

[MS-OXWSEDISC]: Electronic Discovery (eDiscovery) Web Service Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
07/16/2012	0.1	New	Released new document.
10/08/2012	1.0	Major	Significantly changed the technical content.
02/11/2013	2.0	Major	Significantly changed the technical content.
07/26/2013	2.0	No change	No changes to the meaning, language, or formatting of the technical content.

Table of Contents

1 Introduction	6
1.1 Glossary	6
1.2 References.....	6
1.2.1 Normative References.....	7
1.2.2 Informative References	7
1.3 Overview	8
1.4 Relationship to Other Protocols.....	8
1.5 Prerequisites/Preconditions	8
1.6 Applicability Statement.....	9
1.7 Versioning and Capability Negotiation.....	9
1.8 Vendor-Extensible Fields.....	9
1.9 Standards Assignments	9
2 Messages	10
2.1 Transport.....	10
2.2 Common Message Syntax	10
2.2.1 Namespaces	10
2.2.2 Messages	10
2.2.3 Elements.....	10
2.2.4 Complex Types	11
2.2.4.1 ArrayOfFailedSearchMailboxesType	11
2.2.4.2 ArrayOfMailboxHoldStatusType.....	11
2.2.4.3 ArrayOfSearchableMailboxesType	12
2.2.4.4 FailedSearchMailboxType	12
2.2.4.5 MailboxHoldResultType.....	13
2.2.4.6 MailboxHoldStatusType	13
2.2.4.7 SearchableMailboxType	13
2.2.5 Simple Types.....	14
2.2.5.1 HoldStatusType	14
2.2.6 Attributes.....	15
2.2.7 Groups.....	15
2.2.8 Attribute Groups	15
3 Protocol Details	16
3.1 ExchangeServicePortType Server Details	16
3.1.1 Abstract Data Model	16
3.1.2 Timers	16
3.1.3 Initialization	16
3.1.4 Message Processing Events and Sequencing Rules.....	16
3.1.4.1 GetDiscoverySearchConfiguration	17
3.1.4.1.1 Messages	17
3.1.4.1.1.1 GetDiscoverySearchConfigurationSoapIn	17
3.1.4.1.1.2 GetDiscoverySearchConfigurationSoapOut	18
3.1.4.1.2 Elements.....	19
3.1.4.1.2.1 GetDiscoverySearchConfiguration	19
3.1.4.1.2.2 GetDiscoverySearchConfigurationResponse.....	19
3.1.4.1.3 Complex Types	20
3.1.4.1.3.1 GetDiscoverySearchConfigurationType	20
3.1.4.1.3.2 GetDiscoverySearchConfigurationResponseMessageType	21
3.1.4.1.3.3 ArrayOfDiscoverySearchConfigurationType	21

3.1.4.1.3.4	DiscoverySearchConfigurationType	22
3.1.4.1.4	Simple Types	22
3.1.4.1.5	Attributes	22
3.1.4.1.6	Groups	22
3.1.4.1.7	Attribute Groups	22
3.1.4.2	GetHoldOnMailboxes	22
3.1.4.2.1	Messages	23
3.1.4.2.1.1	GetHoldOnMailboxesSoapIn	23
3.1.4.2.1.2	GetHoldOnMailboxesSoapOut	24
3.1.4.2.2	Elements	25
3.1.4.2.2.1	GetHoldOnMailboxes	25
3.1.4.2.2.2	GetHoldOnMailboxesResponse	25
3.1.4.2.3	Complex Types	25
3.1.4.2.3.1	GetHoldOnMailboxesType	25
3.1.4.2.3.2	GetHoldOnMailboxesResponseMessageType	26
3.1.4.2.4	Simple Types	26
3.1.4.2.5	Attributes	26
3.1.4.2.6	Groups	26
3.1.4.2.7	Attribute Groups	26
3.1.4.3	GetSearchableMailboxes	26
3.1.4.3.1	Messages	27
3.1.4.3.1.1	GetSearchableMailboxesSoapIn	27
3.1.4.3.1.2	GetSearchableMailboxesSoapOut	28
3.1.4.3.2	Elements	29
3.1.4.3.2.1	GetSearchableMailboxes	29
3.1.4.3.2.2	GetSearchableMailboxesResponse	29
3.1.4.3.3	Complex Types	29
3.1.4.3.3.1	GetSearchableMailboxesType	29
3.1.4.3.3.2	GetSearchableMailboxesResponseMessageType	30
3.1.4.3.4	Simple Types	30
3.1.4.3.5	Attributes	30
3.1.4.3.6	Groups	31
3.1.4.3.7	Attribute Groups	31
3.1.4.4	SearchMailboxes	31
3.1.4.4.1	Messages	31
3.1.4.4.1.1	SearchMailboxesSoapIn	32
3.1.4.4.1.2	SearchMailboxesSoapOut	32
3.1.4.4.2	Elements	33
3.1.4.4.2.1	SearchMailboxes	33
3.1.4.4.2.2	SearchMailboxesResponse	33
3.1.4.4.3	Complex Types	33
3.1.4.4.3.1	SearchMailboxesType	34
3.1.4.4.3.2	NonEmptyArrayOfMailboxQueriesType	35
3.1.4.4.3.3	MailboxQueryType	35
3.1.4.4.3.4	NonEmptyArrayOfMailboxSearchScopesType	36
3.1.4.4.3.5	MailboxSearchScopeType	36
3.1.4.4.3.6	PreviewItemResponseShapeType	37
3.1.4.4.3.7	NonEmptyArrayOfExtendedFieldURIsType	37
3.1.4.4.3.8	SearchMailboxesResponseType	37
3.1.4.4.3.9	SearchMailboxesResponseMessageType	38
3.1.4.4.3.10	SearchMailboxesResultType	38
3.1.4.4.3.11	ArrayOfKeywordStatisticsSearchResultsType	39
3.1.4.4.3.12	KeywordStatisticsSearchResultType	39

3.1.4.4.3.13	ArrayOfSearchPreviewItemsType	40
3.1.4.4.3.14	SearchPreviewItemType	40
3.1.4.4.3.15	PreviewItemMailboxType	42
3.1.4.4.3.16	ArrayOfSearchRefinerItemsType	42
3.1.4.4.3.17	SearchRefinerItemType	42
3.1.4.4.3.18	ArrayOfMailboxStatisticsItemsType	43
3.1.4.4.3.19	MailboxStatisticsItemType	43
3.1.4.4.4	Simple Types	44
3.1.4.4.4.1	MailboxSearchLocationType	44
3.1.4.4.4.2	SearchResultType	44
3.1.4.4.4.3	PreviewItemBaseShapeType	45
3.1.4.4.4.4	SearchPageDirectionType	45
3.1.4.4.5	Attributes	46
3.1.4.4.6	Groups	46
3.1.4.4.7	Attribute Groups	46
3.1.4.5	SetHoldOnMailboxes	46
3.1.4.5.1	Messages	46
3.1.4.5.1.1	SetHoldOnMailboxesSoapIn	47
3.1.4.5.1.2	SetHoldOnMailboxesSoapOut	47
3.1.4.5.2	Elements	48
3.1.4.5.2.1	SetHoldOnMailboxes	48
3.1.4.5.2.2	SetHoldOnMailboxesResponse	48
3.1.4.5.3	Complex Types	48
3.1.4.5.3.1	SetHoldOnMailboxesType	49
3.1.4.5.3.2	SetHoldOnMailboxesResponseMessageType	50
3.1.4.5.4	Simple Types	50
3.1.4.5.4.1	HoldActionType	50
3.1.4.5.5	Attributes	51
3.1.4.5.6	Groups	51
3.1.4.5.7	Attribute Groups	51
3.1.5	Timer Events	51
3.1.6	Other Local Events	51
4	Protocol Examples	52
4.1	Setting Holds On Mailboxes	52
4.2	Getting Mailboxes With Holds	53
4.3	Getting Searchable Mailboxes	54
4.4	Searching Mailboxes	56
5	Security	59
5.1	Security Considerations for Implementers	59
5.2	Index of Security Parameters	59
6	Appendix A: Full WSDL	60
7	Appendix B: Full XML Schema	63
7.1	http://schemas.microsoft.com/exchange/services/2006/messages Schema	63
7.2	http://schemas.microsoft.com/exchange/services/2006/types Schema	65
8	Appendix C: Product Behavior	71
9	Change Tracking	72
10	Index	73

1 Introduction

The Electronic Discovery (eDiscovery) Web Service Protocol enables clients to use a **web service** to implement legal compliance holds, get user hold settings, and search for **mailboxes**.

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 [\[MS-GLOS\]](#):

GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
SOAP
SOAP action
SOAP body
SOAP header
XML namespace

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

display name
distribution list
electronic discovery (eDiscovery)
endpoint
mailbox
Simple Mail Transfer Protocol (SMTP)
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
web server
web service
Web Services Description Language (WSDL)
WSDL message
WSDL operation
WSDL port type
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](#)".

[MS-OXWSCORE] Microsoft Corporation, "[Core Items Web Service Protocol](#)".

[MS-OXWSMSHR] Microsoft Corporation, "[Folder Sharing Web Service Protocol](#)".

[MS-OXWSSRCH] Microsoft Corporation, "[Mailbox Search Web Service Protocol](#)".

[MS-OXWSXPROP] Microsoft Corporation, "[Extended Properties Structure](#)".

[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>

[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>

[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>

[WSIBASIC] Ballinger, K., Ehnebuske, D., Gudgin, M., et al., Eds., "Basic Profile Version 1.0", Final Material, April 2004, <http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html>

[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., Beech, D., Maloney, M., Eds., 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., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

1.2.2 Informative References

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

[MS-OXDCLI] Microsoft Corporation, "[Autodiscover Publishing and Lookup Protocol](#)".

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

[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](#)".

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

[MS-OXWSCOS] Microsoft Corporation, "[Unified Contact Store Web Service Protocol](#)".

[MS-OXWSGNI] Microsoft Corporation, "[Nonindexable Item Web Service Protocol](#)".

1.3 Overview

The eDiscovery Web Service Protocol is a federated query web service that enables external applications to query mailbox data.

Discovery consists of several phases, including identifying and preserving key data, reducing the amount of data, reviewing the data, and producing data in court. **Electronic discovery (eDiscovery)** queries facilitate the discovery process by providing a single discovery workflow.

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 [\[MS-OXDSCLI\]](#), to identify the target **endpoint (4)** to use for each operation.

This protocol uses **SOAP**, as described in [\[SOAP1.1\]](#), to specify the structure information that is exchanged between the client and the server. This protocol uses the **XML schema**, 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.

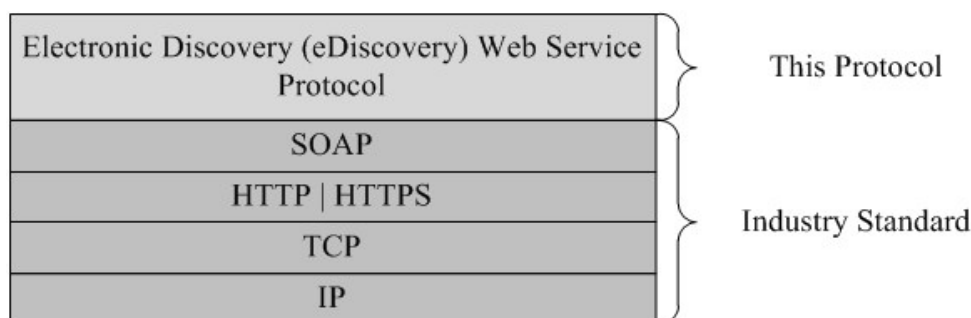


Figure 1: This protocol in relation to other protocols

The Nonindexable Item Web Service Protocol, as described in [\[MS-OXWSGNI\]](#), uses the mailbox search and mailbox hold information provided by this protocol.

This protocol uses information about the extended **Uniform Resource Identifier (URI)** provided by the Uniform Contact Store Web Service Protocol, as described in [\[MS-OXWSCOS\]](#).

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [\[MS-OXPROTO\]](#).

1.5 Prerequisites/Preconditions

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. This endpoint (4) **URL** 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 [\[MS-OXDSCLI\]](#).

1.6 Applicability Statement

This protocol is applicable to environments that use web services to implement electronic discovery from 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 specified in [2.1](#).
- **Protocol Versions:** This protocol specifies only one **WSDL port type** version. The **RequestServerVersion** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.5.9, identifies the **Web Services Description Language (WSDL)** version of the request. The **ServerVersionInfo** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.5.10, identifies the version of the server responding to the request.
- **Security and Authentication Methods:** This protocol relies on the **web server** that is hosting it to perform authentication.
- **Localization:** This protocol includes date and time formats in various elements, as specified in section [3.1.4](#).
- **Capability Negotiation:** This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

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

This protocol uses the Simple Object Access Protocol (SOAP) 1.1, as specified in [\[SOAP1.1\]](#).

This protocol **MUST** support SOAP over HTTP, as specified in [\[RFC2616\]](#). The protocol **SHOULD** use secure communications by means of HTTPS, as defined 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 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	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/	[WSIBASIC]
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.

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
ArrayOfFailedSearchMailboxesType	The ArrayOfFailedSearchMailboxesType complex type specifies an array of failed searches.
ArrayOfMailboxHoldStatusType	The ArrayOfMailboxHoldStatusType complex type specifies an array of mailbox hold statuses.
ArrayOfSearchableMailboxesType	The ArrayOfSearchableMailboxesType complex type specifies an array of mailbox entities returned from the GetSearchableMailboxes operation.
FailedSearchMailboxType	The FailedSearchMailboxType complex type represents a failed search of a mailbox.
MailboxHoldResultType	The MailboxHoldResultType complex type specifies the result of a mailbox hold.
MailboxHoldStatusType	The MailboxHoldStatusType complex type specifies the status of a mailbox hold.
SearchableMailboxType	The SearchableMailboxType complex type specifies the mailbox entity returned from the GetSearchableMailboxes operation specified in section 3.1.4.3 .

2.2.4.1 ArrayOfFailedSearchMailboxesType

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

The **ArrayOfFailedSearchMailboxesType** complex type specifies an array of failed searches.

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

FailedMailbox: An element of type **FailedSearchMailboxType**, as defined in section [2.2.4.4](#), that specifies a failed search.

2.2.4.2 ArrayOfMailboxHoldStatusType

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

The **ArrayOfMailboxHoldStatusType** complex type specifies an array of mailbox hold statuses.

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

```

    <xs:element minOccurs="0" maxOccurs="unbounded" name="MailboxHoldStatus"
type="t:MailboxHoldStatusType"/>
  </xs:sequence>
</xs:complexType>

```

MailboxHoldStatus: An element of type **MailboxHoldStatusType**, as defined in section [2.2.4.6](#), that specifies the hold status of the mailbox.

2.2.4.3 ArrayOfSearchableMailboxesType

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

The **ArrayOfSearchableMailboxesType** complex type specifies an array of mailbox entities returned from the **GetSearchableMailboxes** operation.

```

<xs:complexType name="ArrayOfSearchableMailboxesType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SearchableMailbox"
type="t:SearchableMailboxType"/>
  </xs:sequence>
</xs:complexType>

```

SearchableMailbox: An element of type **SearchableMailboxType**, as defined in section [2.2.4.7](#), that represents the **distribution list** or mailbox entity returned from the **GetSearchableMailboxes** operation.

2.2.4.4 FailedSearchMailboxType

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

The **FailedSearchMailboxType** complex type represents a failed search of a mailbox.

```

<xs:complexType name="FailedSearchMailboxType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ErrorCode" type="xs:int"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ErrorMessage" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsArchive" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>

```

Mailbox: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that contains an identifier for the mailbox.

ErrorCode: An element of type **int**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.17, that contains the error code of the failed search. [<1>](#)

ErrorMessage: An element of type **string** that contains the error message of the failed search.

IsArchive: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether the mailbox is an archive mailbox.

2.2.4.5 MailboxHoldResultType

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

The **MailboxHoldResultType** complex type specifies the result of a mailbox hold.

```
<xs:complexType name="MailboxHoldResultType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="HoldId" type="xs:string"/>
    <xs:element minOccurs="0" name="Query" type="xs:string"/>
    <xs:element name="MailboxHoldStatuses" type="t:ArrayOfMailboxHoldStatusType"/>
  </xs:sequence>
</xs:complexType>
```

HoldId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) 3.2.1, that represents the hold identifier.

Query: An element of type **string** that represents a search query.

MailboxHoldStatuses: An element of type **ArrayOfMailboxHoldStatusType**, as defined in section [2.2.4.2](#), that contains an array of mailbox hold statuses.

2.2.4.6 MailboxHoldStatusType

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

The **MailboxHoldStatusType** complex type specifies the status of a mailbox hold.

```
<xs:complexType name="MailboxHoldStatusType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Status" type="t:HoldStatusType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="AdditionalInfo" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Mailbox: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1., that contains an identifier for the mailbox.

Status: An element of type **HoldStatusType**, as defined in section [2.2.5.1](#), that contains the hold status for a mailbox.

AdditionalInfo: An element of type **string** that represents additional information.

2.2.4.7 SearchableMailboxType

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

The **SearchableMailboxType** complex type specifies the mailbox entity returned from the **GetSearchableMailboxes** operation specified in section [3.1.4.3](#).

```
<xs:complexType name="SearchableMailboxType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Guid" type="t:GuidType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="PrimarySmtptAddress" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

```

<xs:element minOccurs="1" maxOccurs="1" name="IsExternalMailbox" type="xs:boolean"/>
<xs:element minOccurs="1" maxOccurs="1" name="ExternalEmailAddress" type="xs:string"/>
<xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
<xs:element minOccurs="1" maxOccurs="1" name="IsMembershipGroup" type="xs:boolean"/>
<xs:element minOccurs="1" maxOccurs="1" name="ReferenceId" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

Guid: An element of type **GuidType**, as defined in [\[MS-OXWSXPROP\]](#) section 2.1.7, that contains the **GUID** of the mailbox.

PrimarySmtptAddress: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the primary **Simple Mail Transfer Protocol (SMTP)** address of the mailbox.

IsExternalMailbox: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether the mailbox is an external mailbox.

ExternalEmailAddress: An element of type **string** that contains the external email address of the mailbox.

DisplayName: An element of type **string** that contains a string that specifies the name of the mailbox.

IsMembershipGroup: An element of type **boolean** that indicates whether the entity is a mailbox or a distribution list. True indicates a distribution list; otherwise, false.

ReferenceId: An element of type **string** that contains the reference identifier for the mailbox.

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
HoldStatusType	The HoldStatusType simple type specifies the hold status.

2.2.5.1 HoldStatusType

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

The **HoldStatusType** simple type specifies the hold status.

```

<xs:simpleType name="HoldStatusType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotOnHold"/>
    <xs:enumeration value="Pending"/>
    <xs:enumeration value="OnHold"/>
    <xs:enumeration value="PartialHold"/>
    <xs:enumeration value="Failed"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **HoldStatusType** simple type.

Value	Meaning
NotOnHold	The mailbox is not on hold.
Pending	Placing or releasing a hold is in progress.
OnHold	The hold was successfully applied to the mailbox.
PartialHold	The hold was successfully applied to some mailboxes but not to all mailboxes.
Failed	The hold failed to apply to the mailbox.

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.

3 Protocol Details

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

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, the ExchangeServicePortType, and a set of operations that enable clients to perform eDiscovery searches of mailboxes and to get and set holds on mailboxes.

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
GetDiscoverySearchConfiguration	The GetDiscoverySearchConfiguration operation retrieves a search configuration for eDiscovery.
GetHoldOnMailboxes	The GetHoldOnMailboxes operation retrieves the status of a query-based hold, which is set by using the SetHoldOnMailboxes operation, as specified in section 3.1.4.5 .
GetSearchableMailboxes	The GetSearchableMailboxes operation retrieves a list of mailboxes on which the client has permission to search or to perform eDiscovery.
SearchMailboxes	The SearchMailboxes operation searches for items in the specified mailboxes that match query keywords.
SetHoldOnMailboxes	The SetHoldOnMailboxes operation sets a query-based hold on mailboxes.

3.1.4.1 GetDiscoverySearchConfiguration

The **GetDiscoverySearchConfiguration** operation retrieves a search configuration for eDiscovery.

```
<wsdl:operation name="GetDiscoverySearchConfiguration"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetDiscoverySearchConfigurationSoapIn"/>
  <wsdl:output message="m:GetDiscoverySearchConfigurationSoapOut"/>
</wsdl:operation>
```

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

```
<wsdl:operation name="GetDiscoverySearchConfiguration"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetDiscoverySearchCo
nfiguration" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  <wsdl:input>
    <soap:header message="m:GetDiscoverySearchConfigurationSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <soap:header message="m:GetDiscoverySearchConfigurationSoapIn" part="ManagementRole"
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="GetDiscoverySearchConfigurationResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <soap:header message="m:GetDiscoverySearchConfigurationSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  </wsdl:output>
</wsdl:operation>
```

The client sends a **GetDiscoverySearchConfigurationSoapIn** request WSDL message, as specified in section [3.1.4.1.1.1](#), and the server responds with a **GetDiscoverySearchConfigurationSoapOut** response, as specified in section [3.1.4.1.1.2](#).

3.1.4.1.1 Messages

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

Message	Description
GetDiscoverySearchConfigurationSoapIn	Specifies the request to retrieve the search configuration.
GetDiscoverySearchConfigurationSoapOut	Specifies the response to the GetDiscoverySearchConfigurationSoapIn request message (section 3.1.4.1.1.1).

3.1.4.1.1.1 GetDiscoverySearchConfigurationSoapIn

The **GetDiscoverySearchConfigurationSoapIn** WSDL message specifies the request to retrieve the search configuration.

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

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

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

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

Part name	Element/type	Description
request	m:GetDiscoverySearchConfiguration	Specifies the SOAP body of the request for the search configuration.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the GetDiscoverySearchConfigurationSoapIn WSDL message.
ManagementRole	t:ManagementRole ([MS-OXWSCDATA] section 2.2.5.7)	Specifies a SOAP header that identifies a user or application role.

3.1.4.1.1.2 GetDiscoverySearchConfigurationSoapOut

The **GetDiscoverySearchConfigurationSoapOut** WSDL message specifies the response to the **GetDiscoverySearchConfigurationSoapIn** request message specified in section [3.1.4.1.1.1](#).

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

```
<wsdl:message name="GetDiscoverySearchConfigurationSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetDiscoverySearchConfigurationResult"
element="m:GetDiscoverySearchConfigurationResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

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

A successful **GetDiscoverySearchConfiguration** request, as specified in section [3.1.4.1.2.1](#) returns a **GetDiscoverySearchConfigurationResponse** element with the **ResponseClass** attribute set to "Success". The **ResponseCode** element of the **GetDiscoverySearchConfigurationResponse** element is set to "NoError".

If the **GetDiscoverySearchConfiguration** request is not successful, it returns a **GetDiscoverySearchConfigurationResponse** element with the **ResponseClass** attribute set to "Error". The **ResponseCode** element of the **GetDiscoverySearchConfigurationResponse** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.3.23.

3.1.4.1.2 Elements

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

Element	Description
GetDiscoverySearchConfiguration	The input data for the GetDiscoverySearchConfiguration WSDL operation .
GetDiscoverySearchConfigurationResponse	The result data for the GetDiscoverySearchConfiguration WSDL operation .

3.1.4.1.2.1 GetDiscoverySearchConfiguration

The **GetDiscoverySearchConfiguration** element specifies the input data for the **GetDiscoverySearchConfiguration WSDL operation**.

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

3.1.4.1.2.2 GetDiscoverySearchConfigurationResponse

The **GetDiscoverySearchConfigurationResponse** element specifies the result data for the **GetDiscoverySearchConfiguration WSDL operation**.

```
<xs:element name="GetDiscoverySearchConfigurationResponse"
type="m:GetDiscoverySearchConfigurationResponseMessageType"
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
GetDiscoverySearchConfigurationType	Specifies a request to retrieve the search configuration.
GetDiscoverySearchConfigurationResponseMessageType	Specifies the response message for a GetDiscoverySearchConfiguration operation (section 3.1.4.1).
ArrayOfDiscoverySearchConfigurationType	Specifies an array of DiscoverySearchConfigurationType complex types (section 3.1.4.1.3.4) returned from the GetDiscoverySearchConfiguration operation.
DiscoverySearchConfigurationType	Specifies the search configuration returned from the GetDiscoverySearchConfiguration operation.

3.1.4.1.3.1 GetDiscoverySearchConfigurationType

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

The **GetDiscoverySearchConfigurationType** complex type specifies a request to retrieve the search configuration. This type extends the **BaseRequestType** complex type, as described in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="GetDiscoverySearchConfigurationType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchId" type="xs:string"/>
        <xs:element minOccurs="0" name="ExpandGroupMembership" type="xs:boolean"/>
        <xs:element minOccurs="0" name="InPlaceHoldConfigurationOnly" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

SearchId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the identifier of the search.

ExpandGroupMembership: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that specifies whether to expand the group membership. The value "true" specifies extending the group membership.

InPlaceHoldConfigurationOnly: An element of type **string** that specifies whether to include the in-place hold configuration. The value "true" specifies that the in-place hold configuration is included.

3.1.4.1.3.2 GetDiscoverySearchConfigurationResponseType

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

The **GetDiscoverySearchConfigurationResponseType** complex type specifies the response message for a **GetDiscoverySearchConfiguration** operation, as specified in section [3.1.4.1](#). This type extends the **ResponseType** complex type, as specified by [\[MS-OXWSCDATA\]](#) section 2.2.4.57.

```
<xs:complexType name="GetDiscoverySearchConfigurationResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseType">
      <xs:sequence>
        <xs:element name="DiscoverySearchConfigurations"
type="t:ArrayOfDiscoverySearchConfigurationType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

DiscoverySearchConfigurations: An element of type **ArrayOfDiscoverySearchConfigurationType**, as defined in section [3.1.4.1.3.3](#), that contains an array of search configurations.

3.1.4.1.3.3 ArrayOfDiscoverySearchConfigurationType

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

The **ArrayOfDiscoverySearchConfigurationType** complex type specifies an array of **DiscoverySearchConfigurationType** complex types, as specified in section [3.1.4.1.3.4](#), returned from the **GetDiscoverySearchConfiguration** operation specified in section [3.1.4.1](#).

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

DiscoverySearchConfiguration: An element of type **DiscoverySearchConfigurationType**, as defined in section [3.1.4.1.3.4](#), that represents the search configuration returned from the **GetDiscoverySearchConfiguration** operation specified in section [3.1.4.1](#).

3.1.4.1.3.4 DiscoverySearchConfigurationType

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

The **DiscoverySearchConfigurationType** complex type specifies the search configuration returned from the **GetDiscoverySearchConfiguration** operation specified in section [3.1.4.1](#).

```
<xs:complexType name="DiscoverySearchConfigurationType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="SearchId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="SearchQuery" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SearchableMailboxes"
  type="t:ArrayOfSearchableMailboxesType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="InPlaceHoldIdentity" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ManagedByOrganization" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

SearchId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the search identifier.

SearchQuery: An element of type **string** that represents the search query.

SearchableMailboxes: An element of type **ArrayOfSearchableMailboxesType**, as defined in section [2.2.4.3](#), that specifies the list of searchable mailboxes.

InPlaceHoldIdentity: An element of type **string** that specifies the identity of the in-place hold.

ManagedByOrganization: An element of type **string** that specifies the managing organization.

3.1.4.1.4 Simple Types

None.

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 GetHoldOnMailboxes

The **GetHoldOnMailboxes** operation retrieves the status of a query-based hold, which is set by using the **SetHoldOnMailboxes** operation, as specified in section [3.1.4.5](#).

```
<wsdl:operation name="GetHoldOnMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetHoldOnMailboxesSoapIn"/>
  <wsdl:output message="m:GetHoldOnMailboxesSoapOut"/>
</wsdl:operation>
```

```
</wsdl:operation>
```

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

```
<wsdl:operation name="GetHoldOnMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetHoldOnMailboxes"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <wsdl:input>
      <soap:header message="m:GetHoldOnMailboxesSoapIn" part="RequestVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:GetHoldOnMailboxesSoapIn" part="ManagementRole" 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="GetHoldOnMailboxesResult"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:GetHoldOnMailboxesSoapOut" part="ServerVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </wsdl:output>
  </wsdl:operation>
```

The client sends a **GetHoldOnMailboxesSoapIn** request WSDL message, as specified in section [3.1.4.2.1.1](#) and the server responds with a **GetHoldOnMailboxesSoapOut** response, as specified in section [3.1.4.2.1.2](#).

3.1.4.2.1 Messages

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

Message	Description
GetHoldOnMailboxesSoapIn	Specifies the request to retrieve the status of a query-based hold.
GetHoldOnMailboxesSoapOut	Specifies the response to the GetHoldOnMailboxesSoapIn request specified in section 3.1.4.2.1.1 .

3.1.4.2.1.1 GetHoldOnMailboxesSoapIn

The **GetHoldOnMailboxesSoapIn** WSDL message specifies the request to retrieve the status of a query-based hold.

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

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

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

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

Part name	Element/type	Description
request	m:GetHoldOnMailboxes	Specifies the SOAP body of the request to get the status of a query-based hold.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the GetHoldOnMailboxesSoapIn WSDL message.
ManagementRole	t:ManagementRole ([MS-OXWSCDATA] section 2.2.5.7)	Specifies a SOAP header that identifies a user or application role.

3.1.4.2.1.2 GetHoldOnMailboxesSoapOut

The **GetHoldOnMailboxesSoapOut** WSDL message specifies the response to the **GetHoldOnMailboxesSoapIn** request specified in section [3.1.4.2.1.1](#).

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

```
<wsdl:message name="GetHoldOnMailboxesSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetHoldOnMailboxesResult" element="m:GetHoldOnMailboxesResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
GetHoldOnMailboxesResult	m:GetHoldOnMailboxesResponse	Specifies the SOAP body of the response that contains the result of the request.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

A successful **GetHoldOnMailboxes** request, as specified in section [3.1.4.2.2.1](#), returns a **GetHoldOnMailboxesResponse** element with the **ResponseClass** attribute set to "Success". **ResponseCode** element of the **GetHoldOnMailboxesResponse** element is set to "NoError".

If the **GetHoldOnMailboxes** request is not successful, it returns a **GetHoldOnMailboxesResponse** element with the **ResponseClass** attribute set to "Error". The **ResponseCode** element of the **GetHoldOnMailboxesResponse** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.3.23.

3.1.4.2.2 Elements

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

Element	Description
GetHoldOnMailboxes	The input data for the GetHoldOnMailboxes WSDL operation.
GetHoldOnMailboxesResponse	The result data for the GetHoldOnMailboxes WSDL operation.

3.1.4.2.2.1 GetHoldOnMailboxes

The **GetHoldOnMailboxes** element specifies the input data for the **GetHoldOnMailboxes** WSDL operation.

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

3.1.4.2.2.2 GetHoldOnMailboxesResponse

The **GetHoldOnMailboxesResponse** element specifies the result data for the **GetHoldOnMailboxes** WSDL operation.

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

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
GetHoldOnMailboxesType	Specifies a request to retrieve the status of a query-based hold.
GetHoldOnMailboxesResponseMessageType	Specifies the response message for a GetHoldOnMailboxes operation, as specified in section 3.1.4.2 .

3.1.4.2.3.1 GetHoldOnMailboxesType

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

The **GetHoldOnMailboxesType** complex type specifies a request to retrieve the status of query-based holds on mailboxes. The **GetHoldOnMailboxesType** complex type extends the **BaseRequestType** complex type, as described in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

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

```

        <xs:element minOccurs="1" name="HoldId" type="xs:string"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

HoldId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the identifier of the hold to be queried.

3.1.4.2.3.2 GetHoldOnMailboxesResponseMessageType

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

The **GetHoldOnMailboxesResponseMessageType** complex type specifies the response message for a **GetHoldOnMailboxes** operation, as specified in section [3.1.4.2](#). This type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57.

```

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

```

MailboxHoldResult: An element of type **MailboxHoldResultType**, as defined in section [2.2.4.5](#), that represents the object that contains the hold result information.

3.1.4.2.4 Simple Types

None.

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 GetSearchableMailboxes

The **GetSearchableMailboxes** operation retrieves a list of mailboxes on which the client has permission to search or to perform eDiscovery.

```

<wsdl:operation name="GetSearchableMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:GetSearchableMailboxesSoapIn"/>

```

```

    <wsdl:output message="m:GetSearchableMailboxesSoapOut"/>
</wsdl:operation>

```

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

```

<wsdl:operation name="GetSearchableMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetSearchableMailboxes"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <wsdl:input>
      <soap:header message="m:GetSearchableMailboxesSoapIn" part="RequestVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:GetSearchableMailboxesSoapIn" part="ManagementRole" 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="GetSearchableMailboxesResult"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:GetSearchableMailboxesSoapOut" part="ServerVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </wsdl:output>
  </wsdl:operation>

```

The client sends a **GetSearchableMailboxesSoapIn** request WSDL message, as specified in section [3.1.4.3.1.1](#), and the server responds with **GetSearchableMailboxesSoapOut** response, as specified in section [3.1.4.3.1.2](#).

3.1.4.3.1 Messages

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

Message	Description
GetSearchableMailboxesSoapIn	Specifies the request to retrieve searchable mailboxes.
GetSearchableMailboxesSoapOut	Specifies the response to the GetSearchableMailboxesSoapIn request.

3.1.4.3.1.1 GetSearchableMailboxesSoapIn

The **GetSearchableMailboxesSoapIn** WSDL message specifies the request to retrieve searchable mailboxes.

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

```

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

```

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

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

Part name	Element/type	Description
request	m:GetSearchableMailboxes	Specifies the SOAP body of the request to retrieve searchable mailboxes.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the GetSearchableMailboxesSoapIn WSDL message.
ManagementRole	t:ManagementRole ([MS-OXWSCDATA] section 2.2.5.7)	Specifies a SOAP header that identifies a user or application role.

3.1.4.3.1.2 GetSearchableMailboxesSoapOut

The **GetSearchableMailboxesSoapOut** WSDL message specifies the response to the **GetSearchableMailboxesSoapIn** request specified in section [3.1.4.3.1.1](#).

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

```
<wsdl:message name="GetSearchableMailboxesSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetSearchableMailboxesResult" element="m:GetSearchableMailboxesResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

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

A successful **GetSearchableMailboxes** request, as specified in section [3.1.4.3.2.1](#), returns a **GetSearchableMailboxesResponse** element with the **ResponseClass** attribute set to "Success". The **ResponseCode** element of the **GetSearchableMailboxesResponse** element is set to "NoError".

If the **GetSearchableMailboxes** request is not successful, it returns a **GetSearchableMailboxesResponse** element with the **ResponseClass** attribute set to "Error". The

ResponseCode element of the **GetSearchableMailboxesResponse** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.3.23.

3.1.4.3.2 Elements

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

Element	Description
GetSearchableMailboxes	The input data for the GetSearchableMailboxes WSDL operation.
GetSearchableMailboxesResponse	The result data for the GetSearchableMailboxes WSDL operation.

3.1.4.3.2.1 GetSearchableMailboxes

The **GetSearchableMailboxes** element specifies the input data for the **GetSearchableMailboxes** WSDL operation.

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

3.1.4.3.2.2 GetSearchableMailboxesResponse

The **GetSearchableMailboxesResponse** element specifies the result data for the **GetSearchableMailboxes** WSDL operation.

```
<xs:element name="GetSearchableMailboxesResponse"
type="m:GetSearchableMailboxesResponseMessageType"
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
GetSearchableMailboxesType	Specifies a request to retrieve searchable mailboxes.
GetSearchableMailboxesResponseMessageType	Specifies the response for a GetSearchableMailboxes operation, as specified in section 3.1.4.3 .

3.1.4.3.3.1 GetSearchableMailboxesType

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

The **GetSearchableMailboxesType** complex type specifies a request to retrieve mailboxes that the client has permission to search or perform eDiscovery on.

```

<xs:complexType name="GetSearchableMailboxesType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchFilter" type="xs:string"/>
        <xs:element minOccurs="0" name="ExpandGroupMembership" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

SearchFilter: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents a search filter. This element can be empty or contain a specific email address, **display name**, or other property of the mailbox.

ExpandGroupMembership: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether to expand the group membership if the instance is a distribution list. The value "true" specifies expanding the membership.

3.1.4.3.3.2 GetSearchableMailboxesResponseMessageType

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

The **GetSearchableMailboxesResponseMessageType** complex type specifies the response for a **GetSearchableMailboxes** operation specified in section [3.1.4.3](#). This type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57.

```

<xs:complexType name="GetSearchableMailboxesResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="SearchableMailboxes" type="t:ArrayOfSearchableMailboxesType"/>
        <xs:element minOccurs="0" name="FailedMailboxes"
type="t:ArrayOfFailedSearchMailboxesType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

SearchableMailboxes: An element of type **ArrayOfSearchableMailboxesType**, as defined in section [2.2.4.3](#), that represents the object that contains the mailboxes or distribution list that match the query filter.

FailedMailboxes: An element of type **ArrayOfFailedSearchMailboxesType**, as defined in section [2.2.4.1](#), that contains a list of mailboxes that failed the query.

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 SearchMailboxes

The **SearchMailboxes** operation searches for items in the specified mailboxes that match query keywords.

```
<wsdl:operation name="SearchMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:SearchMailboxesSoapIn"/>
  <wsdl:output message="m:SearchMailboxesSoapOut"/>
</wsdl:operation>
```

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

```
<wsdl:operation name="SearchMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SearchMailboxes"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <wsdl:input>
      <soap:header message="m:SearchMailboxesSoapIn" part="RequestVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
      <soap:header message="m:SearchMailboxesSoapIn" part="ManagementRole" 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="SearchMailboxesResult"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
      <soap:header message="m:SearchMailboxesSoapOut" part="ServerVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:output>
  </wsdl:operation>
```

The client sends a **SearchMailboxesSoapIn** request WSDL message, as specified in section [3.1.4.4.1.1](#), and the server responds with a **SearchMailboxesSoapOut** response, as specified in section [3.1.4.4.1.2](#).

3.1.4.4.1 Messages

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

Message	Description
SearchMailboxesSoapIn	Specifies the request to search mailboxes.
SearchMailboxesSoapOut	Specifies the response to the SearchMailboxesSoapIn request.

3.1.4.4.1.1 SearchMailboxesSoapIn

The **SearchMailboxesSoapIn** WSDL message specifies the request to search mailboxes.

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

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

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

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

Part name	Element/type	Description
request	m:SearchMailboxes	Specifies the SOAP body of the request to search mailboxes.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the SearchMailboxesSoapIn WSDL message.
ManagementRole	t:ManagementRole ([MS-OXWSCDATA] section 2.2.5.7)	Specifies a SOAP header that identifies a user or application role.

3.1.4.4.1.2 SearchMailboxesSoapOut

The **SearchMailboxesSoapOut** WSDL message specifies the response to the **SearchMailboxesSoapIn** request specified in section [3.1.4.3.1.1](#).

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

```
<wsdl:message name="SearchMailboxesSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="SearchMailboxesResult" element="m:SearchMailboxesResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

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

Part name	Element/type	Description
	2.2.5.10)	

A successful **SearchMailboxes** request, as specified in section [3.1.4.4.2.1](#), returns a **SearchMailboxesResponse** element with the **ResponseClass** attribute set to "Success". The **ResponseCode** element of the **SearchMailboxesResponse** element is set to "NoError".

If the **SearchMailboxes** request is not successful, it returns a **SearchMailboxesResponse** element with the **ResponseClass** attribute set to "Error". The **ResponseCode** element of the **SearchMailboxesResponse** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.3.23.

3.1.4.4.2 Elements

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

Element	Description
SearchMailboxes	The input data for the SearchMailboxes WSDL operation.
SearchMailboxesResponse	The result data for the SearchMailboxes WSDL operation.

3.1.4.4.2.1 SearchMailboxes

The **SearchMailboxes** element specifies the input data for the **SearchMailboxes** WSDL operation.

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

3.1.4.4.2.2 SearchMailboxesResponse

The **SearchMailboxesResponse** element specifies the result data for the **SearchMailboxes** WSDL operation.

```
<xs:element name="SearchMailboxesResponse" type="m:SearchMailboxesResponseType"
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.

Complex type	Description
SearchMailboxesType	Specifies the format and content of the query response.
NonEmptyArrayOfMailboxQueriesType	Specifies an array of mailbox queries.
MailboxQueryType	Specifies the type of the mailbox query.

Complex type	Description
NonEmptyArrayOfMailboxSearchScopesType	Specifies an array of mailbox search scopes.
MailboxSearchScopeType	Specifies a mailbox search scope.
PreviewItemResponseShapeType	Specifies the response format of a preview item, that is, the base shape plus properties.
NonEmptyArrayOfExtendedFieldURIsType	Specifies an array of extended property names.
SearchMailboxesResponseMessageType	Specifies a response message for the SearchMailboxes operation specified in section 3.1.4.4 .
SearchMailboxesResultType	Specifies the result from the SearchMailboxes operation.
ArrayOfKeywordStatisticsSearchResultsType	Specifies an array of keyword statistics in the search result.
KeywordStatisticsSearchResultType	Specifies a keyword statistics search result.
ArrayOfSearchPreviewItemsType	Specifies an array of search preview items.
SearchPreviewItemType	Specifies a search preview item.
PreviewItemMailboxType	Specifies the mailbox information in a preview item.
ArrayOfSearchRefinerItemsType	Specifies an array of search refiner items.
SearchRefinerItemType	Specifies a search refiner item.
ArrayOfMailboxStatisticsItemsType	Specifies an array of mailbox statistics.
MailboxStatisticsItemType	Specifies a mailbox statistic.
SearchMailboxesResponseType	Specifies the response for a SearchMailboxes operation.

3.1.4.4.3.1 SearchMailboxesType

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

The **SearchMailboxesType** complex type specifies the content and format of the result. This type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="SearchMailboxesType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" name="SearchQueries"
type="t:NonEmptyArrayOfMailboxQueriesType"/>
        <xs:element minOccurs="1" name="ResultType" type="t:SearchResultType"/>
        <xs:element minOccurs="0" name="PreviewItemResponseShape"
type="t:PreviewItemResponseShapeType"/>
        <xs:element minOccurs="0" name="SortBy" type="t:FieldOrderType"/>
        <xs:element minOccurs="0" name="Language" type="xs:string"/>
        <xs:element minOccurs="0" name="Deduplication" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

    <xs:element minOccurs="0" name="PageSize" type="xs:int"/>
    <xs:element minOccurs="0" name="PageItemReference" type="xs:string"/>
    <xs:element minOccurs="0" name="PageDirection" type="t:SearchPageDirectionType"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

SearchQueries: An element of type **NonEmptyArrayOfMailboxQueriesType**, as defined in section [3.1.4.4.3.2](#), that represents a set of mailbox search scopes.

ResultType: An element of type **SearchResultType**, as defined in section [3.1.4.4.4.2](#), that represents an enumeration type to indicate the type of search result.

PreviewItemResponseShape: An element of type **PreviewItemResponseShapeType**, as defined in section [3.1.4.4.3.6](#), that represents what properties are returned for the preview search result.

SortBy: An element of type **FieldOrderType**, as defined in [\[MS-OXWSSRCH\]](#) section 3.1.4.2.3.6, that specifies a single field by which to sort results and specifies the direction of the sort.

Language: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the query language, for example, "en-us".

Deduplication: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether to remove duplicates from the search result.

PageSize: An element of type **int**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.17, that represents the total number of items shown on a preview page.

PageItemReference: An element of type **string** that is used internally for paging implementation.

PageDirection: An element of type **SearchPageDirectionType**, as defined in section [3.1.4.4.4.4](#), that represents the paging direction; for example, "previous" or "next".

3.1.4.4.3.2 NonEmptyArrayOfMailboxQueriesType

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

The **NonEmptyArrayOfMailboxQueriesType** complex type specifies an array of mailbox queries.

```

<xs:complexType name="NonEmptyArrayOfMailboxQueriesType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="MailboxQuery"
      type="t:MailboxQueryType"/>
  </xs:sequence>
</xs:complexType>

```

MailboxQuery: An element of type **MailboxQueryType**, as defined in section [3.1.4.4.3.3](#), that represents a combination of a query and a list of search scopes.

3.1.4.4.3.3 MailboxQueryType

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

The **MailboxQueryType** complex type specifies the type of the mailbox query.

```
<xs:complexType name="MailboxQueryType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Query" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="MailboxSearchScopes"
type="t:NonEmptyArrayOfMailboxSearchScopesType"/>
  </xs:sequence>
</xs:complexType>
```

Query: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that identifies a search query.

MailboxSearchScopes: An element of type **NonEmptyArrayOfMailboxSearchScopesType**, as defined in section [3.1.4.4.3.4](#), that contains a list of one or more **MailboxSearchScopeType** complex types, as defined in section [3.1.4.4.3.5](#).

3.1.4.4.3.4 NonEmptyArrayOfMailboxSearchScopesType

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

The **NonEmptyArrayOfMailboxSearchScopesType** complex type specifies an array of mailbox search scopes.

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

MailboxSearchScope: An element of type **MailboxSearchScopeType**, as defined in section [3.1.4.4.3.5](#), that represents a combination of a mailbox and a search scope.

3.1.4.4.3.5 MailboxSearchScopeType

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

The **MailboxSearchScopeType** complex type specifies a query and a set of mailboxes.

```
<xs:complexType name="MailboxSearchScopeType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="SearchScope"
type="t:MailboxSearchLocationType"/>
  </xs:sequence>
</xs:complexType>
```

Mailbox: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that contains an identifier for the mailbox.

SearchScope: An element of type **MailboxSearchLocationType**, as defined in section [3.1.4.4.4.1](#), that represents the search scope.

3.1.4.4.3.6 PreviewItemResponseShapeType

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

The **PreviewItemResponseShapeType** complex type specifies the response format of a preview item; that is, the base shape plus properties.

```
<xs:complexType name="PreviewItemResponseShapeType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="BaseShape"
      type="t:PreviewItemBaseShapeType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="AdditionalProperties"
      type="t:NonEmptyArrayOfExtendedFieldURIsType"/>
  </xs:sequence>
</xs:complexType>
```

BaseShape: An element of type **PreviewItemBaseShapeType**, as defined in section [3.1.4.4.4.3](#), that represents either the default preview with all properties returned or a compact preview with fewer properties returned.

AdditionalProperties: An element of type **NonEmptyArrayOfExtendedFieldURIsType**, as defined in section [3.1.4.4.3.7](#), that represents additional item properties to be returned.

3.1.4.4.3.7 NonEmptyArrayOfExtendedFieldURIsType

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

The **NonEmptyArrayOfExtendedFieldURIsType** complex type specifies an array of extended property names.

```
<xs:complexType name="NonEmptyArrayOfExtendedFieldURIsType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:choice maxOccurs="unbounded">
    <xs:element name="ExtendedFieldURI" type="t:PathToExtendedFieldType"/>
  </xs:choice>
</xs:complexType>
```

ExtendedFieldURI: An element of type **PathToExtendedFieldType**, as defined in [\[MS-OXWSXPROP\]](#) section 2.1.6, that represents the extended property name.

3.1.4.4.3.8 SearchMailboxesResponseType

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

The **SearchMailboxesResponseType** complex type specifies a response for a **SearchMailboxes** operation, as specified in section [3.1.4.4](#). This type extends the **BaseResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.16.

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

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

3.1.4.4.3.9 SearchMailboxesResponseMessageType

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

The **SearchMailboxesResponseMessageType** complex type specifies a response message for the **SearchMailboxes** operation specified in section [3.1.4.4](#). This type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57.

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

SearchMailboxesResult: An element of type **SearchMailboxesResultType**, as defined in section [3.1.4.4.3.10](#), that represents the result of a **SearchMailboxes** operation, as specified in section [3.1.4.4](#).

3.1.4.4.3.10 SearchMailboxesResultType

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

The **SearchMailboxesResultType** complex type specifies the result from the **SearchMailboxes** operation specified in section [3.1.4.4](#).

```
<xs:complexType name="SearchMailboxesResultType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" name="SearchQueries"
type="t:NonEmptyArrayOfMailboxQueriesType"/>
    <xs:element minOccurs="1" name="ResultType" type="t:SearchResultType"/>
    <xs:element minOccurs="1" name="ItemCount" type="xs:long"/>
    <xs:element minOccurs="1" name="Size" type="xs:long"/>
    <xs:element minOccurs="1" name="PageItemCount" type="xs:int"/>
    <xs:element minOccurs="1" name="PageItemSize" type="xs:long"/>
    <xs:element minOccurs="0" name="KeywordStats"
type="t:ArrayOfKeywordStatisticsSearchResultsType"/>
    <xs:element minOccurs="0" name="Items" type="t:ArrayOfSearchPreviewItemsType"/>
    <xs:element minOccurs="0" name="FailedMailboxes"
type="t:ArrayOfFailedSearchMailboxesType"/>
    <xs:element minOccurs="0" name="Refiners" type="t:ArrayOfSearchRefinerItemsType"/>
    <xs:element minOccurs="0" name="MailboxStats"
type="t:ArrayOfMailboxStatisticsItemsType"/>
  </xs:sequence>
</xs:complexType>
```

SearchQueries: An element of type **NonEmptyArrayOfMailboxQueriesType** complex, as defined in section [3.1.4.4.3.2](#), that contains a list of mailboxes plus the query to be searched.

ResultType: An element of type **SearchResultType**, as defined in section [3.1.4.4.2](#), that contains the type of search, either statistics only or preview only.

ItemCount: An element of type **long**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.16, that contains a value for the total number of items in a search result.

Size: An element of type **long** that contains the size of the item.

PageItemCount: An element of type **int**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.17, that contains the number of pages returned in a search result pagination.

PageItemSize: An element of type **long** that contains the number of items to return in a search result pagination.

KeywordStats: An element of type **ArrayOfKeywordStatisticsSearchResultsType**, as defined in section [3.1.4.4.3.11](#), that contains a list of one or more **KeywordStat** elements.

Items: An element of type **ArrayOfSearchPreviewItemsType**, as defined in section [3.1.4.4.3.13](#), that contains a list of items available for preview.

FailedMailboxes: An element of type **ArrayOfFailedSearchMailboxesType**, as defined in section [2.2.4.1](#), that contains a list of mailboxes that failed the search.

Refiners: An element of type **ArrayOfSearchRefinerItemsType**, as defined in section [3.1.4.4.3.16](#), that contains a list of one or more **Refiner** elements.

MailboxStats: An element of type **ArrayOfMailboxStatisticsItemsType**, as defined in section [3.1.4.4.3.18](#), that contains a list of one or more mailbox statistics.

3.1.4.4.3.11 ArrayOfKeywordStatisticsSearchResultsType

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

The **ArrayOfKeywordStatisticsSearchResultsType** complex type specifies an array of keyword statistics in the search result.

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

KeywordStat: An element of type **KeywordStatisticsSearchResultType**, as defined in section [3.1.4.4.3.12](#), that represents keyword statistics information.

3.1.4.4.3.12 KeywordStatisticsSearchResultType

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

The **KeywordStatisticsSearchResultType** complex type specifies a keyword statistics search result.

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

```

<xs:sequence>
  <xs:element minOccurs="1" maxOccurs="1" name="Keyword" type="xs:string"/>
  <xs:element minOccurs="1" maxOccurs="1" name="ItemHits" type="xs:int"/>
  <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long"/>
</xs:sequence>
</xs:complexType>

```

Keyword: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the word to be searched for.

ItemHits: An element of type **int**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.17, that represents the number of times that an item appears.

Size: An element of type **long**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.16, that represents the total number of items that have the keyword.

3.1.4.4.3.13 ArrayOfSearchPreviewItemsType

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

The **ArrayOfSearchPreviewItemsType** complex type specifies an array of search preview items.

```

<xs:complexType name="ArrayOfSearchPreviewItemsType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SearchPreviewItem"
      type="t:SearchPreviewItemType"/>
  </xs:sequence>
</xs:complexType>

```

SearchPreviewItem: An element of type **SearchPreviewItemType**, as defined in section [3.1.4.4.3.14](#), that represents a search preview item.

3.1.4.4.3.14 SearchPreviewItemType

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

The **SearchPreviewItemType** complex type specifies a search preview item.

```

<xs:complexType name="SearchPreviewItemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Id" type="t:ItemIdType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Mailbox" type="t:PreviewItemMailboxType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ParentId" type="t:ItemIdType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ItemClass" type="t:ItemClassType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UniqueHash" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SortValue" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="OwaLink" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Sender" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ToRecipients"
      type="t:ArrayOfSmtptAddressType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CcRecipients"
      type="t:ArrayOfSmtptAddressType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="BccRecipients"
      type="t:ArrayOfSmtptAddressType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CreatedTime" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>

```



```

<xs:element minOccurs="0" maxOccurs="1" name="ReceivedTime" type="xs:dateTime"/>
<xs:element minOccurs="0" maxOccurs="1" name="SentTime" type="xs:dateTime"/>
<xs:element minOccurs="0" maxOccurs="1" name="Subject" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="Size" type="xs:long"/>
<xs:element minOccurs="0" maxOccurs="1" name="Preview" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="Importance"
type="t:ImportanceChoicesType"/>
<xs:element minOccurs="0" maxOccurs="1" name="Read" type="xs:boolean"/>
<xs:element minOccurs="0" maxOccurs="1" name="HasAttachment" type="xs:boolean"/>
<xs:element minOccurs="0" maxOccurs="1" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedPropertyType"/>
</xs:sequence>
</xs:complexType>

```

Id: An element of type **ItemIdType**, as defined in [\[MS-OXWSCORE\]](#) section 2.2.4.19, that represents the item identifier.

Mailbox: An element of the **PreviewItemMailboxType** complex type, as defined in section [3.1.4.4.3.15](#), that contains an identifier for the mailbox.

ParentId: An element of type **ItemIdType** that contains the identifier of the parent of the item.

ItemClass: An element of type **ItemClassType**, as defined in [\[MS-OXWSCORE\]](#) section 2.2.5.4, that contains the message class of the item.

UniqueHash: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that contains a unique hash value used to identify and eliminate duplicates.

SortValue: An element of type **string** that contains a value used for sorting.

OwaLink: An element of type **string** that contains the link to preview the item.

Sender: An element of type **string** that contains the address of the person who sent the item.

ToRecipients: An element of type **ArrayOfSmtptAddressType**, as defined in [\[MS-OXWSMTHR\]](#) section 3.1.4.4.3.1, that contains a list of recipients to whom the item was sent.

CcRecipients: An element of type **ArrayOfSmtptAddressType** that contains a list of recipients who are carbon copied for the item.

BccRecipients: An element of type **ArrayOfSmtptAddressType** that contains a list of recipients who are blind carbon copied for the item.

CreatedTime: An element of type **dateTime**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.7, that contains the time at which the item was created.

ReceivedTime: An element of type **dateTime** that contains the time at which the item was received.

SentTime: An element of type **dateTime** that contains the time at which the item was sent.

Subject: An element of type **string** that contains the subject of a message item.

Size: An element of type **long**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.16, that contains the size of the item.

Preview: An element of type **string** that is not used and always returns an empty string.

Importance: An element of type **ImportanceChoicesType**, as defined in [\[MS-OXWSCORE\]](#) section 2.2.5.3, that indicates the urgency of the item. The possible values are "High", "Normal", and "Low".

Read: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether an item has been read.

HasAttachment: An element of type **boolean** that indicates whether the item has attachments.

ExtendedProperties: A element of type **NonEmptyArrayOfExtendedPropertyType**, as defined in [\[MS-OXWSXPROP\]](#) section 2.1.3, that contains an array of additional properties.

3.1.4.4.3.15 PreviewItemMailboxType

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

The **PreviewItemMailboxType** complex type specifies the mailbox information in a preview item.

```
<xs:complexType name="PreviewItemMailboxType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="MailboxId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="PrimarySmtpAddress" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

MailboxId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that contains an identifier for the mailbox.

PrimarySmtpAddress: An element of type **string** that represents the primary SMTP address of the mailbox.

3.1.4.4.3.16 ArrayOfSearchRefinerItemsType

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

The **ArrayOfSearchRefinerItemsType** complex type specifies an array of search refiner items.

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

Refiner: An element of the **SearchRefinerItemType** complex type, as defined in section [3.1.4.4.3.17](#), that represents a search refiner.

3.1.4.4.3.17 SearchRefinerItemType

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

The **SearchRefinerItemType** complex type specifies a search refiner item.

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

```

<xs:sequence>
  <xs:element minOccurs="1" maxOccurs="1" name="Name" type="xs:string"/>
  <xs:element minOccurs="1" maxOccurs="1" name="Value" type="xs:string"/>
  <xs:element minOccurs="1" maxOccurs="1" name="Count" type="xs:long"/>
  <xs:element minOccurs="1" maxOccurs="1" name="Token" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

Name: An element of type **string**, as defined in [XMLSCHEMA2](#) section 3.2.1, that represents the name of the search refiner.

Value: An element of type **string** that represents the search refiner value.

Count: An element of type **long**, as defined in [XMLSCHEMA2](#) section 3.3.16, that represents the item count in the search refiner.

Token: An element of type **string** that represents the search refiner token.

3.1.4.4.3.18 ArrayOfMailboxStatisticsItemsType

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

The **ArrayOfMailboxStatisticsItemsType** complex type specifies an array of mailbox statistics.

```

<xs:complexType name="ArrayOfMailboxStatisticsItemsType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MailboxStat"
      type="t:MailboxStatisticsItemType"/>
  </xs:sequence>
</xs:complexType>

```

MailboxStat: A element of type **MailboxStatisticsItemType**, as defined in section [3.1.4.4.3.19](#), that contains a value for the mailbox statistic.

3.1.4.4.3.19 MailboxStatisticsItemType

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

The **MailboxStatisticsItemType** complex type specifies a mailbox statistic.

```

<xs:complexType name="MailboxStatisticsItemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="MailboxId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ItemCount" type="xs:long"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long"/>
  </xs:sequence>
</xs:complexType>

```

MailboxId: An element of type **string**, as defined in [XMLSCHEMA2](#) section 3.2.1, that contains an identifier for the mailbox.

DisplayName: An element of type **string** that specifies the name of the mailbox.

ItemCount: An element of type **long**, as defined in [\[XMLSCHEMA2\]](#) section 3.3.16, that contains the total number of items in a search result.

Size: An element of type **long** that contains the size of the mailbox items returned from a search.

3.1.4.4.4 Simple Types

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

Simple type	Description
MailboxSearchLocationType	Specifies the location to be searched.
SearchResultType	Specifies a search result.
PreviewItemBaseShapeType	Specifies whether an item is previewed with all its properties or it is compacted.
SearchPageDirectionType	Specifies the direction in which to search.

3.1.4.4.4.1 MailboxSearchLocationType

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

The **MailboxSearchLocationType** simple type specifies the location to be searched.

```
<xs:simpleType name="MailboxSearchLocationType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="PrimaryOnly"/>
    <xs:enumeration value="ArchiveOnly"/>
    <xs:enumeration value="All"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **MailboxSearchLocationType** simple type.

Value	Meaning
PrimaryOnly	Search in primary mailbox only.
ArchiveOnly	Search in archive mailbox only.
All	Search in all mailboxes.

3.1.4.4.4.2 SearchResultType

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

The **SearchResultType** simple type specifies a search result.

```
<xs:simpleType name="SearchResultType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="StatisticsOnly"/>
    <xs:enumeration value="PreviewOnly"/>
  </xs:restriction>
</xs:simpleType>
```

```

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

```

The following table specifies the allowable values for the **SearchResultType** simple type.

Value	Meaning
StatisticsOnly	Perform statistics search only.
PreviewOnly	Perform preview search only.

3.1.4.4.4.3 PreviewItemBaseShapeType

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

The **PreviewItemBaseShapeType** simple type specifies whether an item is previewed with all its properties or it is compacted.

```

<xs:simpleType name="PreviewItemBaseShapeType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Default"/>
    <xs:enumeration value="Compact"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **PreviewItemBaseShapeType** simple type.

Value	Meaning
Default	Indicates the default view with all properties for the item preview.
Compact	Indicates a compact view with only a few properties for the item preview.

3.1.4.4.4.4 SearchPageDirectionType

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

The **SearchPageDirectionType** simple type specifies the direction in which to search.

```

<xs:simpleType name="SearchPageDirectionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Previous"/>
    <xs:enumeration value="Next"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for the **SearchPageDirectionType** simple type.

Value	Meaning
Previous	Navigate to the previous page.

Value	Meaning
Next	Navigate to the next page.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 SetHoldOnMailboxes

The **SetHoldOnMailboxes** operation sets a query-based hold on mailboxes.

```
<wsdl:operation name="SetHoldOnMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:SetHoldOnMailboxesSoapIn"/>
  <wsdl:output message="m:SetHoldOnMailboxesSoapOut"/>
</wsdl:operation>
```

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

```
<wsdl:operation name="SetHoldOnMailboxes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetHoldOnMailboxes"
    xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <wsdl:input>
      <soap:header message="m:SetHoldOnMailboxesSoapIn" part="RequestVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:SetHoldOnMailboxesSoapIn" part="ManagementRole" 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="SetHoldOnMailboxesResult"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:SetHoldOnMailboxesSoapOut" part="ServerVersion" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      </wsdl:output>
    </wsdl:operation>
```

The client sends a **SetHoldOnMailboxesSoapIn** request WSDL message, as specified in section [3.1.4.5.1.1](#), and the server responds with a **SetHoldOnMailboxesSoapOut** response, as specified in section [3.1.4.5.1.2](#).

3.1.4.5.1 Messages

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

Message	Description
SetHoldOnMailboxesSoapIn	Specifies the request to set a hold on mailboxes.
SetHoldOnMailboxesSoapOut	Specifies the response to the SetHoldOnMailboxesSoapIn request specified in section 3.1.4.5.1.1 .

3.1.4.5.1.1 SetHoldOnMailboxesSoapIn

The **SetHoldOnMailboxesSoapIn** WSDL message specifies the request to set a hold on mailboxes.

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

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

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

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

Part name	Element/type	Description
request	m:SetHoldOnMailboxes	Specifies the SOAP body of the request to set a hold on mailboxes.
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the SetHoldOnMailboxesSoapIn WSDL message.
ManagementRole	t:ManagementRole ([MS-OXWSCDATA] section 2.2.5.7)	Specifies a SOAP header that identifies a user or application role.

3.1.4.5.1.2 SetHoldOnMailboxesSoapOut

The **SetHoldOnMailboxesSoapOut** WSDL message specifies the response to the **SetHoldOnMailboxesSoapIn** request specified in section [3.1.4.5.1.1](#).

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

```
<wsdl:message name="SetHoldOnMailboxesSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="SetHoldOnMailboxesResult" element="m:SetHoldOnMailboxesResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
SetHoldOnMailboxesResult	m:SetHoldOnMailboxesResponse	Specifies the SOAP body of the response that contains the result of the request.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

A successful **SetHoldOnMailboxes** request, as specified in section [3.1.4.5.2.1](#), returns a **SetHoldOnMailboxesResponse** element with the **ResponseClass** attribute set to "Success". The **ResponseCode** element of the **SetHoldOnMailboxesResponse** element is set to "NoError".

If the **SetHoldOnMailboxes** request is not successful, it returns a **SetHoldOnMailboxesResponse** element with the **ResponseClass** attribute set to "Error". The **ResponseCode** element of the **SetHoldOnMailboxesResponse** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.3.23.

3.1.4.5.2 Elements

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

Element	Description
SetHoldOnMailboxes	The input data for the SetHoldOnMailboxes WSDL operation.
SetHoldOnMailboxesResponse	The result data for the SetHoldOnMailboxes WSDL operation.

3.1.4.5.2.1 SetHoldOnMailboxes

The **SetHoldOnMailboxes** element specifies the input data for the **SetHoldOnMailboxes** WSDL operation.

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

3.1.4.5.2.2 SetHoldOnMailboxesResponse

The **SetHoldOnMailboxesResponse** element specifies the result data for the **SetHoldOnMailboxes** WSDL operation.

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

3.1.4.5.3 Complex Types

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

Complex type	Description
SetHoldOnMailboxesType	Specifies a request to set a hold on mailboxes.
SetHoldOnMailboxesResponseMessageType	Specifies the response message for a SetHoldOnMailboxes operation, as specified in section 3.1.4.5 .

3.1.4.5.3.1 SetHoldOnMailboxesType

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

The **SetHoldOnMailboxesType** complex type specifies a request to set a hold on mailboxes. This type extends the **BaseRequestType** complex type, as described in [\[MS-OXWSCDATA\]](#) section 2.2.4.15.

```
<xs:complexType name="SetHoldOnMailboxesType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" name="ActionType" type="t:HoldActionType"/>
        <xs:element minOccurs="1" name="HoldId" type="xs:string"/>
        <xs:element minOccurs="1" name="Query" type="xs:string"/>
        <xs:element minOccurs="0" name="Mailboxes" type="t:ArrayOfStringsType"/>
        <xs:element minOccurs="0" name="Language" type="xs:string"/>
        <xs:element minOccurs="0" name="IncludeNonIndexableItems" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Deduplication" type="xs:boolean"/>
        <xs:element minOccurs="0" name="InPlaceHoldIdentity" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ActionType: An element of type **HoldActionType**, as defined in section [3.1.4.5.4.1](#) that represents the type of action.

HoldId: An element of type **string**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.1, that represents the identifier of the hold.

Query: An element of type **string** that represents a query.

Mailboxes: An element of type **ArrayOfStringsType**, as defined in [\[MS-OXWSCDATA\]](#) section 2.2.4.11, that represents the set of mailboxes to which the query-based hold will apply.

Language: An element of type **string** that represents the language of the query, for example, "en-us".

IncludeNonIndexableItems: An element of type **boolean**, as defined in [\[XMLSCHEMA2\]](#) section 3.2.2, that indicates whether to include items that cannot be indexed.

Deduplication: An element of type **boolean** that indicates whether to remove duplicates from the search result.

InPlaceHoldIdentity: An element of type **string** that specifies the identity of a hold that preserves the mailbox items.

3.1.4.5.3.2 SetHoldOnMailboxesResponseMessageType

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

The **SetHoldOnMailboxesResponseMessageType** complex type specifies the response message for a **SetHoldOnMailboxes** operation, as specified in section 3.1.4.5. This type extends the **ResponseMessageType** complex type, as described in [MS-OXWSCDATA] section 2.2.4.57.

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

MailboxHoldResult: An element of type **MailboxHoldResultType** complex type, as defined in section 2.2.4.5, that represents the result of a **SetHoldOnMailboxes** operation, as specified in section 3.1.4.5.

3.1.4.5.4 Simple Types

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

Simple type	Description
HoldActionType	Specifies a hold action.

3.1.4.5.4.1 HoldActionType

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

The **HoldActionType** simple type specifies a hold action.

```
<xs:simpleType name="HoldActionType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Create"/>
    <xs:enumeration value="Update"/>
    <xs:enumeration value="Remove"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **HoldActionType** simple type.

Value	Meaning
Create	The action is placing a hold.
Update	The action is updating a hold.

Value	Meaning
Remove	The action is releasing a hold.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 Setting Holds On Mailboxes

This example of the **SetHoldOnMailboxes** operation, as defined in section [3.1.4.5](#), shows how the client requests the server to set holds on mailboxes. In this example, the client requests holds on two mailboxes and assigns the hold ID "HoldId2".

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope 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="Exchange2013" />
  </soap:Header>
  <soap:Body >
    <m:SetHoldOnMailboxes>
      <m:ActionType>Create</m:ActionType>
      <m:HoldId>HoldId2</m:HoldId>
      <m:Query>test</m:Query>
      <m:Mailboxes>
        <t:String>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=1fa841ff5e4749ba93ecc0fd98c2cadf-Willi</t:String>
        <t:String>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=aed2146adaa24ffc9f0f279917e8de95-Micha</t:String>
      </m:Mailboxes>
      <m:Language>English</m:Language>
      <m:IncludeNonIndexableItems>false</m:IncludeNonIndexableItems>
      <m:Deduplication>>true</m:Deduplication>
    </m:SetHoldOnMailboxes>
  </soap:Body>
</soap:Envelope>
```

The server returns the following successful response to the client.

```
<?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="526"
      MinorBuildNumber="0"
      Version="Exchange2013"
      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">
    <SetHoldOnMailboxesResponse ResponseClass="Success"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>
      <MailboxHoldResult>
        <HoldId
          xmlns="http://schemas.microsoft.com/exchange/services/2006/types">HoldId2</HoldId>
        <Query xmlns="http://schemas.microsoft.com/exchange/services/2006/types">test</Query>
```

```

    <MailboxHoldStatuses
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
    <MailboxHoldStatus>
        <Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=1fa841ff5e4749ba93ecc0fd98c2cadf-Willi</Mailbox>
        <Status>Pending</Status>
        <AdditionalInfo/>
    </MailboxHoldStatus>
    <MailboxHoldStatus>
        <Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=aed2146adaa24ffc9f0f279917e8de95-Micha</Mailbox>
        <Status>Pending</Status>
        <AdditionalInfo/>
    </MailboxHoldStatus>
</MailboxHoldStatuses>
</MailboxHoldResult>
</SetHoldOnMailboxesResponse>
</s:Body>
</s:Envelope>

```

4.2 Getting Mailboxes With Holds

This example of the **GetHoldOnMailboxes** operation, as defined in section [3.1.4.2](#), shows how the client sends a request to the server to get all mailboxes with hold ID "HoldId2".

```

<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope 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="Exchange2013" />
  </soap:Header>
  <soap:Body >
    <m:GetHoldOnMailboxes>
      <m:HoldId>HoldId2</m:HoldId>
    </m:GetHoldOnMailboxes>
  </soap:Body>
</soap:Envelope>

```

The server sends the following successful response to the client. This response returns two mailboxes.

```

<?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="526"
      MinorBuildNumber="0"
      Version="Exchange2013"
      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">
    <GetHoldOnMailboxesResponse ResponseClass="Success"
        xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
        <ResponseCode>NoError</ResponseCode>
        <MailboxHoldResult>
            <HoldId
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">HoldId2</HoldId>
            <Query
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">test</Query>
            <MailboxHoldStatuses
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
                <MailboxHoldStatus>
                    <Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=1fa841ff5e4749ba93ecc0fd98c2cadf-Willi</Mailbox>
                    <Status>OnHold</Status>
                    <AdditionalInfo/>
                </MailboxHoldStatus>
                <MailboxHoldStatus>
                    <Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=aed2146adaa24ffc9f0f279917e8de95-Micha</Mailbox>
                    <Status>OnHold</Status>
                    <AdditionalInfo/>
                </MailboxHoldStatus>
            </MailboxHoldStatuses>
        </MailboxHoldResult>
    </GetHoldOnMailboxesResponse>
</s:Body>
</s:Envelope>

```

4.3 Getting Searchable Mailboxes

This example of the **GetSearchableMailboxes** operation, as defined in section [3.1.4.3](#), shows a request from the client to get searchable mailboxes. The **SearchFilter** element takes a single user name argument. If the user name is a distribution group and if the value of the **ExpandGroupMembership** element is "false", the search results will return the mailbox information for the distribution group. If the **SearchFilter** element is a distribution group and the value of the **ExpandGroupMembership** element is "true", then the search results will return the distribution group member information. The distribution group can also take the user name of a single user.

If the **GetSearchableMailboxes** element is empty, the response will contain all searchable mailboxes. This is the same as having an empty **SearchFilter** element and the **ExpandGroupMembership** element set to "false".

```

<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope 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="Exchange2013" />
    </soap:Header>
    <soap:Body >
        <m:GetSearchableMailboxes>
            <m:SearchFilter>lolgroup</m:SearchFilter>
            <m:ExpandGroupMembership>true</m:ExpandGroupMembership>
        </m:GetSearchableMailboxes>
    </soap:Body>

```

```
</soap:Envelope>
```

This server sends the following successful response for an unexpanded distribution group.

```
<?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="526"
      MinorBuildNumber="0"
      Version="Exchange2013"
      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">
    <GetSearchableMailboxesResponse ResponseClass="Success"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>
      <SearchableMailboxes>
        <SearchableMailbox xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <Guid>33a408fe-1574-4e3b-99f5-6e1e001f3035</Guid>
          <PrimarySmtpAddress>LOLgroup@exhb-
93591dom.extest.microsoft.com</PrimarySmtpAddress>
          <IsExternalMailbox>>false</IsExternalMailbox>
          <ExternalEmailAddress/>
          <DisplayName>LOLgroup</DisplayName>
          <IsMembershipGroup>>true</IsMembershipGroup>
          <ReferenceId>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=85793b958a0b4295b13b8f02b81bf9cc-LOLgroup</ReferenceId>
        </SearchableMailbox>
      </SearchableMailboxes>
    </GetSearchableMailboxesResponse>
  </s:Body>
</s:Envelope>
```

The server sends the following response for an expanded distribution group.

```
<?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="526"
      MinorBuildNumber="0"
      Version="Exchange2013"
      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">
```

```

<GetSearchableMailboxesResponse ResponseClass="Success"
  xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
  <ResponseCode>NoError</ResponseCode>
  <SearchableMailboxes>
    <SearchableMailbox
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <Guid>e5d42cdf-a027-4ec6-986b-6fa0ecadb9f5</Guid>
      <PrimarySmtpAddress>JSmith@exhb-
        93591dom.extest.microsoft.com</PrimarySmtpAddress>
      <IsExternalMailbox>>false</IsExternalMailbox>
      <ExternalEmailAddress/>
      <DisplayName>Julia Smith</DisplayName>
      <IsMembershipGroup>>false</IsMembershipGroup>
      <ReferenceId>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=0a4fc86f888246159405d60956dd02d7-Julia</ReferenceId>
    </SearchableMailbox>
    <SearchableMailbox xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <Guid>45d0ffffb-5013-459a-a34c-52453b30e9ca</Guid>
      <PrimarySmtpAddress>LMoore@exhb-93591dom.extest.microsoft.com</PrimarySmtpAddress>
      <IsExternalMailbox>>false</IsExternalMailbox>
      <ExternalEmailAddress/>
      <DisplayName>Laura Moore</DisplayName>
      <IsMembershipGroup>>false</IsMembershipGroup>
      <ReferenceId>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=2910d8f8222f4374bbf9338d8f9d714b-Laura</ReferenceId>
    </SearchableMailbox>
    <SearchableMailbox xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <Guid>3c620d04-8b33-435e-95be-5b9351599576</Guid>
      <PrimarySmtpAddress>SBrown@exhb-93591dom.extest.microsoft.com</PrimarySmtpAddress>
      <IsExternalMailbox>>false</IsExternalMailbox>
      <ExternalEmailAddress/>
      <DisplayName>Steven Brown</DisplayName>
      <IsMembershipGroup>>false</IsMembershipGroup>
      <ReferenceId>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=35181a742f0e47e392c8201a60d13ecf-Steve</ReferenceId>
    </SearchableMailbox>
  </SearchableMailboxes>
</GetSearchableMailboxesResponse>
</s:Body>
</s:Envelope> -->

```

4.4 Searching Mailboxes

This example of the **SearchMailboxes** operation, as defined in section [3.1.4.4](#), shows a request from the client to the server to search the specified mailboxes.

```

<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope 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="Exchange2013" />
  </soap:Header>
  <soap:Body >
    <m:SearchMailboxes>
      <m:SearchQueries>
        <t:MailboxQuery>

```



```

    <t:Query>Test Item</t:Query>
    <t:MailboxSearchScopes>
      <t:MailboxSearchScope>
        <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=35181a742f0e47e392c8201a60d13ecf-Steve</t:Mailbox>
        <t:SearchScope>All</t:SearchScope>
      </t:MailboxSearchScope>
      <t:MailboxSearchScope>
        <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=f00c9f70539844beb04001d8f40c572e-Antho</t:Mailbox>
        <t:SearchScope>PrimaryOnly</t:SearchScope>
      </t:MailboxSearchScope>
    </t:MailboxSearchScopes>
  </t:MailboxQuery>
  <t:MailboxQuery>
    <t:Query></t:Query>
    <t:MailboxSearchScopes>
      <t:MailboxSearchScope>
        <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=acba4fd5ddf4356b8a0e82ce1645f4e-Danie</t:Mailbox>
        <t:SearchScope>ArchiveOnly</t:SearchScope>
      </t:MailboxSearchScope>
    </t:MailboxSearchScopes>
  </t:MailboxQuery>
</m:SearchQueries>
<m:ResultType>StatisticsOnly</m:ResultType>
</m:SearchMailboxes>
</soap:Body>
</soap:Envelope>

```

The server sends the following successful response to the client.

```

<?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="526"
      MinorBuildNumber="0"
      Version="Exchange2013"
      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">
    <m:SearchMailboxesResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:SearchMailboxesResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:SearchMailboxesResult>
            <t:SearchQueries>
              <t:MailboxQuery>

```

```

<t:Query>Test Item</t:Query>
<t:MailboxSearchScopes>
  <t:MailboxSearchScope>
    <t:MailboxSearchScope>
      <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
FYDIBOHF23SPDLT)/cn=Recipients/cn=35181a742f0e47e392c8201a60d13ecf-Steve</t:Mailbox>
      <t:SearchScope>All</t:SearchScope>
    </t:MailboxSearchScope>
  </t:MailboxSearchScopes>
  <t:MailboxSearchScope>
    <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=f00c9f70539844beb04001d8f40c572e-Antho</t:Mailbox>
    <t:SearchScope>PrimaryOnly</t:SearchScope>
  </t:MailboxSearchScope>
</t:MailboxSearchScopes>
</t:MailboxQuery>
</t:SearchQueries>
<t:ResultType>StatisticsOnly</t:ResultType>
<t:ItemCount>2</t:ItemCount>
<t:Size>20206</t:Size>
<t:PageItemCount>0</t:PageItemCount>
<t:PageItemSize>0</t:PageItemSize>
<t:KeywordStats>
  <t:KeywordStat>
    <t:Keyword>Test Item</t:Keyword>
    <t:ItemHits>2</t:ItemHits>
    <t:Size>20206</t:Size>
  </t:KeywordStat>
</t:KeywordStats>
<t:FailedMailboxes>
  <t:FailedMailbox>
    <t:Mailbox>/o=First Organization/ou=Exchange Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=accba4fd5ddf4356b8a0e82ce1645f4e-Danie</t:Mailbox>
    <t:ErrorCode>0</t:ErrorCode>
    <t:ErrorMessage>The search query can't be empty.</t:ErrorMessage>
    <t:IsArchive>true</t:IsArchive>
  </t:FailedMailbox>
</t:FailedMailboxes>
</m:SearchMailboxesResult>
</m:SearchMailboxesResponseMessage>
</m:ResponseMessages>
</m:SearchMailboxesResponse>
</s:Body>
</s:Envelope>

```

5 Security

5.1 Security Considerations for Implementers

None.

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>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2013" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:include schemaLocation="MS-OXWSEDISC-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="GetDiscoverySearchConfigurationSoapIn">
    <wsdl:part name="request" element="m:GetDiscoverySearchConfiguration"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="ManagementRole" element="t:ManagementRole"/>
  </wsdl:message>
  <wsdl:message name="GetDiscoverySearchConfigurationSoapOut">
    <wsdl:part name="GetDiscoverySearchConfigurationResult"
element="m:GetDiscoverySearchConfigurationResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetHoldOnMailboxesSoapIn">
    <wsdl:part name="request" element="m:GetHoldOnMailboxes"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="ManagementRole" element="t:ManagementRole"/>
  </wsdl:message>
  <wsdl:message name="GetHoldOnMailboxesSoapOut">
    <wsdl:part name="GetHoldOnMailboxesResult" element="m:GetHoldOnMailboxesResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetSearchableMailboxesSoapIn">
    <wsdl:part name="request" element="m:GetSearchableMailboxes"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="ManagementRole" element="t:ManagementRole"/>
  </wsdl:message>
  <wsdl:message name="GetSearchableMailboxesSoapOut">
    <wsdl:part name="GetSearchableMailboxesResult"
element="m:GetSearchableMailboxesResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SearchMailboxesSoapIn">
    <wsdl:part name="request" element="m:SearchMailboxes"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="ManagementRole" element="t:ManagementRole"/>
  </wsdl:message>
  <wsdl:message name="SearchMailboxesSoapOut">
    <wsdl:part name="SearchMailboxesResult" element="m:SearchMailboxesResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SetHoldOnMailboxesSoapIn">
    <wsdl:part name="request" element="m:SetHoldOnMailboxes"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="ManagementRole" element="t:ManagementRole"/>
  </wsdl:message>

```

```

</wsdl:message>
<wsdl:message name="SetHoldOnMailboxesSoapOut">
  <wsdl:part name="SetHoldOnMailboxesResult" element="m:SetHoldOnMailboxesResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:portType name="ExchangeServicePortType">
  <wsdl:operation name="GetDiscoverySearchConfiguration">
    <wsdl:input message="m:GetDiscoverySearchConfigurationSoapIn"/>
    <wsdl:output message="m:GetDiscoverySearchConfigurationSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetHoldOnMailboxes">
    <wsdl:input message="m:GetHoldOnMailboxesSoapIn"/>
    <wsdl:output message="m:GetHoldOnMailboxesSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetSearchableMailboxes">
    <wsdl:input message="m:GetSearchableMailboxesSoapIn"/>
    <wsdl:output message="m:GetSearchableMailboxesSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="SearchMailboxes">
    <wsdl:input message="m:SearchMailboxesSoapIn"/>
    <wsdl:output message="m:SearchMailboxesSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="SetHoldOnMailboxes">
    <wsdl:input message="m:SetHoldOnMailboxesSoapIn"/>
    <wsdl:output message="m:SetHoldOnMailboxesSoapOut"/>
  </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="GetDiscoverySearchConfiguration">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetDiscoverySearchCo
nfiguration"/>
    <wsdl:input>
      <soap:header message="m:GetDiscoverySearchConfigurationSoapIn" part="RequestVersion"
use="literal"/>
      <soap:header message="m:GetDiscoverySearchConfigurationSoapIn" part="ManagementRole"
use="literal"/>
      <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" parts="GetDiscoverySearchConfigurationResult"/>
      <soap:header message="m:GetDiscoverySearchConfigurationSoapOut" part="ServerVersion"
use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetHoldOnMailboxes">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetHoldOnMailboxes"/
>
    <wsdl:input>
      <soap:header message="m:GetHoldOnMailboxesSoapIn" part="RequestVersion"
use="literal"/>
      <soap:header message="m:GetHoldOnMailboxesSoapIn" part="ManagementRole"
use="literal"/>
      <soap:body use="literal" parts="request"/>
    </wsdl:input>
  </wsdl:operation>

```

```

        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" parts="GetHoldOnMailboxesResult"/>
            <soap:header message="m:GetHoldOnMailboxesSoapOut" part="ServerVersion"
use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSearchableMailboxes">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetSearchableMailbox
es"/>
        <wsdl:input>
            <soap:header message="m:GetSearchableMailboxesSoapIn" part="RequestVersion"
use="literal"/>
            <soap:header message="m:GetSearchableMailboxesSoapIn" part="ManagementRole"
use="literal"/>
            <soap:body use="literal" parts="request"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" parts="GetSearchableMailboxesResult"/>
            <soap:header message="m:GetSearchableMailboxesSoapOut" part="ServerVersion"
use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SearchMailboxes">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SearchMailboxes"/>
        <wsdl:input>
            <soap:header message="m:SearchMailboxesSoapIn" part="RequestVersion" use="literal"/>
            <soap:header message="m:SearchMailboxesSoapIn" part="ManagementRole" use="literal"/>
            <soap:body use="literal" parts="request"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" parts="SearchMailboxesResult"/>
            <soap:header message="m:SearchMailboxesSoapOut" part="ServerVersion" use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetHoldOnMailboxes">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetHoldOnMailboxes"/
>
        <wsdl:input>
            <soap:header message="m:SetHoldOnMailboxesSoapIn" part="RequestVersion"
use="literal"/>
            <soap:header message="m:SetHoldOnMailboxesSoapIn" part="ManagementRole"
use="literal"/>
            <soap:body use="literal" parts="request"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" parts="SetHoldOnMailboxesResult"/>
            <soap:header message="m:SetHoldOnMailboxesSoapOut" 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
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 contents of the MS-OXWSEDISC-messages.xsd file and information about additional files that this schema file requires to operate correctly.

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

File name	Defining specification
MS-OXWSCDATA-messages.xsd	[MS-OXWSCDATA] section 7.1
MS-OXWSWDISC-types.xsd	7.2

```
<?xml version="1.0"?>
<xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2013" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="MS-OXWSEDISC-types.xsd"
namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:element name="GetHoldOnMailboxes" type="m:GetHoldOnMailboxesType"/>
  <xs:element name="GetHoldOnMailboxesResponse"
type="m:GetHoldOnMailboxesResponseMessageType"/>
  <xs:complexType name="GetDiscoverySearchConfigurationType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element minOccurs="0" name="SearchId" type="xs:string"/>
          <xs:element minOccurs="0" name="ExpandGroupMembership" type="xs:boolean"/>
          <xs:element minOccurs="0" name="InPlaceHoldConfigurationOnly" type="xs:boolean"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetDiscoverySearchConfiguration"
type="m:GetDiscoverySearchConfigurationType"/>
  <xs:complexType name="GetDiscoverySearchConfigurationResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element name="DiscoverySearchConfigurations"
type="t:ArrayOfDiscoverySearchConfigurationType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>
```

```

    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetDiscoverySearchConfigurationResponse"
type="m:GetDiscoverySearchConfigurationResponseMessageType"/>
<xs:complexType name="GetHoldOnMailboxesResponseMessageType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="MailboxHoldResult" type="t:MailboxHoldResultType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="GetHoldOnMailboxesType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" name="HoldId" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="GetSearchableMailboxesType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" name="SearchFilter" type="xs:string"/>
        <xs:element minOccurs="0" name="ExpandGroupMembership" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetSearchableMailboxes" type="m:GetSearchableMailboxesType"/>
<xs:complexType name="GetSearchableMailboxesResponseMessageType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="SearchableMailboxes" type="t:ArrayOfSearchableMailboxesType"/>
        <xs:element minOccurs="0" name="FailedMailboxes"
type="t:ArrayOfFailedSearchMailboxesType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetSearchableMailboxesResponse"
type="m:GetSearchableMailboxesResponseMessageType"/>
<xs:complexType name="SearchMailboxesType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="1" name="SearchQueries"
type="t:NonEmptyArrayOfMailboxQueriesType"/>
        <xs:element minOccurs="1" name="ResultType" type="t:SearchResultType"/>
        <xs:element minOccurs="0" name="PreviewItemResponseShape"
type="t:PreviewItemResponseShapeType"/>
        <xs:element minOccurs="0" name="SortBy" type="t:FieldOrderType"/>
        <xs:element minOccurs="0" name="Language" type="xs:string"/>
        <xs:element minOccurs="0" name="Deduplication" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```



```

        <xs:element minOccurs="0" name="PageSize" type="xs:int"/>
        <xs:element minOccurs="0" name="PageItemReference" type="xs:string"/>
        <xs:element minOccurs="0" name="PageDirection" type="t:SearchPageDirectionType"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="SearchMailboxes" type="m:SearchMailboxesType"/>
<xs:complexType name="SearchMailboxesResponseType">
    <xs:complexContent mixed="false">
        <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
</xs:complexType>
<xs:element name="SearchMailboxesResponse" type="m:SearchMailboxesResponseType"/>
<xs:complexType name="SearchMailboxesResponseMessageType">
    <xs:complexContent mixed="false">
        <xs:extension base="m:ResponseMessageType">
            <xs:sequence>
                <xs:element minOccurs="0" name="SearchMailboxesResult"
type="t:SearchMailboxesResultType"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="SetHoldOnMailboxesType">
    <xs:complexContent mixed="false">
        <xs:extension base="m:BaseRequestType">
            <xs:sequence>
                <xs:element minOccurs="1" name="ActionType" type="t:HoldActionType"/>
                <xs:element minOccurs="1" name="HoldId" type="xs:string"/>
                <xs:element minOccurs="1" name="Query" type="xs:string"/>
                <xs:element minOccurs="0" name="Mailboxes" type="t:ArrayOfStringsType"/>
                <xs:element minOccurs="0" name="Language" type="xs:string"/>
                <xs:element minOccurs="0" name="IncludeNonIndexableItems" type="xs:boolean"/>
                <xs:element minOccurs="0" name="Deduplication" type="xs:boolean"/>
                <xs:element minOccurs="0" name="InPlaceHoldIdentity" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="SetHoldOnMailboxes" type="m:SetHoldOnMailboxesType"/>
<xs:complexType name="SetHoldOnMailboxesResponseMessageType">
    <xs:complexContent mixed="false">
        <xs:extension base="m:ResponseMessageType">
            <xs:sequence>
                <xs:element minOccurs="0" name="MailboxHoldResult" type="t:MailboxHoldResultType"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="SetHoldOnMailboxesResponse"
type="m:SetHoldOnMailboxesResponseMessageType"/>
</xs:schema>

```

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

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

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

File name	Defining specification
MS-OXWSXPROP-types.xsd	[MS-OXWSXPROP] section 2.1
MS-OXWSMSHR-types.xsd	[MS-OXWSMSHR] section 7.2

```

<?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="Exchange2013" 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:include schemaLocation="MS-OXWSMSHR-types.xsd"/>
  <xs:complexType name="ArrayOfDiscoverySearchConfigurationType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DiscoverySearchConfiguration"
type="t:DiscoverySearchConfigurationType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfFailedSearchMailboxesType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="FailedMailbox"
type="t:FailedSearchMailboxType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfKeywordStatisticsSearchResultsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="KeywordStat"
type="t:KeywordStatisticsSearchResultType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfMailboxHoldStatusType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="MailboxHoldStatus"
type="t:MailboxHoldStatusType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfMailboxStatisticsItemsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="MailboxStat"
type="t:MailboxStatisticsItemType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfSearchableMailboxesType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SearchableMailbox"
type="t:SearchableMailboxType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ArrayOfSearchPreviewItemsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="SearchPreviewItem"
type="t:SearchPreviewItemType"/>
    </xs:sequence>
  </xs:complexType>

```

```

<xs:complexType name="ArrayOfSearchRefinerItemsType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Refiner"
type="t:SearchRefinerItemType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="DiscoverySearchConfigurationType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="SearchId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="SearchQuery" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SearchableMailboxes"
type="t:ArrayOfSearchableMailboxesType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="InPlaceHoldIdentity" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ManagedByOrganization" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="FailedSearchMailboxType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ErrorCode" type="xs:int"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ErrorMessage" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsArchive" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="HoldActionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Create"/>
    <xs:enumeration value="Update"/>
    <xs:enumeration value="Remove"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="HoldStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotOnHold"/>
    <xs:enumeration value="Pending"/>
    <xs:enumeration value="OnHold"/>
    <xs:enumeration value="PartialHold"/>
    <xs:enumeration value="Failed"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="KeywordStatisticsSearchResultType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Keyword" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ItemHits" type="xs:int"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="MailboxHoldResultType">
  <xs:sequence>
    <xs:element name="HoldId" type="xs:string"/>
    <xs:element minOccurs="0" name="Query" type="xs:string"/>
    <xs:element name="MailboxHoldStatuses" type="t:ArrayOfMailboxHoldStatusType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="MailboxHoldStatusType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Status" type="t:HoldStatusType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="AdditionalInfo" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

```

    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="MailboxQueryType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Query" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="MailboxSearchScopes"
type="t:NonEmptyArrayOfMailboxSearchScopesType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="MailboxSearchLocationType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="PrimaryOnly"/>
      <xs:enumeration value="ArchiveOnly"/>
      <xs:enumeration value="All"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="MailboxSearchScopeType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Mailbox" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="SearchScope"
type="t:MailboxSearchLocationType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="MailboxStatisticsItemType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="MailboxId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="ItemCount" type="xs:long"/>
      <xs:element minOccurs="1" maxOccurs="1" name="Size" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NonEmptyArrayOfExtendedFieldURIsType">
    <xs:choice maxOccurs="unbounded">
      <xs:element name="ExtendedFieldURI" type="t:PathToExtendedFieldType"/>
    </xs:choice>
  </xs:complexType>
  <xs:complexType name="NonEmptyArrayOfMailboxSearchScopesType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" name="MailboxSearchScope"
type="t:MailboxSearchScopeType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NonEmptyArrayOfMailboxQueriesType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="unbounded" name="MailboxQuery"
type="t:MailboxQueryType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="PreviewItemBaseShapeType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Default"/>
      <xs:enumeration value="Compact"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="PreviewItemMailboxType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="MailboxId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="PrimarySmtpAddress" type="xs:string"/>
    </xs:sequence>

```

```

</xs:complexType>
<xs:complexType name="PreviewItemResponseShapeType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="BaseShape"
type="t:PreviewItemBaseShapeType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="AdditionalProperties"
type="t:NonEmptyArrayOfExtendedFieldURIsType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SearchableMailboxType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Guid" type="t:GuidType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="PrimarySmtpAddress" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsExternalMailbox" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ExternalEmailAddress" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="DisplayName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsMembershipGroup" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ReferenceId" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SearchMailboxesResultType">
  <xs:sequence>
    <xs:element minOccurs="1" name="SearchQueries"
type="t:NonEmptyArrayOfMailboxQueriesType"/>
    <xs:element minOccurs="1" name="ResultType" type="t:SearchResultType"/>
    <xs:element minOccurs="1" name="ItemCount" type="xs:long"/>
    <xs:element minOccurs="1" name="Size" type="xs:long"/>
    <xs:element minOccurs="1" name="PageItemCount" type="xs:int"/>
    <xs:element minOccurs="1" name="PageItemSize" type="xs:long"/>
    <xs:element minOccurs="0" name="KeywordStats"
type="t:ArrayOfKeywordStatisticsSearchResultsType"/>
    <xs:element minOccurs="0" name="Items" type="t:ArrayOfSearchPreviewItemsType"/>
    <xs:element minOccurs="0" name="FailedMailboxes"
type="t:ArrayOfFailedSearchMailboxesType"/>
    <xs:element minOccurs="0" name="Refiners" type="t:ArrayOfSearchRefinerItemsType"/>
    <xs:element minOccurs="0" name="MailboxStats"
type="t:ArrayOfMailboxStatisticsItemsType"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="SearchPageDirectionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Previous"/>
    <xs:enumeration value="Next"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="SearchPreviewItemType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Id" type="t:ItemIdType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Mailbox"
type="t:PreviewItemMailboxType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ParentId" type="t:ItemIdType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ItemClass" type="t:ItemClassType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UniqueHash" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SortValue" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="OwaLink" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Sender" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ToRecipients"
type="t:ArrayOfSmtpAddressType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CcRecipients"
type="t:ArrayOfSmtpAddressType"/>
  </xs:sequence>
</xs:complexType>

```

```

    <xs:element minOccurs="0" maxOccurs="1" name="BccRecipients"
type="t:ArrayOfSmtptAddressType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CreatedTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ReceivedTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SentTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Subject" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Size" type="xs:long"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Preview" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Importance"
type="t:ImportanceChoicesType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Read" type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="HasAttachment" type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedPropertyType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SearchRefinerItemType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Name" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Value" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Count" type="xs:long"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Token" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="SearchResultType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="StatisticsOnly"/>
    <xs:enumeration value="PreviewOnly"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

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
- Microsoft SharePoint Server 2013

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 2.2.4.4:](#) Exchange 2013 does not use the **ErrorCode** element. This value is always 0.

9 Change Tracking

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

10 Index

A

Abstract data model
 [server](#) 16
[Applicability](#) 9
[ArrayOfFailedSearchMailboxesTypecomplex type](#) 11
[ArrayOfMailboxHoldStatusTypecomplex type](#) 11
[ArrayOfSearchableMailboxesTypecomplex type](#) 12
[Attribute groups](#) 15
[Attributes](#) 15

C

[Capability negotiation](#) 9
[Change tracking](#) 72
Client
 [overview](#) 16
[Complex types](#) 11
 [ArrayOfFailedSearchMailboxesType](#) 11
 [ArrayOfMailboxHoldStatusType](#) 11
 [ArrayOfSearchableMailboxesType](#) 12
 [FailedSearchMailboxType](#) 12
 [MailboxHoldResultType](#) 13
 [MailboxHoldStatusType](#) 13
 [SearchableMailboxType](#) 13

D

Data model - abstract
 [server](#) 16

E

Events
 [local - server](#) 51
 [timer - server](#) 51

Examples

[getting mailboxes with holds](#) 53
 [getting searchable mailboxes](#) 54
 [searching mailboxes](#) 56
 [setting holds on mailboxes](#) 52

F

[FailedSearchMailboxTypecomplex type](#) 12
[Fields - vendor-extensible](#) 9
[Full WSDL](#) 60
[Full XML Schema](#) 63
 <http://schemas.microsoft.com/exchange/services/2006/messages Schema> 63
 <http://schemas.microsoft.com/exchange/services/2006/types Schema> 65

G

[Getting mailboxes with holds example](#) 53
[Getting searchable mailboxes example](#) 54
[Glossary](#) 6
[Groups](#) 15

H

[HoldStatusTypesimple type](#) 14

I

[Implementer - security considerations](#) 59
[Index of security parameters](#) 59
[Informative references](#) 7
Initialization
 [server](#) 16
[Introduction](#) 6

L

Local events
 [server](#) 51

M

[MailboxHoldResultTypecomplex type](#) 13
[MailboxHoldStatusTypecomplex type](#) 13
Message processing
 [server](#) 16
Messages
 [ArrayOfFailedSearchMailboxesTypecomplex type](#) 11
 [ArrayOfMailboxHoldStatusTypecomplex type](#) 11
 [ArrayOfSearchableMailboxesTypecomplex type](#) 12
 [attribute groups](#) 15
 [attributes](#) 15
 [complex types](#) 11
 [elements](#) 10
 [enumerated](#) 10
 [FailedSearchMailboxTypecomplex type](#) 12
 [groups](#) 15
 [HoldStatusTypesimple type](#) 14
 [MailboxHoldResultTypecomplex type](#) 13
 [MailboxHoldStatusTypecomplex type](#) 13
 [namespaces](#) 10
 [SearchableMailboxTypecomplex type](#) 13
 [simple types](#) 14
 [syntax](#) 10
 [transport](#) 10

N

[Namespaces](#) 10
[Normative references](#) 7

O

Operations
 [GetDiscoverySearchConfiguration](#) 17
 [GetHoldOnMailboxes](#) 22
 [GetSearchableMailboxes](#) 26
 [SearchMailboxes](#) 31
 [SetHoldOnMailboxes](#) 46

[Overview \(synopsis\)](#) 8

P

[Parameters - security index](#) 59
[Preconditions](#) 8
[Prerequisites](#) 8
[Product behavior](#) 71

R

[References](#) 6
 [informative](#) 7
 [normative](#) 7
[Relationship to other protocols](#) 8

S

[SearchableMailboxTypecomplex type](#) 13
[Searching mailboxes example](#) 56
Security
 [implementer considerations](#) 59
 [parameter index](#) 59
Sequencing rules
 [server](#) 16
Server
 [abstract data model](#) 16
 [GetDiscoverySearchConfiguration operation](#) 17
 [GetHoldOnMailboxes operation](#) 22
 [GetSearchableMailboxes operation](#) 26
 [initialization](#) 16
 [local events](#) 51
 [message processing](#) 16
 [overview](#) 16
 [SearchMailboxes operation](#) 31
 [sequencing rules](#) 16
 [SetHoldOnMailboxes operation](#) 46
 [timer events](#) 51
 [timers](#) 16
[Setting holds on mailboxes example](#) 52
[Simple types](#) 14
 [HoldStatusType](#) 14
[Standards assignments](#) 9
Syntax
 [messages - overview](#) 10

T

Timer events
 [server](#) 51
Timers
 [server](#) 16
[Tracking changes](#) 72
[Transport](#) 10
Types
 [complex](#) 11
 [simple](#) 14

V

[Vendor-extensible fields](#) 9
[Versioning](#) 9

W

[WSDL](#) 60

X

[XML Schema](#) 63
 <http://schemas.microsoft.com/exchange/services/2006/messages> Schema 63
 <http://schemas.microsoft.com/exchange/services/2006/types> Schema 65