

# [MS-OXWSURPT]: Retention Tag Web Service Protocol Specification

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### Revision Summary

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07/16/2012	0.1	New	Released new document.

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# 1 Introduction

The Retention Tag Web Service Protocol enables clients to use a **Web service** to retrieve **retention policy** information for items in a **mailbox**.

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**  
**mailbox**  
**retention policy**  
**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](mailto: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](#)".

[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-OXDCLI] 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 defines retention policies which are policies that are used to group one or more retention tags, to apply retention settings to folders or individual items such as email and voice-mail messages, and to apply retention settings to a mailbox.

There are three types of retention tags:

- Default policy tags that apply to mailbox items that have no other type of retention tag applied.
- System folder policy tags that are applied to default folders, such as the Inbox.
- Personal tags that users can apply to folders that they create or to individual items.

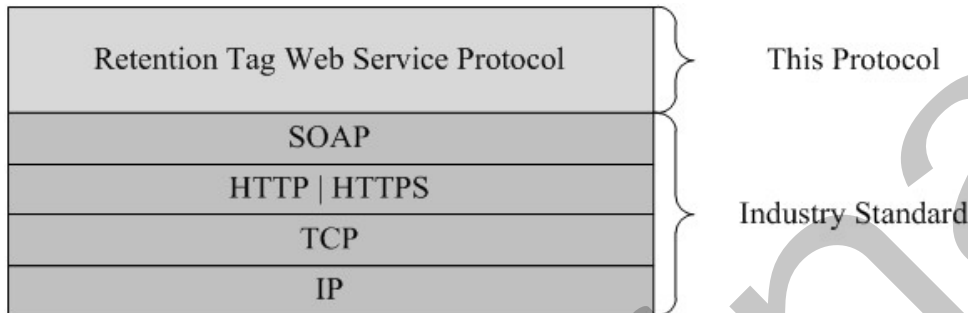
Only one retention policy can be assigned to a mailbox, but the policy can have one or more retention tags of various types linked to it. Retention tags can be linked to or unlinked from a retention policy at any time. This protocol provides an operation that lists all the tags that are associated with a user. These include tags linked to the retention policy applied on the user and tags that were selected by the user.

## 1.4 Relationship to Other Protocols

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

This protocol uses the SOAP Protocol, as described in [\[SOAP1.1\]](#), to specify the structure information that is exchanged between the client and 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 specified in [\[MS-OXWSADISC\]](#), or the Autodiscover Publishing and Lookup Protocol, as specified in [\[MS-OXDCLI\]](#), 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 retention policies 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.

## 1.9 Standards Assignments

None.

Preliminary



## 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 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** 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	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
t	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
wsi	<a href="http://ws-i.org/schemas/conformanceClaim/">http://ws-i.org/schemas/conformanceClaim/</a>	
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a> <a href="#">[XMLSCHEMA2]</a>

#### 2.2.2 Messages

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

#### 2.2.3 Elements

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

## 2.2.4 Complex Types

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
RetentionTagType	The <b>RetentionTagType</b> complex type specifies the retention policy tag applied to a folder or an item.

### 2.2.4.1 RetentionTagType

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

The **RetentionTagType** complex type specifies the retention policy tag applied to a folder or an item.

```
<xs:complexType name="RetentionTagType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleContent>
    <xs:extension base="t:GuidType">
      <xs:attribute name="IsExplicit" type="xs:boolean" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

**IsExplicit:** Indicates whether the retention policy tag associated with a folder or an item was applied explicitly.

## 2.2.5 Simple Types

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

Simple type	Description
RetentionType	The <b>RetentionType</b> simple type specifies the type of the retention action.

### 2.2.5.1 RetentionType

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

The **RetentionType** simple type specifies the type of the retention action.

```
<xs:simpleType name="RetentionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Delete"/>
    <xs:enumeration value="Archive"/>
  </xs:restriction>
</xs:simpleType>
```

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

<b>Value</b>	<b>Meaning</b>
Delete	Specifies deletion.
Archive	Specifies archiving.

### **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.

Preliminary

## 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
GetUserRetentionPolicyTags	The <b>GetUserRetentionPolicyTags</b> operation retrieves a list of all default, system folder, and personal tags that are associated with a user by means of a system policy or that were applied by the user.

##### 3.1.4.1 GetUserRetentionPolicyTags

The **GetUserRetentionPolicyTags** operation retrieves a list of all default, system folder, and personal tags that are associated with a user by means of a system policy or that were applied by the user.

```
<wsdl:operation name="GetUserRetentionPolicyTags"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetUserRetentionPolicyTagsSoapIn"/>
  <wsdl:output message="m:GetUserRetentionPolicyTagsSoapOut"/>
</wsdl:operation>
```

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

```
<wsdl:operation name="GetUserRetentionPolicyTags"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUserRetentionPolicyTags"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
```

```

<wsdl:input>
  <soap:header message="m:GetUserRetentionPolicyTagsSoapIn" 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="GetUserRetentionPolicyTagsResult"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  <soap:header message="m:GetUserRetentionPolicyTagsSoapOut" 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
GetUserRetentionPolicyTagsSoapIn	Specifies the request to retrieve user retention policy tags.
GetUserRetentionPolicyTagsSoapOut	Specifies the response to the <b>GetUserRetentionPolicyTagsSoapIn</b> request.

#### 3.1.4.1.1.1 GetUserRetentionPolicyTagsSoapIn

The **GetUserRetentionPolicyTagsSoapIn** WSDL message specifies the request to retrieve user retention policy tags.

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

```

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

```

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

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

Part name	Element/type	Description
request	m:GetUserRetentionPolicyTags (section <a href="#">3.1.4.1.2.1</a> )	Specifies the <b>SOAP body</b> of the request containing the information that is required to query for availability.
RequestVersion	t:RequestServerVersion ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.5.9)	Specifies a <b>SOAP header</b> that identifies the schema version for the <b>GetUserRetentionPolicyTags</b> operation request. <a href="#">&lt;1&gt;</a>

### 3.1.4.1.1.2 GetUserRetentionPolicyTagsSoapOut

The **GetUserRetentionPolicyTagsSoapOut** WSDL message specifies the response to the **GetUserRetentionPolicyTagsSoapIn** request.

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

```
<wsdl:message name="GetUserRetentionPolicyTagsSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetUserRetentionPolicyTagsResult"
element="m:GetUserRetentionPolicyTagsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
GetUserRetentionPolicyTagsResult	m:GetUserRetentionPolicyTagsResponse (section <a href="#">3.1.4.1.2.2</a> )	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ( <a href="#">[MS-OXWSCDATA]</a> 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
GetUserRetentionPolicyTags	The input data for the <b>GetUserRetentionPolicyTags WSDL operation</b> .
GetUserRetentionPolicyTagsResponse	The result data for the <b>GetUserRetentionPolicyTags WSDL operation</b> .

#### 3.1.4.1.2.1 GetUserRetentionPolicyTags

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

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

#### 3.1.4.1.2.2 GetUserRetentionPolicyTagsResponse

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

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

### 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
GetUserRetentionPolicyTagsType	Specifies a request to retrieve user retention policy tags.
GetUserRetentionPolicyTagsResponseMessageType	Specifies a response message for the <b>GetUserRetentionPolicyTags</b> operation.
ArrayOfRetentionPolicyTagsType	Specifies an array of retention policy tags that are returned by the <b>GetUserRetentionPolicyTags</b> operation.
RetentionPolicyTagType	Specifies a retention policy tag.

#### 3.1.4.1.3.1 ArrayOfRetentionPolicyTagsType

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

The **ArrayOfRetentionPolicyTagsType** complex type specifies an array of retention policy tags that are returned by the **GetUserRetentionPolicyTags** operation.

```
<xs:complexType name="ArrayOfRetentionPolicyTagsType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="RetentionPolicyTag"
type="t:RetentionPolicyTagType"/>
  </xs:sequence>
</xs:complexType>
```

**RetentionPolicyTag:** Represents a single retention policy tag.

#### 3.1.4.1.3.2 GetUserRetentionPolicyTagsResponseMessageType

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

The **GetUserRetentionPolicyTagsResponseMessageType** complex type specifies a response message for the **GetUserRetentionPolicyTags** operation.

```
<xs:complexType name="GetUserRetentionPolicyTagsResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="RetentionPolicyTags" type="t:ArrayOfRetentionPolicyTagsType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

**RetentionPolicyTags:** Represents an array of retention tags.

### 3.1.4.1.3.3 GetUserRetentionPolicyTagsType

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

The **GetUserRetentionPolicyTagsType** complex type specifies a request to retrieve user retention policy tags.

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

### 3.1.4.1.3.4 RetentionPolicyTagType

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

The **RetentionPolicyTagType** complex type specifies a retention policy tag.

```
<xs:complexType name="RetentionPolicyTagType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionId" type="t:GuidType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionPeriod" type="xs:int"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Type" type="t:ElcFolderType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionAction"
type="t:RetentionActionType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsVisible" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="OptedInto" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsArchive" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

**DisplayName:** Contains a string specifying the name of the retention policy.

**RetentionId:** Contains the retention tag identifier.

**RetentionPeriod:** Contains the number of days the retention is in effect.

**Type:** Contains a value indicating the type of the folder being used in a retention policy.

**RetentionAction:** Contains the action performed by the retention tag.

**Description:** Contains the descriptive text for the retention policy.

**IsVisible:** Contains a Boolean value that indicates whether the retention policy is visible to users.



**OptedInto:** Contains a Boolean value that indicates whether the user opted in to the retention policy.

**IsArchive:** Contains a Boolean value that indicates whether this is a move to archive the tag.

### 3.1.4.1.4 Simple Types

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

Simple type	Description
ElcFolderType	Identifies folders that accept Messaging Records Management (MRM) policies.
RetentionActionType	Identifies retention actions.

#### 3.1.4.1.4.1 ElcFolderType

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

The **ElcFolderType** enumeration identifies folders that accept Messaging Records Management (MRM) policies. In a retention policy tag, this indicates which folder the policy is to be applied.

```
<xs:simpleType name="ElcFolderType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Calendar"/>
    <xs:enumeration value="Contacts"/>
    <xs:enumeration value="DeletedItems"/>
    <xs:enumeration value="Drafts"/>
    <xs:enumeration value="Inbox"/>
    <xs:enumeration value="JunkEmail"/>
    <xs:enumeration value="Journal"/>
    <xs:enumeration value="Notes"/>
    <xs:enumeration value="Outbox"/>
    <xs:enumeration value="SentItems"/>
    <xs:enumeration value="Tasks"/>
    <xs:enumeration value="All"/>
    <xs:enumeration value="ManagedCustomFolder"/>
    <xs:enumeration value="RssSubscriptions"/>
    <xs:enumeration value="SyncIssues"/>
    <xs:enumeration value="ConversationHistory"/>
    <xs:enumeration value="Personal"/>
    <xs:enumeration value="RecoverableItems"/>
    <xs:enumeration value="NonIpmRoot"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
Calendar	Calendar folder.
Contacts	Contacts folder.
DeletedItems	Deleted items folder.

Value	Meaning
Drafts	Drafts folder.
Inbox	Inbox folder.
JunkEmail	Junk email folder.
Journal	Journal folder.
Notes	Notes folder.
Outbox	Outbox folder.
SentItems	Sent items folder.
Tasks	Tasks folder.
All	All folders. This indicates the default policy tag.
ManagedCustomFolder	Managed custom folder.
RssSubscriptions	RSS subscriptions folder.
SyncIssues	Synchronization issues folder.
ConversationHistory	Conversation history folder.
Personal	Personal folder. This is folder created by the user.
RecoverableItems	Recoverable items folder.
NonIpmRoot	Root folder that is not an interpersonal message (IPM) folder.

### 3.1.4.1.4.2 RetentionActionType

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

The **RetentionActionType** enumeration identifies retention actions.

```
<xs:simpleType name="RetentionActionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="MoveToDeletedItems"/>
    <xs:enumeration value="MoveToFolder"/>
    <xs:enumeration value="DeleteAndAllowRecovery"/>
    <xs:enumeration value="PermanentlyDelete"/>
    <xs:enumeration value="MarkAsPastRetentionLimit"/>
    <xs:enumeration value="MoveToArchive"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
None	No action.

Value	Meaning
MoveToDeletedItems	Move to deleted items folder.
MoveToFolder	Move to folder.
DeleteAndAllowRecovery	Delete and allow recovery.
PermanentlyDelete	Delete permanently.
MarkAsPastRetentionLimit	Mark as past retention limit.
MoveToArchive	Move to archive mailbox.

#### **3.1.4.1.5 Attributes**

None.

#### **3.1.4.1.6 Groups**

None.

#### **3.1.4.1.7 Attribute Groups**

None.

#### **3.1.5 Timer Events**

None.

#### **3.1.6 Other Local Events**

None.

## 4 Protocol Examples

The following code example shows a request to retrieve user retention policy tags:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2012"/>
    <t:TimeZoneContext>
      <t:TimeZoneDefinition Id="Pacific Standard Time"/>
    </t:TimeZoneContext>
  </soap:Header>
  <soap:Body>
    <m:GetUserRetentionPolicyTags/>
  </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="430"
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">
    <GetUserRetentionPolicyTagsResponse ResponseClass="Success"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
    <ResponseCode>NoError</ResponseCode>
    <RetentionPolicyTags>
      <RetentionPolicyTag xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <DisplayName>Recoverable Items 14 days move to archive</DisplayName>
        <RetentionId>80feb2e9-8e6f-4f67-06ae585982</RetentionId>
        <RetentionPeriod>14</RetentionPeriod>
        <Type>Personal</Type>
        <RetentionAction>MoveToArchive</RetentionAction>
        <IsVisible>>false</IsVisible>
        <OptedInto>>false</OptedInto>
        <IsArchive>>true</IsArchive>
      </RetentionPolicyTag>
      <RetentionPolicyTag xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
        <DisplayName>Never Delete</DisplayName>
        <RetentionId>414c6a14-3ed5-432e-620a8278f0</RetentionId>
        <RetentionPeriod>0</RetentionPeriod>
        <Type>Personal</Type>
        <RetentionAction>None</RetentionAction>
        <IsVisible>>true</IsVisible>
        <OptedInto>>false</OptedInto>
    </RetentionPolicyTags>
  </s:Body>
</s:Envelope>
```

```

    <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
  <DisplayName>5 Year Delete</DisplayName>
  <RetentionId>1d128b50-14f2-4417-cb7d015fd7</RetentionId>
  <RetentionPeriod>1825</RetentionPeriod>
  <Type>Personal</Type>
  <RetentionAction>DeleteAndAllowRecovery</RetentionAction>
  <IsVisible>true</IsVisible>
  <OptedInto>>false</OptedInto>
  <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
  <DisplayName>1 Year Delete</DisplayName>
  <RetentionId>9a3c36dd-c0eb-424a-8bd17f855</RetentionId>
  <RetentionPeriod>365</RetentionPeriod>
  <Type>Personal</Type>
  <RetentionAction>DeleteAndAllowRecovery</RetentionAction>
  <IsVisible>true</IsVisible>
  <OptedInto>>false</OptedInto>
  <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
  <DisplayName>6 Month Delete</DisplayName>
  <RetentionId>d94993b5-e987-4275-2057cfb2b8</RetentionId>
  <RetentionPeriod>180</RetentionPeriod>
  <Type>Personal</Type>
  <RetentionAction>DeleteAndAllowRecovery</RetentionAction>
  <IsVisible>true</IsVisible>
  <OptedInto>>false</OptedInto>
  <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
  <DisplayName>1 Month Delete</DisplayName>
  <RetentionId>fc92a703-51e3-411f-966668ee49c</RetentionId>
  <RetentionPeriod>30</RetentionPeriod>
  <Type>Personal</Type>
  <RetentionAction>DeleteAndAllowRecovery</RetentionAction>
  <IsVisible>true</IsVisible>
  <OptedInto>>false</OptedInto>
  <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
  <DisplayName>1 Week Delete</DisplayName>
  <RetentionId>2d26745c-8566-4dc3-88f56443b7b</RetentionId>
  <RetentionPeriod>7</RetentionPeriod>
  <Type>Personal</Type>
  <RetentionAction>DeleteAndAllowRecovery</RetentionAction>
  <IsVisible>true</IsVisible>
  <OptedInto>>false</OptedInto>
  <IsArchive>>false</IsArchive>
  </RetentionPolicyTag>
  <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">

```

```

        <DisplayName>Personal never move to archive</DisplayName>
        <RetentionId>c6c9ad12-9e46-053-elea189ab0cc</RetentionId>
        <RetentionPeriod>0</RetentionPeriod>
        <Type>Personal</Type>
        <RetentionAction>None</RetentionAction>
        <IsVisible>true</IsVisible>
        <OptedInto>>false</OptedInto>
        <IsArchive>true</IsArchive>
    </RetentionPolicyTag>
    <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <DisplayName>Personal 5 year move to archive</DisplayName>
        <RetentionId>790300f2-2ffd-4380-2daadc05c8</RetentionId>
        <RetentionPeriod>1825</RetentionPeriod>
        <Type>Personal</Type>
        <RetentionAction>MoveToArchive</RetentionAction>
        <IsVisible>true</IsVisible>
        <OptedInto>>false</OptedInto>
        <IsArchive>true</IsArchive>
    </RetentionPolicyTag>
    <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <DisplayName>Personal 1 year move to archive</DisplayName>
        <RetentionId>66904d6f-bf73-4460-fad894a0f</RetentionId>
        <RetentionPeriod>365</RetentionPeriod>
        <Type>Personal</Type>
        <RetentionAction>MoveToArchive</RetentionAction>
        <IsVisible>true</IsVisible>
        <OptedInto>>false</OptedInto>
        <IsArchive>true</IsArchive>
    </RetentionPolicyTag>
    <RetentionPolicyTag
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
        <DisplayName>Default 2 year move to archive</DisplayName>
        <RetentionId>9acbb441-faf8-b3867bdf399c</RetentionId>
        <RetentionPeriod>730</RetentionPeriod>
        <Type>All</Type>
        <RetentionAction>MoveToArchive</RetentionAction>
        <IsVisible>>false</IsVisible>
        <OptedInto>>false</OptedInto>
        <IsArchive>true</IsArchive>
    </RetentionPolicyTag>
</RetentionPolicyTags>
</GetUserRetentionPolicyTagsResponse>
</s:Body>
</s:Envelope>

```

## 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.

## 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="GetUserRetentionPolicyTagsSoapIn">
    <wsdl:part name="request" element="m:GetUserRetentionPolicyTags"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="GetUserRetentionPolicyTagsSoapOut">
    <wsdl:part name="GetUserRetentionPolicyTagsResult"
element="m:GetUserRetentionPolicyTagsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="GetUserRetentionPolicyTags">
      <wsdl:input message="m:GetUserRetentionPolicyTagsSoapIn"/>
      <wsdl:output message="m:GetUserRetentionPolicyTagsSoapOut"/>
    </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="GetUserRetentionPolicyTags">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUserRetentionPoli
cyTags"/>
      <wsdl:input>
        <soap:header message="m:GetUserRetentionPolicyTagsSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetUserRetentionPolicyTagsResult"/>
        <soap:header message="m:GetUserRetentionPolicyTagsSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>
```



## 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
<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	m	<a href="#">7.1</a>
<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	t	<a href="#">7.2</a>

### 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-OXWSURPT-messages.xsd"/>
  <xs:complexType name="GetUserRetentionPolicyTagsType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetUserRetentionPolicyTags" type="m:GetUserRetentionPolicyTagsType"/>
  <xs:complexType name="GetUserRetentionPolicyTagsResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element name="RetentionPolicyTags" type="t:ArrayOfRetentionPolicyTagsType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetUserRetentionPolicyTagsResponse"
type="m:GetUserRetentionPolicyTagsResponseMessageType"/>
</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:include schemaLocation="MS-OXWSXPROP-types.xsd"/>
  <xs:complexType name="ArrayOfRetentionPolicyTagsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="RetentionPolicyTag"
type="t:RetentionPolicyTagType"/>
    </xs:sequence>
  </xs:complexType>
```

```

    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ElcFolderType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Calendar"/>
    <xs:enumeration value="Contacts"/>
    <xs:enumeration value="DeletedItems"/>
    <xs:enumeration value="Drafts"/>
    <xs:enumeration value="Inbox"/>
    <xs:enumeration value="JunkEmail"/>
    <xs:enumeration value="Journal"/>
    <xs:enumeration value="Notes"/>
    <xs:enumeration value="Outbox"/>
    <xs:enumeration value="SentItems"/>
    <xs:enumeration value="Tasks"/>
    <xs:enumeration value="All"/>
    <xs:enumeration value="ManagedCustomFolder"/>
    <xs:enumeration value="RssSubscriptions"/>
    <xs:enumeration value="SyncIssues"/>
    <xs:enumeration value="ConversationHistory"/>
    <xs:enumeration value="Personal"/>
    <xs:enumeration value="RecoverableItems"/>
    <xs:enumeration value="NonIpmRoot"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="RetentionActionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="MoveToDeletedItems"/>
    <xs:enumeration value="MoveToFolder"/>
    <xs:enumeration value="DeleteAndAllowRecovery"/>
    <xs:enumeration value="PermanentlyDelete"/>
    <xs:enumeration value="MarkAsPastRetentionLimit"/>
    <xs:enumeration value="MoveToArchive"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="RetentionPolicyTagType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionId" type="t:GuidType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionPeriod" type="xs:int"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Type" type="t:ElcFolderType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetentionAction"
type="t:RetentionActionType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Description" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsVisible" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="OptedInto" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsArchive" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="RetentionTagType">
  <xs:simpleContent>
    <xs:extension base="t:GuidType">
      <xs:attribute name="IsExplicit" type="xs:boolean" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="RetentionType">
  <xs:restriction base="xs:string">

```

```
<xs:enumeration value="Delete"/>
<xs:enumeration value="Archive"/>
</xs:restriction>
</xs:simpleType>
</xs:schema>
```

Preliminary

## 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® Web App

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.

## 9 Change Tracking

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

Preliminary

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