

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

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Revision Summary

Date	Revision History	Revision Class	Comments
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1 Introduction

The Convert Item Identifier Web Service protocol enables a client to convert among the different identifier formats that can be used to locate items 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)
SOAP body
SOAP fault
SOAP message
Web Services Description Language (WSDL)
WSDL message
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.

[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/>.

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

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

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 stored by the server. Those identifiers can then be used to access the stored items using other protocols and programmatic interfaces available on the server.

1.4 Relationship to Other Protocols

The Convert Item Identifier Web Service protocol uses SOAP over **HTTP** as shown in the following layer diagram:

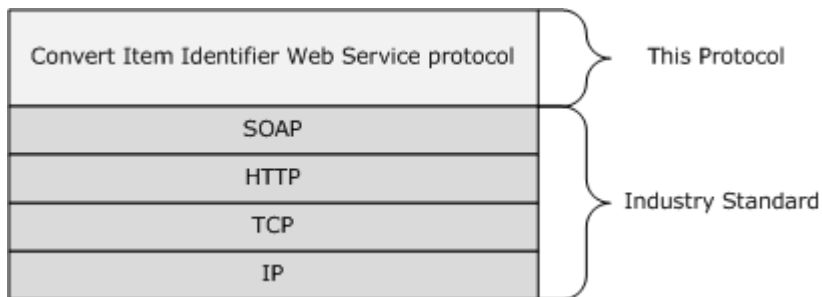


Figure 1: Convert Item Identifier Web Service protocol HTTP stack.

The Convert Item Identifier Web Service protocol uses SOAP over **HTTPS** as shown in the following layer diagram:

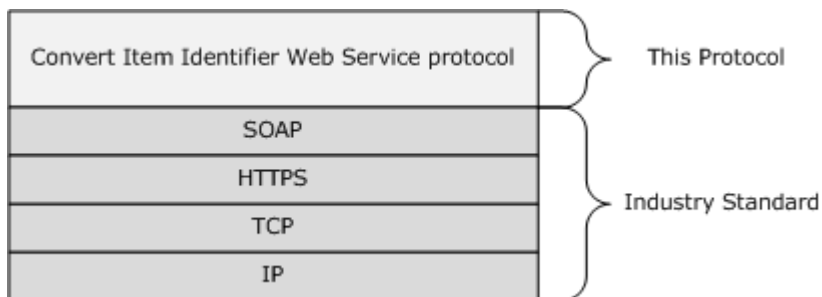


Figure 2: Convert Item Identifier Web Service protocol HTTPS stack.

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 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 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 1 operation.

```
<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>
```

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 listed in the following table.

Operation	Description
ConvertId	Convert the supplied item identifier into a different format.

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>
```

</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.

Type	Description
IdFormatType	Specifies the identifier format requested by the client.

3.1.4.1.1.1 t:IdFormatType Simple Type

The [IdFormatType](#) 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 the identifier is in the format used by the legacy version of the protocol.
EwsId	Specifies the identifier is in the format used by the current version of the protocol.
EntryId	Specifies the identifier is in the format which can be used with the PidTagEntryId as specified in [MS-OXPROPS] section 2.764.
HexEntryId	Specifies the identifier is a hexadecimal-encoded representation of the format which can be used with the PidTagEntryId as specified in [MS-OXPROPS] section 2.764
StoreId	Specifies the identifier is in a format that is recognized only by the server.
OwaId	Specifies 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.

Type	Description
m:ConvertIdResponseMessageType	Represents a response to a Convert Item Identifier operation.
m:ConvertIdResponseType	Represents a response to a Convert Item Identifier operation
m:ConvertIdType	Represents the source item identifiers and destination format that the client requests the server convert.
t:AlternateIdBaseType	Represents the base type describing an alternate item identifier.
t:AlternateIdType	Represents an item identifier for a mailbox folder or item.
t:AlternatePublicFolderIdType	Represents an alternate item identifier for an item contained in a public folder.
t:AlternatePublicFolderItemIdType	Represents an alternate item identifier for a public folder.
t:NonEmptyArrayOfAlternateIdsType	Represents a container for one or more alternate item identifiers

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 2.2.3.49.

```
<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 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 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 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 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 one of [t:AlternateIdType](#) (section [3.1.4.1.2.5](#)), [t:AlternatePublicFolderIdType](#) (section [3.1.4.1.2.6](#)), or [t:AlternatePublicFolderItemIdType](#) (section [3.1.4.1.2.7](#)). 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.

Operation	Description
tns:ConvertId	Defines a request to convert one or more item identifiers.
tns:ConvertIdResponse	Defines a response to a convert item identifier request.

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 [tns: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.

Messages	Description
tns:ConvertIdSoapIn	The request that converts an item identifier.
tns:ConvertIdSoapOut	The response containing the alternative identifier for the item.

3.1.4.1.4.1 tns:ConvertIdSoapIn

The [ConvertIdSoapIn](#) message contains two parts.

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

3.1.4.1.4.2 tns:ConvertIdSoapOut

The [tns:ConvertIdSoapOut](#) message contains two parts.

Part Name	Element/Type	Description
ConvertIdResult	tns:ConvertIdResponse	This part specifies the response from the server.
ServerVersion	t:ServerVersionInfo	This part 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.

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

These files **MUST** 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 **MUST** be placed in the common folder 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 **MUST** be present in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

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

```
<?xml version="1.0" encoding="utf-8"?>
<!-- edited with XMLSpy v2009 sp1 (http://www.altova.com) by Thomas L Randolph (private) -->
<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 MUST be in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

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

```

<?xml version="1.0" encoding="utf-8"?>
<!-- edited with XMLSpy v2009 sp1 (http://www.altova.com) by Thomas L Randolph (private) -->
<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 MUST be in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

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

```

<?xml version="1.0" encoding="utf-8"?>
<!-- edited with XMLSpy v2009 sp1 (http://www.altova.com) by Thomas L Randolph (private) -->
<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

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](#): Microsoft Exchange 2007 and Microsoft Exchange 2010 include a Web-based client capability named Microsoft Outlook Web Access. 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 July 2009 and November 2009 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 glossary term "SOAP message".	N	Content update.
2.2 Common Message Syntax	52635 Added links to normative references [XMLSCHEMA1], [XMLSCHEMA2], and [WSDL].	N	Content update.
2.2.1 Namespaces	52635 Added links to normative references [XMLNS], [SOAP1.1], [XMLSCHEMA1], and [WSDL].	N	Content update.

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