Sequencing

This protocol includes the operation that is listed in the following table.

Operation	Description
ConvertId	Converts the supplied item identifier into a different format. This operation is defined in section 3.1.4.1 .

3.1.4.1 ConvertId

The **ConvertId** operation converts the item identifier supplied by the client into a different identifier format.

```
<wsdl:operation name="ConvertId">
  <wsdl:input message="tns:ConvertIdSoapIn"/>
  <wsdl:output message="tns:ConvertIdSoapOut"/>
</wsdl:operation>
```

Request

Message Format	Description
tns:ConvertIdSoapIn	Specifies the SOAP message that requests the server time zone.

Response

Message Format	Description
tns:ConvertIdSoapOut	Specifies the SOAP message that is returned by the server in response.

3.1.4.1.1 ConvertId Simple Types

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

3.1.4.1.1.1 t:IdFormatType Simple Type

The **IdFormatType** simple type specifies the item identifier format in both the client request and for each returned identifier.

```
<xs:simpleType name="IdFormatType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="EwsLegacyId"
    />
    <xs:enumeration
      value="EwsId"
    />
    <xs:enumeration
      value="EntryId"
    />
    <xs:enumeration
      value="HexEntryId"
    />
    <xs:enumeration
      value="StoreId"
    />
    <xs:enumeration
      value="OwaId"
    />
  </xs:restriction>
</xs:simpleType>
```

Enumeration

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

Value	Description
EwsLegacyId	Specifies that the identifier is in the format that is used by the legacy version of the protocol.
EwsId	Specifies that the identifier is in the format that is used by the current version of the protocol.
EntryId	Specifies that the identifier is in the format that can be used with the PidTagEntryId , as specified in [MS-OXPROPS] section 2.762.

Value	Description
HexEntryId	Specifies that the identifier is a hexadecimal-encoded representation of the format that can be used with the PidTagEntryId, as specified in [MS-OXPROPS] section 2.762
StoreId	Specifies that the identifier is in a format that is recognized only by the server.
OwaId	Specifies that the identifier is in a format that is used by the Web-based client capability of the server, if one exists. <1>

3.1.4.1.2 ConvertId Complex Types

The following XML schema complex types are specific to this operation.

3.1.4.1.2.1 m:ConvertIdResponseMessageType Complex Type

The **ConvertIdResponseMessageType** complex type specifies the status and result of a **ConvertId** request (section [3.1.4.1](#)). The **ConvertIdResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.52.

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

Child Elements

Element	Type	Description
AlternateId	t:AlternateIdBaseType	Specifies a converted identifier in the response.

3.1.4.1.2.2 m:ConvertIdResponseType Complex Type

The **ConvertIdResponseType** complex type specifies the contents of a response to a **ConvertId** request (section [3.1.4.1](#)). The **ConvertIdResponseType** complex type extends the **BaseResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.15.

```
<xs:complexType name="ConvertIdResponseType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
    >

```

```

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

```

3.1.4.1.2.3 m:ConvertIdType Complex Type

The **ConvertIdType** complex type specifies the contents of a request to a **ConvertId** request (section 3.1.4.1). The **ConvertIdType** complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.14.

```

<xs:complexType name="ConvertIdType">
  <xs:complexContent>
    <xs:extension
      base="BaseRequestType"
    >
      <xs:sequence>
        <xs:element name="SourceIds"
          type="t:NonEmptyArrayOfAlternateIdsType"
        />
      </xs:sequence>
      <xs:attribute name="DestinationFormat"
        type="IdFormatType"
        use="required"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Child Elements

Element	Type
SourceIds	t:NonEmptyArrayOfAlternateIdsType

Attributes

Name	Type
DestinationFormat	IdFormatType

3.1.4.1.2.4 t:AlternateIdBaseType Complex Type

The **AlternateIdBaseType** complex type specifies the base container type for the attributes that specify information about the returned item identifier. **AlternateIdBaseType** does not extend any other complex type.

```

<xs:complexType name="AlternateIdBaseType"
  abstract="true"
>
  <xs:attribute name="Format"
    type="IdFormatType"
    use="required"
  />

```

```

    />
</xs:complexType>

```

Attributes

Name	Type
Format	IdFormatType

3.1.4.1.2.5 t:AlternateIdType Complex Type

The **AlternateIdType** complex type specifies the information that is provided with a returned **mailbox** folder or mailbox item identifier. The **AlternateIdType** complex type extends the **AlternateIdBaseType** complex type (section [3.1.4.1.2.4](#)).

```

<xs:complexType name="AlternateIdType">
  <xs:complexContent>
    <xs:extension
      base="t:AlternateIdBaseType"
    >
      <xs:attribute name="Id"
        type="xs:string"
        use="required"
      />
      <xs:attribute name="Mailbox"
        type="t:NonEmptyStringType"
        use="required"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Attributes

Name	Type
Id	xs:string
Mailbox	t:NonEmptyStringType

3.1.4.1.2.6 t:AlternatePublicFolderIdType Complex Type

The **AlternatePublicFolderIdType** complex type specifies the information that is provided with a returned **public folder** item identifier. The **AlternatePublicFolderIdType** complex type extends the **AlternateIdBaseType** complex type (section [3.1.4.1.2.4](#)).

```

<xs:complexType name="AlternatePublicFolderIdType">
  <xs:complexContent>
    <xs:extension
      base="t:AlternateIdBaseType"
    >
      <xs:attribute name="FolderId"

```

```

        type="xs:string"
        use="required"
    />
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

Attributes

Name	Type
FolderId	xs:string

3.1.4.1.2.7 t:AlternatePublicFolderItemIdType Complex Type

The **AlternatePublicFolderItemIdType** complex type specifies the information that is provided with a returned item that is located in a public folder. The **AlternatePublicFolderItemIdType** complex type extends the **AlternatePublicFolderIdType** complex type (section [3.1.4.1.2.6](#)).

```

<xs:complexType name="AlternatePublicFolderItemIdType">
  <xs:complexContent>
    <xs:extension
      base="t:AlternatePublicFolderIdType"
    >
      <xs:attribute name="ItemId"
        type="xs:string"
        use="required"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Attributes

Name	Type
ItemId	xs:string

3.1.4.1.2.8 t:NonEmptyArrayOfAlternateIdsType Complex Type

The **NonEmptyArrayOfAlternateIdsType** complex type specifies a container for one or more item identifiers. Each individual identifier MUST be an **AlternateIdType** (section [3.1.4.1.2.5](#)), **AlternatePublicFolderIdType** (section [3.1.4.1.2.6](#)), or **AlternatePublicFolderItemIdType** (section [3.1.4.1.2.7](#)) complex type. The **NonEmptyArrayOfAlternateIdsType** complex type does not extend any other complex type.

```

<xs:complexType name="NonEmptyArrayOfAlternateIdsType">
  <xs:choice
    maxOccurs="unbounded"
  >
    <xs:element name="AlternateId"

```

```

        type="t:AlternateIdType"
      />
    <xs:element name="AlternatePublicFolderId"
      type="t:AlternatePublicFolderIdType"
    />
    <xs:element name="AlternatePublicFolderItemId"
      type="t:AlternatePublicFolderItemIdType"
    />
  </xs:choice>
</xs:complexType>

```

Child Elements

Element	Type
AlternateId	t:AlternateIdType
AlternatePublicFolderId	t:AlternatePublicFolderIdType
AlternatePublicFolderItemId	t:AlternatePublicFolderItemIdType

3.1.4.1.3 ConvertId Elements

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

3.1.4.1.3.1 ConvertId Element

The <ConvertId> element defines a request to convert a supplied list of source item identifiers into the requested destination format.

```

<xs:element name="ConvertId"
  type="m:ConvertIdType"
/>

```

3.1.4.1.3.2 ConvertIdResponse Element

The <ConvertIdResponse> element specifies a response from the server, and contains the alternate item identifiers for the supplied items in the requested format.

```

<xs:element name="ConvertIdResponse"
  type="m:ConvertIdResponseType"
/>

```

3.1.4.1.4 ConvertID Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.1.4.1 tns:ConvertIdSoapIn

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

Part Name	Element/Type	Description
request	tns:ConvertId	Specifies the request.
RequestVersion	t:RequestServerVersion	Specifies the schema version for the request.

3.1.4.1.4.2 tns:ConvertIdSoapOut

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

Part Name	Element/Type	Description
ConvertIdResult	tns:ConvertIdResponse	Specifies the response from the server.
ServerVersion	t:ServerVersionInfo	Specifies the server version for the response.

3.1.5 Server Timer Events

None.

3.1.6 Server Other Local Events

None.

3.2 Client Details

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

3.2.1 Client Abstract Data Model

None.

3.2.2 Client Timers

None.

3.2.3 Client Initialization

None.

3.2.4 Client Message Processing Events and Sequencing

None.

3.2.5 Client Timer Events

None.

3.2.6 Client Other Local Events

None.

4 Protocol Examples

None.

5 Security

5.1 Security Considerations for Implementers

The Convert Item Identifier Web service protocol does not use any additional security mechanisms.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

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

File name	Description	Section
MS-OXWSCVTID.wsdl	Contains the WSDL for the implementation of this protocol.	6.1
MS-OXWSCVTID-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	6.2
MS-OXWSCVTID-types.xsd	Contains the XML schema type definitions that are used in this protocol.	6.3

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

6.1 WSDL

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

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

File name	Defining specification
MS-OXWSCVTID-messages.xsd	[MS-OXWSCVTID] section 6.2.
MS-OXWSCVTID-types.xsd	[MS-OXWSCVTID] section 6.3

```
<?xml version="1.0" encoding="utf-8"?>

<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
<wsdl:types>
<xs:schema id="messages" elementFormDefault="qualified" version="Exchange2010"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
<xs:include schemaLocation="MS-OXWSCVTID-messages.xsd"/>
</xs:schema>
<xs:schema id="types" elementFormDefault="qualified" version="Exchange2010"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:include schemaLocation="MS-OXWSCVTID-types.xsd"/>
</xs:schema>
```

```

</wsdl:types>
<wsdl:message name="ConvertIdSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="request" element="tns:ConvertId"/>
<wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="ConvertIdSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:part name="ConvertIdResult" element="tns:ConvertIdResponse"/>
<wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:portType name="ExchangeServicePortType">
<wsdl:operation name="ConvertId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<wsdl:input message="tns:ConvertIdSoapIn"/>
<wsdl:output message="tns:ConvertIdSoapOut"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
<soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
<wsdl:operation name="ConvertId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
<soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ConvertId"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
<wsdl:input>
<soap:header message="tns:ConvertIdSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
<soap:body parts="request" use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
</wsdl:input>
<wsdl:output>
<soap:body parts="ConvertIdResult" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
<soap:header message="tns:ConvertIdSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

6.2 Messages Schema

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

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

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

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
```

```

xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
elementFormDefault="qualified" version="Exchange2010" id="messages">
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
schemaLocation="MS-OXWSCVTID-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:complexType name="ConvertIdResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexContent>
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element name="AlternateId" type="t:AlternateIdBaseType"
minOccurs="0" maxOccurs="1"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ConvertIdResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexContent>
      <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ConvertIdType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexContent>
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="SourceIds"
type="t:NonEmptyArrayOfAlternateIdsType" minOccurs="1" maxOccurs="1"/>
        </xs:sequence>
        <xs:attribute name="DestinationFormat" type="t:IdFormatType"
use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ConvertId" type="m:ConvertIdType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
  <xs:element name="ConvertIdResponse" type="m:ConvertIdResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</xs:schema>

```

6.3 Types Schema

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

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

File name	Defining specification
MS-OXWSCDATA-types.xsd	[MS-OXWSCDATA] section 6.2

```

<?xml version="1.0" encoding="utf-8"?>

<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified" version="Exchange2010" id="types">
<xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
<xs:include schemaLocation="MS-OXWSCDATA-types.xsd"/>
<xs:complexType name="AlternateIdBaseType" abstract="true"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:attribute name="Format" type="t:IdFormatType" use="required"/>
</xs:complexType>
<xs:complexType name="AlternateIdType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
</xs:annotation>
<xs:complexContent>
<xs:extension base="t:AlternateIdBaseType">
<xs:attribute name="Id" type="xs:string" use="required"/>
<xs:attribute name="Mailbox" type="t:NonEmptyStringType" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="AlternatePublicFolderIdType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:complexContent>
<xs:extension base="t:AlternateIdBaseType">
<xs:attribute name="FolderId" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="AlternatePublicFolderItemIdType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:complexContent>
<xs:extension base="t:AlternatePublicFolderIdType">
<xs:attribute name="ItemId" type="xs:string" use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:simpleType name="IdFormatType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:restriction base="xs:string">
<xs:enumeration value="EwsLegacyId"/>
<xs:enumeration value="EwsId"/>
<xs:enumeration value="EntryId"/>
<xs:enumeration value="HexEntryId"/>
<xs:enumeration value="StoreId"/>
<xs:enumeration value="OwaId"/>
</xs:restriction>
</xs:simpleType>
<xs:complexType name="NonEmptyArrayOfAlternateIdsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:choice minOccurs="1" maxOccurs="unbounded">
<xs:element name="AlternateId" type="t:AlternateIdType"/>
<xs:element name="AlternatePublicFolderId" type="t:AlternatePublicFolderIdType"/>
<xs:element name="AlternatePublicFolderItemId" type="t:AlternatePublicFolderItemIdType"/>
</xs:choice>
</xs:complexType>
</xs:schema>

```

7 Appendix A: Product Behavior

The information in this specification is applicable to the following product versions. References to product versions include released service packs.

- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2007

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.

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 3.1.4.1.1.1](#): Exchange 2007 includes the Web-based client Microsoft Office Outlook Web Access and Exchange 2010 includes the Web-based client Microsoft Office Outlook Web App. Identifiers in the OwaId format can be used to retrieve items

8 Change Tracking

This section identifies changes made to [MS-OXWSCVTID] protocol documentation between November 2009 and February 2010 releases. Changes are classed as major, minor, or editorial.

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.
- A protocol is deprecated.
- The removal of a document from the documentation set.
- Changes made for template compliance.

Minor changes do not affect protocol interoperability or implementation. Examples are updates to fix technical accuracy or ambiguity at the sentence, paragraph, or table level.

Editorial changes apply to grammatical, formatting, and style issues.

No changes means that the document is identical to its last release.

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

- New content added.
- Content update.
- 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 always have the revision type "Editorially updated."

Some important terms used in revision 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.

Changes are listed in the following table. If you need further information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Revision Type
1.1 Glossary	Added the terms "mailbox", "public folder", and "WSDL port type".	N	Content update.

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