[MS-OXWSCEXT]:
Client Extension Web Service Protocol Specification

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1 Introduction

The Client Extension Web Service Protocol enables clients to use a **Web service** to retrieve and disable client extensions.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

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

endpoint
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP header
Web service
Web Services Description Language (WSDL)
WSDL message
WSDL operation
WSDL port type
XML namespace
XML namespace prefix
XML schema

The following terms are specific to this document:

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

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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

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

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., 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] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, http://www.w3.org/TR/2009/REC-xml-names-20091208/

[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

[MS-GLOS] Microsoft Corporation, "Windows Protocols Master Glossary".

[MS-OWEMXML] Microsoft Corporation, "Office Web Extensibility Manifest Format Specification".

[MS-OWEXML] Microsoft Corporation, "Office Web Extensibility Extensions to Office Open XML Structure Specification".

[MS-OXDSCLI] Microsoft Corporation, "Autodiscover Publishing and Lookup Protocol Specification".

[MS-OXGLOS] Microsoft Corporation, "Exchange Server Protocols Master Glossary".

[MS-OXWSADISC] Microsoft Corporation, "Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol Specification".

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

1.3 Overview

This protocol enables clients to use a Web service to manage installed client extensions. It provides operations to retrieve and disable client extensions.

New client extensions cannot be created or added.

1.4 Relationship to Other Protocols

This protocol is used by clients that implement support for Office Web Extensions, as described in [MS-OWEXML] and the Office Web Extensibility Manifest Format, as described in [MS-OWEMXML].

A client that implements this protocol can use the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], to identify the target **endpoint (4)** to use for each operation.

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

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

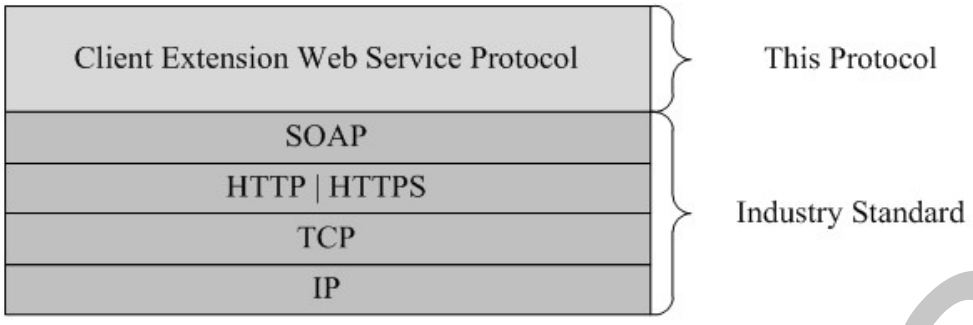

Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

The endpoint (4) URL that is returned by either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], is required to form the HTTP request to the web server that hosts this protocol. The operations that this protocol defines cannot be accessed unless the correct endpoint (4) is identified in the HTTP web requests that target this protocol.

1.6 Applicability Statement

This protocol is applicable to environments that use Web services to implement client extensions for a user's mailbox. This protocol is applicable to all SOAP-based clients, as described in [SOAP1.1].

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports**: This protocol uses SOAP 1.1, as described in section 2.1.
- **Protocol Versions**: This protocol describes only one **WSDL port type** version. The **WSDL** version of the request is identified by using the **t:RequestServerVersion** element, as described in [MS-OXWSCDATA] section 2.2.5.9, and the version of the server responding to the request is identified by using the **t:ServerVersionInfo** element, as described in [MS-OXWSCDATA] section 2.2.5.10.
- **Security and Authentication Methods**: This protocol relies on the web server that is hosting it to perform authentication.
- **Capability Negotiation**: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

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1.9 Standards Assignments

None.

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2 Messages

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

2.1 Transport

The SOAP version used for this protocol is SOAP 1.1, as specified in [SOAP1.1].

This protocol relies on the web server that hosts the application to perform authentication. The protocol SHOULD use secure communications by means of HTTPS, as specified in [RFC2818].

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 specified in [XMLSCHEMA1] and [XMLSCHEMA2], and Web Services Description Language (WSDL), as specified in [WSDL].

2.2.1 Namespaces

This specification defines and references various **XML namespaces** 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	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
t	http://schemas.microsoft.com/exchange/services/2006/types	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsi	http://ws-i.org/schemas/conformanceClaim/	
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

2.2.3 Elements

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

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2.2.4 Complex Types

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

Complex type	Description
NonEmptyArrayOfClientAccessTokensType	The **NonEmptyArrayOfClientAccessTokensType** complex type specifies an array of tokens to return in response.

2.2.4.1 NonEmptyArrayOfClientAccessTokensType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **NonEmptyArrayOfClientAccessTokensType** complex type specifies an array of tokens to return in response.

```
<xs:complexType name="NonEmptyArrayOfClientAccessTokensType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="Token"
type="t:ClientAccessTokenType"/>
  </xs:sequence>
</xs:complexType>
```

Token: Contains an identity token that is used to identify the client when making Exchange Web Services (EWS) requests to the Exchange server.

2.2.5 Simple Types

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

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3 Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be empty, null, or not present but the behavior of the protocol as specified restricts the same elements to being non-empty, not null and present.

3.1 ExchangeServicePortType Server Details

This protocol defines a single WSDL port type.

3.1.1 Abstract Data Model

None.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of operations as defined by this specification:

Operation	Description
DisableClientExtension	The **DisableClientExtension** operation disables a client extension.
GetClientAccessToken	The **GetClientAccessToken** operation retrieves a client access token.
GetClientExtensionManifests	The **GetClientExtensionManifests** operation retrieves the client extension manifests.
GetPopularClientExtensions	

3.1.4.1 DisableClientExtension

The **DisableClientExtension** operation disables a client extension.

```
<wsdl:operation name="DisableClientExtension" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:DisableClientExtensionSoapIn"/>
  <wsdl:output message="m:DisableClientExtensionSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **DisableClientExtension** operation

```
<wsdl:operation name="DisableClientExtension" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

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```
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DisableClientExtensi
on" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:DisableClientExtensionSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="DisableClientExtensionResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:DisableClientExtensionSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

3.1.4.1.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
DisableClientExtensionSoapIn	Specifies the request to disable a client extension.
DisableClientExtensionSoapOut	Specifies the response to the **DisableClientExtensionSoapIn** request.

3.1.4.1.1.1 DisableClientExtensionSoapIn

The **DisableClientExtensionSoapIn** WSDL message specifies the request to disable a client extension.

The following is the **DisableClientExtension** WSDL message specification.

```
<wsdl:message name="DisableClientExtensionSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:DisableClientExtension"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	m:DisableClientExtension (section 3.1.4.1.2.1)	Specifies the **SOAP body** of the request containing the information that is required to query for availability.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a **SOAP header** that identifies the schema version for the **ArchiveItem** operation request.<1>

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3.1.4.1.1.2 DisableClientExtensionSoapOut

The **DisableClientExtensionSoapOut** WSDL message specifies the response to the **DisableClientExtensionSoapIn** request.

The following is the **DisableClientExtension** WSDL message specification.

```
<wsdl:message name="DisableClientExtensionSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="DisableClientExtensionResult" element="m:DisableClientExtensionResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
DisableClientExtensionResult	m:DisableClientExtensionResponse (section 3.1.4.1.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.1.2 Elements

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

Element	Description
DisableClientExtension	The input data for the **DisableClientExtension** **WSDL operation**.
DisableClientExtensionResponse	The result data for the **DisableClientExtension** WSDL operation.

3.1.4.1.2.1 DisableClientExtension

The input data for the **DisableClientExtension** WSDL operation.

```
<xs:element name="DisableClientExtension" type="m:DisableClientExtensionType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.1.2.2 DisableClientExtensionResponse

The result data for the **DisableClientExtension** WSDL operation.

```
<xs:element name="DisableClientExtensionResponse" type="m:DisableClientExtensionResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

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3.1.4.1.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
DisableClientExtensionType	Specifies a request to disable a client extension.
DisableClientExtensionResponseType	Specifies the response for a **DisableClientExtension** operation.

3.1.4.1.3.1 DisableClientExtensionType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **DisableClientExtensionType** complex type specifies a request to disable a client extension.

```
<xs:complexType name="DisableClientExtensionType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="ID" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="DisableReason"
type="t:DisableReasonType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ID: Represents the identifier of the client extension.

DisableReason: Specifies the reason the client extension is to be disabled.

3.1.4.1.3.2 DisableClientExtensionResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **DisableClientExtensionResponseType** complex type specifies the response for a **DisableClientExtension** operation.

```
<xs:complexType name="DisableClientExtensionResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.1.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

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Simple type	Description
DisableReasonType	Specifies the reason that the client extension is to be disabled.

3.1.4.1.4.1 DisableReasonType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **DisableReasonType** simple type specifies the reason that the client extension is to be disabled.

```
<xs:simpleType name="DisableReasonType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoReason"/>
    <xs:enumeration value="OutlookClientPerformance"/>
    <xs:enumeration value="OWAClientPerformance"/>
    <xs:enumeration value="MobileClientPerformance"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **DisableReasonType**.

Value	Meaning
NoReason	No reason given.
OutlookClientPerformance	To improve email client performance.
OWAClientPerformance	To improve Web app client performance.
MobileClientPerformance	To improve mobile client performance.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 GetClientAccessToken

The **GetClientAccessToken** operation retrieves a client access token.

```
<wsdl:operation name="GetClientAccessToken" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetClientAccessTokenSoapIn"/>
  <wsdl:output message="m:GetClientAccessTokenSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **GetClientAccessToken** operation.

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```
<wsdl:operation name="GetClientAccessToken" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetClientAccessToken
" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:GetClientAccessTokenSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="GetClientAccessTokenResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:GetClientAccessTokenSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

3.1.4.2.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetClientAccessTokenSoapIn	Specifies the request to retrieve a client access token.
GetClientAccessTokenSoapOut	Specifies the response to the **GetClientAccessToken** request.

3.1.4.2.1.1 GetClientAccessTokenSoapIn

The **GetClientAccessTokenSoapIn** WSDL message specifies the request to retrieve a client access token.

The following is the **GetClientAccessToken** WSDL message specification.

```
<wsdl:message name="GetClientAccessTokenSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:GetClientAccessToken"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	m:GetClientAccessToken (section 3.1.4.2.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the **GetClientAccessToken** operation request.<2>

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3.1.4.2.1.2 GetClientAccessTokenSoapOut

The **GetClientAccessTokenSoapOut** WSDL message specifies the response to the **GetClientAccessToken** request.

The following is the **GetClientAccessToken** WSDL message specification.

```
<wsdl:message name="GetClientAccessTokenSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetClientAccessTokenResult" element="m:GetClientAccessTokenResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
GetClientAccessTokenResult	m:GetClientAccessTokenResponse (section 3.1.4.2.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.2.2 Elements

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

Element	Description
GetClientAccessToken	The input data for the **GetClientAccessToken** WSDL operation.
GetClientAccessTokenResponse	The result data for the **GetClientAccessToken** WSDL operation.

3.1.4.2.2.1 GetClientAccessToken

The input data for the **GetClientAccessToken** WSDL operation.

```
<xs:element name="GetClientAccessToken" type="m:GetClientAccessTokenType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.2.2.2 GetClientAccessTokenResponse

The result data for the **GetClientAccessToken** WSDL operation.

```
<xs:element name="GetClientAccessTokenResponse" type="m:GetClientAccessTokenResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

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3.1.4.2.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
GetClientAccessTokenType	Specifies a request to retrieve a client access token.
NonEmptyArrayOfClientAccessTokenRequestsType	Specifies an array of client access token requests.
ClientAccessTokenRequestType	Specifies a client access token request.
GetClientAccessTokenResponseType	Specifies the response for a **GetClientAccesToken** operation.
BaseResponseMessageType	Specifies a base response message.
ArrayOfResponseMessagesType	Specifies an array of response messages to be returned.
GetClientAccessTokenResponseMessageType	Specifies a response message for a **GetClientAccessToken** operation.
ClientAccessTokenType	Specifies a client access token

3.1.4.2.3.1 GetClientAccessTokenType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetClientAccessTokenType** complex type specifies a request to retrieve a client access token.

```
<xs:complexType name="GetClientAccessTokenType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="TokenRequests"
type="t:NonEmptyArrayOfClientAccessTokenRequestsType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

TokenRequests: Specifies an array of client access token requests.

3.1.4.2.3.2 NonEmptyArrayOfClientAccessTokenRequestsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **NonEmptyArrayOfClientAccessTokenRequestsType** complex type represents an array of client access token requests.

```
<xs:complexType name="NonEmptyArrayOfClientAccessTokenRequestsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="TokenRequest"
type="t:ClientAccessTokenRequestType"/>
```

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

TokenRequest: Represents a single token request.

3.1.4.2.3.3 ClientAccessTokenRequestType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ClientAccessTokenRequestType** complex type identifies the request type for a client access token.

```
<xs:complexType name="ClientAccessTokenRequestType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Id" type="xs:string"/>
    <xs:element name="TokenType" type="t:ClientAccessTokenTypeType"/>
  </xs:sequence>
</xs:complexType>
```

Id: Contains the identifier of the extension.

TokenType: Identifies the type of token that will be returned in the response.

3.1.4.2.3.4 GetClientAccessTokenResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetClientAccessTokenResponseType** complex type specifies the response for a **GetClientAccesToken** operation.

```
<xs:complexType name="GetClientAccessTokenResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.2.3.5 BaseResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **BaseResponseMessageType** complex type specifies a base response message.

```
<xs:complexType name="BaseResponseMessageType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="ResponseMessages" type="m:ArrayOfResponseMessagesType"/>
  </xs:sequence>
</xs:complexType>
```

ResponseMessages:

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3.1.4.2.3.6 ArrayOfResponseMessagesType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

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

```
<xs:complexType name="ArrayOfResponseMessagesType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:choice maxOccurs="unbounded">
    <xs:element name="GetClientAccessTokenResponseMessage"
type="m:GetClientAccessTokenResponseMessageType"/>
  </xs:choice>
</xs:complexType>
```

GetClientAccessTokenResponseMessage: Specifies the response message for a **GetClientAccessToken** operation.

3.1.4.2.3.7 GetClientAccessTokenResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetClientAccessTokenResponseMessageType** complex type specifies a response message for a **GetClientAccessToken** operation.

```
<xs:complexType name="GetClientAccessTokenResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="Token" type="t:ClientAccessTokenType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Token: Represents the client access token.

3.1.4.2.3.8 ClientAccessTokenType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ClientAccessTokenType** specifies a client access token.

```
<xs:complexType name="ClientAccessTokenType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Id" type="xs:string"/>
    <xs:element name="TokenType" type="t:ClientAccessTokenTypeType"/>
    <xs:element name="TokenValue" type="xs:string"/>
    <xs:element name="TTL" type="xs:integer"/>
  </xs:sequence>
</xs:complexType>
```

Id: Represents a client access token identifier.

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TokenType: Represents the token type.

TokenValue: Represents the token value.

TTL: Represents the time to live for the token.

3.1.4.2.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

Simple type	Description
ClientAccessTokenTypeType	Specifies the type of a client access token.

3.1.4.2.4.1 ClientAccessTokenTypeType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ClientAccessTokenTypeType** simple type specifies the type of a client access token.

```
<xs:simpleType name="ClientAccessTokenTypeType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="CallerIdentity"/>
    <xs:enumeration value="ExtensionCallback"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **ClientAccessTokenTypeType**.

Value	Meaning
CallerIdentity	Indicates a caller identity.
ExtensionCallback	Indicates an extension callback.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 GetClientExtensionManifests

The **GetClientExtensionManifests** operation retrieves the client extension manifests.

```
<wsdl:operation name="GetClientExtensionManifests"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```


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```
  <wsdl:input message="m:GetClientExtensionManifestsSoapIn"/>
  <wsdl:output message="m:GetClientExtensionManifestsSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **GetClientExtensionManifests** operation.

```
<wsdl:operation name="GetClientExtensionManifests"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetClientExtensionMa
nifests" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:GetClientExtensionManifestsSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="GetClientExtensionManifestsResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:GetClientExtensionManifestsSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

3.1.4.3.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetClientExtensionManifestsSoapIn	Specifies the request to retrieve client extension manifests.
GetClientExtensionManifestsSoapOut	Specifies the response to the **GetClientExtensionManifestsSoapIn** request.

3.1.4.3.1.1 GetClientExtensionManifestsSoapIn

The **GetClientExtensionManifestsSoapIn** WSDL message specifies the request to retrieve client extension manifests.

The following is the **GetClientExtensionManifests** WSDL message specification.

```
<wsdl:message name="GetClientExtensionManifestsSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:GetClientExtensionManifests"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

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Part name	Element/type	Description
request	m:GetClientExtensionManifests (section 3.1.4.3.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the **GetClientExtensionManifests** operation request.<3>

3.1.4.3.1.2 GetClientExtensionManifestsSoapOut

The **GetClientExtensionManifestsSoapOut** WSDL message specifies the response to the **GetClientExtensionManifestsSoapIn** request.

The following is the **GetClientExtensionManifests** WSDL message specification.

```
<wsdl:message name="GetClientExtensionManifestsSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetClientExtensionManifestsResult"
element="m:GetClientExtensionManifestsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
GetClientExtensionManifestsResult	m:GetClientExtensionManifestsResponse (section 3.1.4.3.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.3.2 Elements

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

Element	Description
GetClientExtensionManifests	The input data for the **GetClientExtensionManifests** WSDL operation.
GetClientExtensionManifestsResponse	The result data for the **GetClientExtensionManifests** WSDL operation.

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3.1.4.3.2.1 GetClientExtensionManifests

The input data for the **GetClientExtensionManifests** WSDL operation.

```
<xs:element name="GetClientExtensionManifests" type="m:GetClientExtensionManifestsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.3.2.2 GetClientExtensionManifestsResponse

The result data for the **GetClientExtensionManifests** WSDL operation.

```
<xs:element name="GetClientExtensionManifestsResponse"
type="m:GetClientExtensionManifestsResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.3.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type	Description
GetClientExtensionManifestsType	Specifies a request to retrieve client extension manifests.
GetClientExtensionManifestsResponseType	Specifies a response for the **GetClientExtensionManifests** operation.
ArrayOfClientExtensionManifestsType	Specifies an array of client extension manifests to be returned

3.1.4.3.3.1 GetClientExtensionManifestsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetClientExtensionManifestsType** complex type specifies a request to retrieve client extension manifests.

```
<xs:complexType name="GetClientExtensionManifestsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.3.3.2 GetClientExtensionManifestsResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetClientExtensionManifestsResponseType** complex type specifies a response for the **GetClientExtensionManifests** operation.

```
<xs:complexType name="GetClientExtensionManifestsResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

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```
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element maxOccurs="1" name="Manifests"
type="m:ArrayOfClientExtensionManifestsType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Manifests: Specifies the client extensions manifests.

3.1.4.3.3.3 ArrayOfClientExtensionManifestsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **ArrayOfClientExtensionManifestsType** complex type specifies an array of client extension manifests to be returned.

```
<xs:complexType name="ArrayOfClientExtensionManifestsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Manifest" type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

Manifest: Represents a single manifest.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 GetPopularClientExtensions

```
<wsdl:operation name="GetPopularClientExtensions"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetPopularClientExtensionsSoapIn"/>
  <wsdl:output message="m:GetPopularClientExtensionsSoapOut"/>
</wsdl:operation>
<wsdl:operation name="GetPopularClientExtensions"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

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```
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetPopularExtension"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:GetPopularClientExtensionsSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="GetPopularClientExtensionsResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:GetPopularClientExtensionsSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

3.1.4.4.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetPopularClientExtensionsSoapIn	
GetPopularClientExtensionsSoapOut	

3.1.4.4.1.1 GetPopularClientExtensionsSoapIn

The following is the **GetPopularClientExtensions** WSDL message specification.

```
<wsdl:message name="GetPopularClientExtensionsSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:GetPopularClientExtensions"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	m:GetPopularClientExtensions	
RequestVersion	t:RequestServerVersion	

3.1.4.4.1.2 GetPopularClientExtensionsSoapOut

The following is the **GetPopularClientExtensions** WSDL message specification.

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```
<wsdl:message name="GetPopularClientExtensionsSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetPopularClientExtensionsResult"
element="m:GetPopularClientExtensionsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
GetPopularClientExtensionsResult	m:GetPopularClientExtensionsResponse	
ServerVersion	t:ServerVersionInfo	

3.1.4.4.2 Elements

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

Element	Description
GetPopularClientExtensions	The input data for the **GetPopularClientExtensions** WSDL operation.
GetPopularClientExtensionsResponse	The result data for the **GetPopularClientExtensions** WSDL operation.

3.1.4.4.2.1 GetPopularClientExtensions

The input data for the **GetPopularClientExtensions** WSDL operation.

```
<xs:element name="GetPopularClientExtensions" type="m:GetPopularClientExtensionsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.4.2.2 GetPopularClientExtensionsResponse

The result data for the **GetPopularClientExtensions** WSDL operation.

```
<xs:element name="GetPopularClientExtensionsResponse"
type="m:GetPopularClientExtensionsResponseType" xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.4.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

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Complex type	Description
GetPopularClientExtensionsType	
GetPopularClientExtensionsResponseType	
ArrayOfPopularClientExtensionsType	
PopularClientExtensionType	

3.1.4.4.3.1 GetPopularClientExtensionsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

```
<xs:complexType name="GetPopularClientExtensionsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.4.3.2 GetPopularClientExtensionsResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

```
<xs:complexType name="GetPopularClientExtensionsResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element maxOccurs="1" name="Extensions"
type="m:ArrayOfPopularClientExtensionsType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Extensions:

3.1.4.4.3.3 ArrayOfPopularClientExtensionsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

```
<xs:complexType name="ArrayOfPopularClientExtensionsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Extension"
type="m:PopularClientExtensionType"/>
  </xs:sequence>
</xs:complexType>
```

Extension:

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3.1.4.4.3.4 PopularClientExtensionType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

```
<xs:complexType name="PopularClientExtensionType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Title" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Publisher" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IconUrl" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="MarketplaceUrl" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Title:

Publisher:

IconUrl:

MarketplaceUrl:

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

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4 Protocol Examples

The following code example shows a request to retrieve the URL for a client extension.

```
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
<soap:Header> <t:RequestServerVersion Version="Exchange2012"></t:RequestServerVersion>
</soap:Header>
  <soap:Body>
    <GetClientExtensionMarketplaceUrl
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    </GetClientExtensionMarketplaceUrl>
  </soap:Body>
</soap:Envelope>
```

The following code example shows the response.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="15" MinorVersion="0" MajorBuildNumber="401"
MinorBuildNumber="0" Version="Exchange2012"
xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"/>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <GetClientExtensionMarketplaceUrlResponse ResponseClass="Success"
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>

<ClientExtensionMarketplaceUrl>http://officepreviewredir.microsoft.com/r/rlidMktplcOWARedirec
t?app=28&amp;ver=15&amp;clientfullver=15.0.401.0&amp;LC=en-
US&amp;Scope=1&amp;ClientToken=01%2f21%2f2012+18%3a31%3a116ef8795322102e2ad43ccf79d6a25fed600
97649a10003c73c2aa0b5499d4926&amp;CallBackURL=https%3a%2f%2flocalhost%2fecp%2fExtension%2fins
tallFromURL.slab%3fexsvurl%3d1</ClientExtensionMarketplaceUrl>
    </GetClientExtensionMarketplaceUrlResponse>
  </s:Body>
</s:Envelope>
```

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5 Security

5.1 Security Considerations for Implementers

This protocol relies on the web server that hosts the application to perform authentication. The protocol SHOULD use secure communications by means of HTTPS, as defined in [RFC2818].

5.2 Index of Security Parameters

None.

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6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types/>
  <wsdl:message name="DisableClientExtensionSoapIn">
    <wsdl:part name="request" element="m:DisableClientExtension"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="DisableClientExtensionSoapOut">
    <wsdl:part name="DisableClientExtensionResult"
element="m:DisableClientExtensionResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetClientAccessTokenSoapIn">
    <wsdl:part name="request" element="m:GetClientAccessToken"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="GetClientAccessTokenSoapOut">
    <wsdl:part name="GetClientAccessTokenResult" element="m:GetClientAccessTokenResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetClientExtensionManifestsSoapIn">
    <wsdl:part name="request" element="m:GetClientExtensionManifests"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="GetClientExtensionManifestsSoapOut">
    <wsdl:part name="GetClientExtensionManifestsResult"
element="m:GetClientExtensionManifestsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetPopularClientExtensionsSoapIn">
    <wsdl:part name="request" element="m:GetPopularClientExtensions"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="GetPopularClientExtensionsSoapOut">
    <wsdl:part name="GetPopularClientExtensionsResult"
element="m:GetPopularClientExtensionsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="DisableClientExtension">
      <wsdl:input message="m:DisableClientExtensionSoapIn"/>
      <wsdl:output message="m:DisableClientExtensionSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetClientAccessToken">
      <wsdl:input message="m:GetClientAccessTokenSoapIn"/>
      <wsdl:output message="m:GetClientAccessTokenSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetClientExtensionManifests">
      <wsdl:input message="m:GetClientExtensionManifestsSoapIn"/>
      <wsdl:output message="m:GetClientExtensionManifestsSoapOut"/>
    </wsdl:operation>
```

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```
    <wsdl:operation name="GetPopularClientExtensions">
      <wsdl:input message="m:GetPopularClientExtensionsSoapIn"/>
      <wsdl:output message="m:GetPopularClientExtensionsSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="ExchangeServiceBinding" type="m:ExchangeServicePortType">
    <wsdl:documentation>
      <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-
i.org/schemas/conformanceClaim/"/>
    </wsdl:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="DisableClientExtension">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DisableClientExtensi
on"/>
      <wsdl:input>
        <soap:header message="m:DisableClientExtensionSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="DisableClientExtensionResult"/>
        <soap:header message="m:DisableClientExtensionSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetClientAccessToken">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetClientAccessToken
"/>
      <wsdl:input>
        <soap:header message="m:GetClientAccessTokenSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetClientAccessTokenResult"/>
        <soap:header message="m:GetClientAccessTokenSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetClientExtensionManifests">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetClientExtensionMa
nifests"/>
      <wsdl:input>
        <soap:header message="m:GetClientExtensionManifestsSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetClientExtensionManifestsResult"/>
        <soap:header message="m:GetClientExtensionManifestsSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetPopularClientExtensions">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetPopularExtension"
/>
```

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```
      <wsdl:input>
        <soap:header message="m:GetPopularClientExtensionsSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetPopularClientExtensionsResult"/>
        <soap:header message="m:GetPopularClientExtensionsSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>
```

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7 Appendix B: Full XML Schema

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

Schema name	Prefix	Section
http://schemas.microsoft.com/exchange/services/2006/messages	m	7.1
http://schemas.microsoft.com/exchange/services/2006/types	t	7.2

7.1 http://schemas.microsoft.com/exchange/services/2006/messages Schema

This section contains the full XML schema for messages.

```
<?xml version="1.0"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2012" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
  <xs:include schemaLocation="MS-OXWSCEXT-messages.xsd"/>
  <xs:complexType name="ArrayOfResponseMessagesType">
    <xs:choice maxOccurs="unbounded">
      <xs:element name="GetClientAccessTokenResponseMessage"
type="m:GetClientAccessTokenResponseMessageType"/>
    </xs:choice>
  </xs:complexType>
  <xs:complexType name="BaseResponseMessageType">
    <xs:sequence>
      <xs:element name="ResponseMessages" type="m:ArrayOfResponseMessagesType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfClientExtensionManifestsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Manifest"
type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="DisableClientExtensionType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="ID" type="xs:string"/>
          <xs:element minOccurs="1" maxOccurs="1" name="DisableReason"
type="t:DisableReasonType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="DisableClientExtension" type="m:DisableClientExtensionType"/>
  <xs:complexType name="DisableClientExtensionResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
```

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```
  <xs:element name="DisableClientExtensionResponse"
type="m:DisableClientExtensionResponseType"/>
  <xs:element name="GetClientAccessToken" type="m:GetClientAccessTokenType"/>
  <xs:complexType name="GetClientAccessTokenResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element minOccurs="0" name="Token" type="t:ClientAccessTokenType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="GetClientAccessTokenResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetClientAccessTokenResponse" type="m:GetClientAccessTokenResponseType"/>
  <xs:complexType name="GetClientAccessTokenType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="TokenRequests"
type="t:NonEmptyArrayOfClientAccessTokenRequestsType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetClientExtensionManifestsResponse"
type="m:GetClientExtensionManifestsResponseType"/>
  <xs:complexType name="GetClientExtensionManifestsResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element maxOccurs="1" name="Manifests"
type="m:ArrayOfClientExtensionManifestsType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetClientExtensionManifests" type="m:GetClientExtensionManifestsType"/>
  <xs:complexType name="GetClientExtensionManifestsType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="GetPopularClientExtensionsType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetPopularClientExtensions" type="m:GetPopularClientExtensionsType"/>
  <xs:complexType name="GetPopularClientExtensionsResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element maxOccurs="1" name="Extensions"
type="m:ArrayOfPopularClientExtensionsType"/>
        </xs:sequence>
```

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```
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetPopularClientExtensionsResponse"
type="m:GetPopularClientExtensionsResponseType"/>
  <xs:complexType name="ArrayOfPopularClientExtensionsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Extension"
type="m:PopularClientExtensionType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="PopularClientExtensionType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Title" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="Publisher" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="IconUrl" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="MarketplaceUrl" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

7.2 http://schemas.microsoft.com/exchange/services/2006/types Schema

This section contains the full XML schema for types.

```
<?xml version="1.0"?>
<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
version="Exchange2012" id="types" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:complexType name="ClientAccessTokenRequestType">
    <xs:sequence>
      <xs:element name="Id" type="xs:string"/>
      <xs:element name="TokenType" type="t:ClientAccessTokenTypeType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ClientAccessTokenType">
    <xs:sequence>
      <xs:element name="Id" type="xs:string"/>
      <xs:element name="TokenType" type="t:ClientAccessTokenTypeType"/>
      <xs:element name="TokenValue" type="xs:string"/>
      <xs:element name="TTL" type="xs:integer"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="ClientAccessTokenTypeType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="CallerIdentity"/>
      <xs:enumeration value="ExtensionCallback"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="DisableReasonType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="NoReason"/>
      <xs:enumeration value="OutlookClientPerformance"/>
      <xs:enumeration value="OWAClientPerformance"/>
      <xs:enumeration value="MobileClientPerformance"/>
    </xs:restriction>
```

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```
  </xs:simpleType>
  <xs:complexType name="NonEmptyArrayOfClientAccessTokenRequestsType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" name="TokenRequest"
type="t:ClientAccessTokenRequestType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NonEmptyArrayOfClientAccessTokensType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" name="Token"
type="t:ClientAccessTokenType"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```

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8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® Exchange Server 2013 Preview
- Microsoft® Outlook® 2013 Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. 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 that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

<1> Section 3.1.4.1.1.1: Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<2> Section 3.1.4.2.1.1: Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<3> Section 3.1.4.3.1.1: Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

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9 Change Tracking

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

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