**[MS-SPEMAWS]:**

**SharePoint Email Web Service Protocol**

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# Introduction

The SharePoint Email Web Service Protocol is a SOAP-based protocol that enables system administrators to manage information about contacts and groups of contacts that are controlled by [**Active Directory Domain Services (AD DS)**](#gt_2e72eeeb-aee9-4b0a-adc6-4476bacf5024) or a directory service that is compatible with AD DS. This protocol also enables system administrators to query the status of operations that are defined by this protocol.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

## Glossary

This document uses the following terms:

**Active Directory Domain Services (AD DS)**: A [**directory service (DS)**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) implemented by a domain controller (DC). The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) provides a data store for objects that is distributed across multiple DCs. The DCs interoperate as peers to ensure that a local change to an object replicates correctly across DCs. AD DS is a deployment of Active Directory [[MS-ADTS]](%5BMS-ADTS%5D.pdf#Section_d243592709994c628c6d13ba31a52e1a).

**authenticated user**: A built-in security group specified in [[MS-WSO]](%5BMS-WSO%5D.pdf) whose members include all users that can be authenticated by a computer.

**contact**: A person, company, or other entity that is stored in a directory and is associated with one or more unique identifiers and attributes, such as an Internet message address or login name.

**directory service (DS)**: A service that stores and organizes information about a computer network's users and network shares, and that allows network administrators to manage users' access to the shares. See also Active Directory.

**distribution list**: A collection of users, computers, contacts, or other groups that is used only for email distribution, and addressed as a single recipient.

**domain account**: A stored set of attributes representing a principal used to authenticate a user or machine to an Active Directory domain.

**email address**: A string that identifies a user and enables the user to receive Internet messages.

**email alias**: A string which is the local-part of a mailbox as specified in [[RFC2821]](https://go.microsoft.com/fwlink/?LinkId=90384).

**endpoint**: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

**globally unique identifier (GUID)**: A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [[RFC4122]](https://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](https://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

**Hypertext Transfer Protocol (HTTP)**: An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

**Hypertext Transfer Protocol Secure (HTTPS)**: An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [[SSL3]](https://go.microsoft.com/fwlink/?LinkId=90534) and [[RFC5246]](https://go.microsoft.com/fwlink/?LinkId=129803).

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [[SOAP1.2-1/2003]](https://go.microsoft.com/fwlink/?LinkId=90521).

**SOAP action**: The HTTP request header field used to indicate the intent of the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) request, using a URI value. See [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 6.1.1 for more information.

**SOAP body**: A container for the payload data being delivered by a SOAP message to its recipient. See [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

**SOAP fault**: A container for error and status information within a SOAP message. See [SOAP1.2-1/2007] section 5.4 for more information.

**Web Services Description Language (WSDL)**: An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

**XML namespace**: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [[RFC3986]](https://go.microsoft.com/fwlink/?LinkId=90453). A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [[XMLNS-2ED]](https://go.microsoft.com/fwlink/?LinkId=90602).

**XML schema**: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### 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.

[MS-ADA1] Microsoft Corporation, "[Active Directory Schema Attributes A-L](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f)".

[MS-ADA3] Microsoft Corporation, "[Active Directory Schema Attributes N-Z](%5BMS-ADA3%5D.pdf#Section_4517e8353ee644d4bb95a94b6966bfb0)".

[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](https://go.microsoft.com/fwlink/?LinkId=90317)

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[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/](https://go.microsoft.com/fwlink/?LinkId=90609)

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, [http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/](https://go.microsoft.com/fwlink/?LinkId=90610)

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## Overview

This protocol enables system administrators to manage [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) and groups of contacts that are controlled by either [**Active Directory Domain Services (AD DS)**](#gt_2e72eeeb-aee9-4b0a-adc6-4476bacf5024) or a [**directory service (DS)**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) that is compatible with AD DS. System administrators can use this protocol to do the following:

* Create, modify, and delete contacts.
* Add, update, and remove contacts from existing groups of contacts, which are referred to as [**distribution lists**](#gt_ccbb0292-fefe-493f-80c3-11533e473591).
* Create, update, and delete distribution lists.
* Check the status of operations that are defined by this protocol.
* Integrate a protocol server with AD DS.

## Relationship to Other Protocols

This protocol uses the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) message protocol for formatting request and response messages, as described in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) and [[SOAP1.2-2/2007]](https://go.microsoft.com/fwlink/?LinkId=119124). It transmits those messages by using [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372), or [**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383).

The following diagram shows the underlying messaging and transport stack used by the protocol:



Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a site that is identified by a URL that is known by protocol clients. The protocol server [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) is formed by appending "/\_vti\_bin/SharepointEmailWS.asmx" to the URL of the site, for example "http://www.example.com/Repository/\_vti\_bin/SharepointEmailWS.asmx".

This protocol assumes that authentication has been performed by the underlying protocols.

## Applicability Statement

This protocol is designed to enable a protocol client to create, modify, or delete [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) and [**distribution lists**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) that are controlled by either [**AD DS**](#gt_2e72eeeb-aee9-4b0a-adc6-4476bacf5024) or a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) that is compatible with AD DS. It also enables a protocol server to require external approval for operations that are defined by this protocol.

This protocol does not enable a protocol client to query the state of a DS.

## Versioning and Capability Negotiation

 This protocol uses multiple transports as specified in section [2.1](#Section_4fa90c7f8788409588cdf6cf0d62a3ef).

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

## Transport

Protocol servers MUST support [**Simple Object Access Protocol (SOAP)**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) over [**Hypertext Transfer Protocol (HTTP)**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd). Protocol servers SHOULD additionally support SOAP over [**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7) to help secure communications with protocol clients.

Protocol messages MUST be formatted as specified in either [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 4 or [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5. Server faults MUST be returned by using either HTTP status codes, as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10, or [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in [SOAP1.1] section 4.4 or [SOAP1.2-1/2007] section 5.4.

## Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067), as specified in [[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) and [[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609), and [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa), as specified in [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) using the mechanisms specified in [[XMLNS]](https://go.microsoft.com/fwlink/?LinkId=191840). 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. These namespaces are described in the following table.

| Prefix | Namespace URI | Reference |
| --- | --- | --- |
| Soap | http://schemas.xmlsoap.org/wsdl/soap/  | [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) |
| Tns | http://microsoft.com/webservices/SharePoint/SharepointEmailWS/  |  |
| s1 | http://microsoft.com/wsdl/types/  |  |
| S | http://www.w3.org/2001/XMLSchema  | [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608)[[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) |
| soap12 | http://schemas.xmlsoap.org/wsdl/soap12/  | [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) [[SOAP1.2-2/2007]](https://go.microsoft.com/fwlink/?LinkId=119124)  |
| Wsdl | http://schemas.xmlsoap.org/wsdl/ | [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577) |

### Messages

This specification does not define any common [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions.

### Elements

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions.

### Complex Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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 |
| --- | --- |
| **ArrayOfString** | Stores an array of strings. |
| **RequestInfo** | Specifies information about a request to create, modify, or delete a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). |
| **RequestResponse** | Contains return information for a request. |

#### ArrayOfString

The **ArrayOfString** complex type contains an array of string values. It is used by the **ChangeContactsMembershipInDistributionGroup** (section [3.1.4.1](#Section_24fef2416c5a4a5da5bd98c42f7ab325)) and **ChangeUsersMembershipInDistributionGroup** (section [3.1.4.2](#Section_d5a0c1f9312a4918b45e5c2d972671c7)) operations.

1. <s:complexType name="ArrayOfString">
2. <s:sequence>
3. <s:element name="string" type="s:string" nillable="true" minOccurs="0" maxOccurs="unbounded" />
4. </s:sequence>
5. </s:complexType>

**string:** A string variable that contains email aliases of the [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) or [**domain accounts**](#gt_d0be6ce0-cc28-43cd-bd6b-6f324fcb8397) for the users.

#### RequestInfo

The **RequestInfo** complex type contains information about a request to create, modify, or delete a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). It is used by the following operations:

* **CreateDistributionGroup** (section [3.1.4.4](#Section_bbf607a3531c453791a7673e1cc511d6))
* **DeleteDistributionGroup** (section [3.1.4.6](#Section_d4429a6031d1408ba93c85b73f5afb61))
* **ModifyDistributionGroup** (section [3.1.4.9](#Section_b120f3e5bb964565a00d4ef410c96a17))
* **RenameDistributionGroup** (section [3.1.4.10](#Section_f92a79614fa046e2a411626ee2420846))
1. <s:complexType name="RequestInfo">
2. <s:sequence>
3. <s:element name="RequestorEmail" type="s:string" />
4. <s:element name="Justification" type="s:string" minOccurs="0" />
5. <s:element name="RequestId" type="s1:guid" />
6. </s:sequence>
7. </s:complexType>

**RequestorEmail:** The [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) of the user who is attempting to create, modify, or delete the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are defined in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/).

**Justification:** The requestor's reasons for making the request. This value MUST be 4,000 or fewer characters.

**RequestId:** A [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) that identifies the request. This value MUST be ignored by the protocol server.

#### RequestResponse

The **RequestResponse** complex type specifies return information for a request. It is used by the following operations:

* **CreateDistributionGroup** (section [3.1.4.4](#Section_bbf607a3531c453791a7673e1cc511d6))
* **DeleteDistributionGroup** (section [3.1.4.6](#Section_d4429a6031d1408ba93c85b73f5afb61))
* **GetJobStatus** (section [3.1.4.7](#Section_cf80fbb5487146eea3fe92edb289ab00))
* **ModifyDistributionGroup** (section [3.1.4.9](#Section_b120f3e5bb964565a00d4ef410c96a17))
* **RenameDistributionGroup** (section [3.1.4.10](#Section_f92a79614fa046e2a411626ee2420846))
1. <s:complexType name="RequestResponse">
2. <s:sequence>
3. <s:element name="JobID" type="s:int" />
4. <s:element name="Comment" type="s:string" minOccurs="0" />
5. <s:element name="JobStatus" type="tns:RequestStatus" />
6. <s:element name="Alias" type="s:string" minOccurs="0" />
7. </s:sequence>
8. </s:complexType>

**JobID:** An integer that identifies a newly created job or an existing job whose status is being retrieved by the **GetJobStatus** operation. If a new job was created, this value MUST be greater than 0. If the job creation failed and **JobStatus** equals **AccessDenied**, this value MUST be -1. Otherwise, if the job creation failed or the request was automatically approved, this value MUST be 0.

**Comment:** A string that contains additional information about the request.

**JobStatus:** A **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) that contains the status of the request.

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) or [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) that the request applies to.

### Simple Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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 |
| --- | --- |
| **ContactFlags** | Enumerates the properties and constraints on a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128). |
| **DistributionGroupFlags** | Enumerates the properties and constraints on a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). |
| **guid** | Specifies the unique identifier. |
| **RequestStatus** | Enumerates the status of a request message. |

#### ContactFlags

The **ContactFlags** simple type enumerates properties and constraints on a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128). It is used by the **CreateContact** (section [3.1.4.3](#Section_33a047f9a0864b3481bafd9dfbe4800d)) and **ModifyContact** (section [3.1.4.8](#Section_668cdad350a4400eb7af0f1d74f422b2)) operations.

1. <s:simpleType name="ContactFlags">
2. <s:restriction base="s:string">
3. <s:enumeration value="None"/>
4. <s:enumeration value="OnlyAllowAuthenticatedEmail"/>
5. </s:restriction>
6. </s:simpleType>

The following table defines the allowable values for the **ContactFlags** simple type.

| Value | Description |
| --- | --- |
| None | No flags are associated with the contact. |
| OnlyAllowAuthenticatedEmail | The contact is allowed to receive e-mail messages only from accounts that are associated with authenticated users. |

#### DistributionGroupFlags

The **DistributionGroupFlags** simple type enumerates properties and constraints on a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). It is used by the **CreateDistributionGroup** (section [3.1.4.4](#Section_bbf607a3531c453791a7673e1cc511d6)) and the **ModifyDistributionGroup** (section [3.1.4.9](#Section_b120f3e5bb964565a00d4ef410c96a17)) operations.

1. <s:simpleType name="DistributionGroupFlags">
2. <s:restriction base="s:string">
3. <s:enumeration value="None"/>
4. <s:enumeration value="OnlyAllowAuthenticatedEmail"/>
5. </s:restriction>
6. </s:simpleType>

The following table defines the allowable values for the **DistributionGroupFlags** simple type.

| Value | Description |
| --- | --- |
| None | No flags are associated with the distribution list. |
| OnlyAllowAuthenticatedEmail | The distribution list is allowed to receive e-mail messages only from [**authenticated users**](#gt_9027fac6-fece-4e93-b2f8-9dd5bc949ff3). |

#### guid

The **guid** simple type specifies the unique identifier.[<1>](#Appendix_A_1" \o "Product behavior note 1)

1. <s:simpleType name="guid">
2. <s:restriction base="s:string">
3. <s:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}" />
4. </s:restriction>
5. </s:simpleType>

#### RequestStatus

The **RequestStatus** simple type enumerates the status of a request. It is used by the following operations:

* **ChangeContactsMembershipInDistributionGroup** (section [3.1.4.1](#Section_24fef2416c5a4a5da5bd98c42f7ab325))
* **ChangeUsersMembershipInDistributionGroup** (section [3.1.4.2](#Section_d5a0c1f9312a4918b45e5c2d972671c7))
* **CreateContact** (section [3.1.4.3](#Section_33a047f9a0864b3481bafd9dfbe4800d))
* **DeleteContact** (section [3.1.4.5](#Section_3cc54f87d4ed4f5ba87018abff34e394))
* **ModifyContact** (section [3.1.4.8](#Section_668cdad350a4400eb7af0f1d74f422b2))

It is also used by the **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)).

1. <s:simpleType name="RequestStatus">
2. <s:restriction base="s:string">
3. <s:enumeration value="Success"/>
4. <s:enumeration value="PendingApproval"/>
5. <s:enumeration value="ApprovalDenied"/>
6. <s:enumeration value="DuplicateAlias"/>
7. <s:enumeration value="InvalidArgument"/>
8. <s:enumeration value="ServiceNotConfigured"/>
9. <s:enumeration value="AccessDenied"/>
10. <s:enumeration value="ServerUnavailable"/>
11. <s:enumeration value="ObjectNotFound"/>
12. <s:enumeration value="InvalidMember"/>
13. <s:enumeration value="InternalError"/>
14. </s:restriction>
15. </s:simpleType>

The following table defines the allowable values for the **RequestStatus** simple type.

| Value | Description |
| --- | --- |
| Success | The operation finished successfully. |
| PendingApproval | The operation requires approval and approval has not been granted or denied yet. |
| ApprovalDenied | The operation requires approval and approval was denied. |
| DuplicateAlias | The specified [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) already exists in the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e). |
| InvalidArgument | One or more arguments are not valid. |
| ServiceNotConfigured | The DS is not configured. |
| AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| ServerUnavailable | A protocol server that is needed for the operation cannot be accessed. |
| ObjectNotFound | The specified [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) or [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) cannot be found. |
| InvalidMember | One or more of the specified e-mail addresses is not valid. |
| InternalError | The operation failed because an unexpected internal error occurred. |

### Attributes

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute definitions.

### Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) group definitions.

### Attribute Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute group definitions.

### Common Data Structures

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) data structures.

# 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.

This protocol enables protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using either HTTP status codes or [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f). Except where specified otherwise, protocol clients SHOULD interpret HTTP status codes as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10. Except where specified otherwise, SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

## SharepointEmailWSSoap Server Details

### Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

The following diagram shows the server data structure.



Figure 2: Data structure on a protocol server

The back-end, data storage system maintains the following sets of data for this protocol.

**Contact:** Contains information about [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128). Each contact is uniquely identified by an [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) that is assigned to it by a protocol client.

**DistributionGroup:** Contains information about [**distribution lists**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). Each distribution list is uniquely identified by an e-mail alias that is assigned to it by a protocol client.

**Job:** Contains information about changes that were requested by a protocol client. Each job is uniquely identified by a job identifier that is assigned to it by a protocol server.

**DistributionGroupMembership:** Contains information about contacts that are members of a distribution list.

### Timers

None.

### Initialization

None.

### Message Processing Events and Sequencing Rules

The following table summarizes the list of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) operations as defined by this specification:

| WSDL operation | Description |
| --- | --- |
| **ChangeContactsMembershipInDistributionGroup** | Adds or removes [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) from a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). |
| **ChangeUsersMembershipInDistributionGroup** | Adds or removes users from a distribution list. |
| **CreateContact** | Creates a new contact. |
| **CreateDistributionGroup** | Creates a new distribution list. |
| **DeleteContact** | Deletes a contact. |
| **DeleteDistributionGroup** | Deletes a distribution list. |
| **GetJobStatus** | Requests an update on the status of a request that was pending approval when it was last checked. |
| **ModifyContact** | Changes information about a contact. |
| **ModifyDistributionGroup** | Changes information about a distribution list. |
| **RenameDistributionGroup** | Changes the name of a distribution list. |

#### ChangeContactsMembershipInDistributionGroup

The **ChangeContactsMembershipInDistributionGroup** operation is used to add and remove [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) from a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591).

1. <wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
2. <wsdl:input message="tns:ChangeContactsMembershipInDistributionGroupSoapIn" />
3. <wsdl:output message="tns:ChangeContactsMembershipInDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **ChangeContactsMembershipInDistributionGroupSoapIn** request message, and the protocol server responds with a **ChangeContactsMembershipInDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 3: Message sequence for a ChangeContactsMembershipInDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **ChangeContactsMembershipInDistributionGroupSoapIn** | A request to initiate a **ChangeContactsMembershipInDistributionGroup** operation. |
| **ChangeContactsMembershipInDistributionGroupSoapOut** | A response from the protocol server at completion of the **ChangeContactsMembershipInDistributionGroup** operation. |

###### ChangeContactsMembershipInDistributionGroupSoapIn

This is the request message for a **ChangeContactsMembershipInDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeContactsMembershipInDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ChangeContactsMembershipInDistributionGroup** element.

###### ChangeContactsMembershipInDistributionGroupSoapOut

This is the response message for a **ChangeContactsMembershipInDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeContactsMembershipInDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ChangeContactsMembershipInDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeContactsMembershipInDistributionGroup** | Body of the **ChangeContactsMembershipInDistributionGroupSoapIn** message. |
| **ChangeContactsMembershipInDistributionGroupResponse** | Body of the **ChangeContactsMembershipInDistributionGroupSoapOut** message. |

###### ChangeContactsMembershipInDistributionGroup

The definition of the **ChangeContactsMembershipInDistributionGroup** element is as follows.

1. <s:element name="ChangeContactsMembershipInDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. <s:element name="AddListForContacts" type="tns:ArrayOfString" minOccurs="0" />
6. <s:element name="DeleteListForContacts" type="tns:ArrayOfString" minOccurs="0" />
7. <s:element name="DeleteAllCurrentMembers" type="s:boolean" />
8. </s:sequence>
9. </s:complexType>
10. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/).

**AddListForContacts:** An array that contains the e-mail aliases of the [**contacts**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) to add.

**DeleteListForContacts:** An array that contains the e-mail aliases of the contacts to remove.

**DeleteAllCurrentMembers:** A Boolean value that indicates whether to remove all members from the distribution list or only the contacts specified by the **DeleteListForContacts** element. If this value is **true**, the **DeleteListForContacts** element MUST be ignored by the server.

The addition of contacts to the distribution group MUST occur after all of the deletion requests are processed.

###### ChangeContactsMembershipInDistributionGroupResponse

The definition of the **ChangeContactsMembershipInDistributionGroupResponse** element is as follows.

1. <s:element name="ChangeContactsMembershipInDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="ChangeContactsMembershipInDistributionGroupResult" type="tns:RequestStatus"/>
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**ChangeContactsMembershipInDistributionGroupResult:** The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) in the response message. The response MUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.InvalidMember | The value of the **DeleteAllCurrentMembers** element is "FALSE" and one of the [**e-mail aliases**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) specified in the **DeleteListForContacts** element either cannot be found or is not a valid member of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). |
| RequestStatus.ObjectNotFound | The specified e-mail aliascannot be found. |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | A protocol server that is required for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.Success | The operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangeUsersMembershipInDistributionGroup

The **ChangeUsersMembershipInDistributionGroup** operation is used to add and remove users from a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591).

1. <wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
2. <wsdl:input message="tns:ChangeUsersMembershipInDistributionGroupSoapIn" />
3. <wsdl:output message="tns:ChangeUsersMembershipInDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **ChangeUsersMembershipInDistributionGroupSoapIn** request message and the protocol server responds with a **ChangeUsersMembershipInDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 4: Message sequence for a ChangeUsersMembershipInDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **ChangeUsersMembershipInDistributionGroupSoapIn** | A request to initiate a **ChangeUsersMembershipInDistributionGroup** operation. |
| **ChangeUsersMembershipInDistributionGroupSoapOut** | A response from the protocol server at completion of the **ChangeUsersMembershipInDistributionGroup** operation. |

###### ChangeUsersMembershipInDistributionGroupSoapIn

This is the request message for a **ChangeUsersMembershipInDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembershipInDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ChangeUsersMembershipInDistributionGroup** element.

###### ChangeUsersMembershipInDistributionGroupSoapOut

This is the response message for a **ChangeUsersMembershipInDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembershipInDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ChangeUsersMembershipInDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeUsersMembershipInDistributionGroup** | Body of the **ChangeUsersMembershipInDistributionGroupSoapIn** message. |
| **ChangeUsersMembershipInDistributionGroupResponse** | Body of the **ChangeUsersMembershipInDistributionGroupSoapOut** message. |

###### ChangeUsersMembershipInDistributionGroup

The definition of the **ChangeUsersMembershipInDistributionGroup** element is as follows.

1. <s:element name="ChangeUsersMembershipInDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" minOccurs="0"/>
5. <s:element name="AddNt4NameList" type="tns:ArrayOfString" minOccurs="0"/>
6. <s:element name="DeleteNt4NameList" type="tns:ArrayOfString" minOccurs="0"/>
7. <s:element name="DeleteAllCurrentMembers" type="s:boolean"/>
8. </s:sequence>
9. </s:complexType>
10. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/).

**AddNt4NameList:** An array that contains the [**domain accounts**](#gt_d0be6ce0-cc28-43cd-bd6b-6f324fcb8397) for the users to add. This can be NULL.

**DeleteNt4NameList:** An array that contains the domain accounts for the users to remove. This can be NULL.

**DeleteAllCurrentMembers:** A Boolean value that indicates whether to remove all users from the distribution list or only the users specified by the **DeleteNt4NameList** element. If this value is **true**, the **DeleteListForContacts** element MUST be ignored.

The addition of users to the distribution group MUST occur after all of the deletion requests are processed.

###### ChangeUsersMembershipInDistributionGroupResponse

The definition of the **ChangeUsersMembershipInDistributionGroupResponse** element is as follows.

1. <s:element name="ChangeUsersMembershipInDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="ChangeUsersMembershipInDistributionGroupResult" type="tns:RequestStatus"/>
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**ChangeUsersMembershipInDistributionGroupResult:** The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) in the response message. The response MUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ObjectNotFound | The specified **e-mail alias** cannot be found in the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e). |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | A protocol server that is required for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred or one of the **e-mail aliases** specified in the **DeleteNt4NameList** element either cannot be found or is not a valid member of the **distribution list**. |
| RequestStatus.Success | The valid specified accounts were added successfully. Invalid accounts were not added. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CreateContact

The **CreateContact** operation is used to add a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) to a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="CreateContact">
2. <wsdl:input message="tns:CreateContactSoapIn" />
3. <wsdl:output message="tns:CreateContactSoapOut" />
4. </wsdl:operation>

The protocol client sends a **CreateContactSoapIn** request message and the protocol server responds with a **CreateContactSoapOut** response message. The following diagram shows the message sequence.



Figure 5: Message sequence for a CreateContact operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **CreateContactSoapIn** | A request to initiate a **CreateContact** operation. |
| **CreateContactSoapOut** | A response from the protocol server at completion of the **CreateContact** operation. |

###### CreateContactSoapIn

This is the request message for a **CreateContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **CreateContact** element.

###### CreateContactSoapOut

This is the response message for a **CreateContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **CreateContactResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CreateContact** | Body of the **CreateContactSoapIn** message. |
| **CreateContactResponse** | Body of the **CreateContactSoapOut** message. |

###### CreateContact

The definition of the **CreateContact** element is as follows.

1. <s:element name="CreateContact">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. <s:element name="FirstName" type="s:string" />
6. <s:element name="LastName" type="s:string" />
7. <s:element name="ForwardingEmail" type="s:string" />
8. <s:element name="Flags" type="tns:ContactFlags" />
9. </s:sequence>
10. </s:complexType>
11. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128). Limitations on this value are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/). Additionally, this value MUST consist of 255 or fewer characters.

**FirstName:** The first name of the contact. Limitations on this value are specified in [MS-ADA1] section [2.273](http://msdn.microsoft.com/en-us/library/2f815063-da8b-41ad-a2a8-e55ce3a27139/).

**LastName:** The last name of the contact. Limitations on this value are specified in [[MS-ADA3]](%5BMS-ADA3%5D.pdf#Section_4517e8353ee644d4bb95a94b6966bfb0) section [2.276](http://msdn.microsoft.com/en-us/library/9e3f418e-9b1b-4a31-a88a-71336d811f65/).

**ForwardingEmail:** The [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) where e-mail messages are sent for the contact.

**Flags:** A **ContactFlags** simple type (section [2.2.5.1](#Section_156f2a4a26124705965ddf7cb4add70c)) that contains any additional properties or constraints on the contact.

###### CreateContactResponse

The definition of the **CreateContactResponse** element is as follows.

1. <s:element name="CreateContactResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="CreateContactResult" type="tns:RequestStatus"/>
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**CreateContactResult:** The protocol serverMUST return a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) in the response message. The response MUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The specified [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) contains zero characters or a semicolon (;). |
| RequestStatus.DuplicateAlias | The specified e-mail alias already exists in the DS. |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | A protocol server that is needed for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.Success | The operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### CreateDistributionGroup

The **CreateDistributionGroup** operation is used to create a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) in a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="CreateDistributionGroup">
2. <wsdl:input message="tns:CreateDistributionGroupSoapIn" />
3. <wsdl:output message="tns:CreateDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **CreateDistributionGroupSoapIn** request message and the protocol server responds with a **CreateDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 6: Message sequence for a CreateDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **CreateDistributionGroupSoapIn** | A request to initiate a **CreateDistributionGroup** operation. |
| **CreateDistributionGroupSoapOut** | A response from the protocol server at completion of the **CreateDistributionGroup** operation. |

###### CreateDistributionGroupSoapIn

This is the request message for a **CreateDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **CreateDistributionGroup** element.

###### CreateDistributionGroupSoapOut

This is the response message for a **CreateDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **CreateDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **CreateDistributionGroup** | Body of the **CreateDistributionGroupSoapIn** message. |
| **CreateDistributionGroupResponse** | Body of the **CreateDistributionGroupSoapOut** message. |

###### CreateDistributionGroup

The definition of the **CreateDistributionGroup** element is as follows.

1. <s:element name="CreateDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. <s:element name="Name" type="s:string" />
6. <s:element name="Description" type="s:string" minOccurs="0" />
7. <s:element name="ContactCN" type="s:string" minOccurs="0" />
8. <s:element name="Info" type="tns:RequestInfo" />
9. <s:element name="Flags" type="tns:DistributionGroupFlags" />
10. </s:sequence>
11. </s:complexType>
12. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). This value MUST be 255 or fewer characters. Additional limitations enforced on this value by the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/), which further restricts the number of characters to the "rangeUpper" value.

**Name:** The display name of the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [MS-ADA1] section [2.175](http://msdn.microsoft.com/en-us/library/54c39467-cda2-4af1-9454-13b81d30399a/).

**Description:** The description of the distribution group. This value MUST be 4,000 or fewer characters.

**ContactCN:** The e-mail alias of the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) to add to the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [MS-ADA1] section 2.110.

**Info:** A **RequestInfo** complex type (section [2.2.4.2](#Section_3308fb7bf917432d85bf2509f627c6c0)) that contains additional information about the request to create the distribution list.

**Flags:** A **DistributionGroupFlags** simple type (section [2.2.5.2](#Section_15c64e0810b14423a5d3fad0d88d4232)) that contains validation properties of the distribution list.

###### CreateDistributionGroupResponse

The definition of the **CreateDistributionGroupResponse** element is as follows.

1. <s:element name="CreateDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="CreateDistributionGroupResult" type="tns:RequestResponse" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**CreateDistributionGroupResult:** The protocol server MUST return a **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)). The **JobStatus** element of the **RequestResponse** typeMUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The specified [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) contains zero characters or a semicolon (;), or the **RequestorEmail** element of the **Info** element is NULL. |
| RequestStatus.DuplicateAlias | The specified e-mail alias already exists in the collection of creation requests that are pending approval, or automatic approvals are enabled and the specified e-mail aliasalready exists in the DS. |
| RequestStatus.AccessDenied | Automatic approvals are enabled and the protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | Automatic approvals are enabled and a protocol server that is needed for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.ObjectNotFound | Automatic approvals are enabled and the e-mail alias specified by the **ContactCN** element cannot be found in the DS. |
| RequestStatus.PendingApproval | Automatic approvals are disabled and a job was created for the request. |
| RequestStatus.Success | Automatic approvals are enabled and the operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteContact

The **DeleteContact** operation is used to delete a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) from a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="DeleteContact">
2. <wsdl:input message="tns:DeleteContactSoapIn" />
3. <wsdl:output message="tns:DeleteContactSoapOut" />
4. </wsdl:operation>

The protocol client sends a **DeleteContactSoapIn** request message and the protocol server responds with a **DeleteContactSoapOut** response message. The following diagram shows the message sequence.



Figure 7: Message sequence for a DeleteContact operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **DeleteContactSoapIn** | A request to initiate a **DeleteContact** operation. |
| **DeleteContactSoapOut** | A response from the protocol server at completion of the **DeleteContact** operation. |

###### DeleteContactSoapIn

This is the request message for a **DeleteContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **DeleteContact** element.

###### DeleteContactSoapOut

This is the response message for a **DeleteContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **DeleteContactResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteContact** | Body of the **DeleteContactSoapIn** message. |
| **DeleteContactResponse** | Body of the **DeleteContactSoapOut** message. |

###### DeleteContact

The definition of the **DeleteContact** element is as follows.

1. <s:element name="DeleteContact">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) to delete from the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e). Limitations on this value are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/). Additionally, this value MUST consist of 255 or fewer characters.

###### DeleteContactResponse

The definition of the **DeleteContactResponse** element is as follows.

1. <s:element name="DeleteContactResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="DeleteContactResult" type="tns:RequestStatus"/>
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**DeleteContactResult:** The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) in the response message. The response MUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The specified [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) contains zero characters or a semicolon (;). |
| RequestStatus.ObjectNotFound | The [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) cannot be found in the DS. |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | A protocol server that is needed for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.Success | The operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteDistributionGroup

The **DeleteDistributionGroup** operation is used to delete an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) from a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="DeleteDistributionGroup">
2. <wsdl:input message="tns:DeleteDistributionGroupSoapIn" />
3. <wsdl:output message="tns:DeleteDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **DeleteDistributionGroupSoapIn** request message, and the protocol server responds with a **DeleteDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 8: Message sequence for a DeleteDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **DeleteDistributionGroupSoapIn** | A request to initiate a **DeleteDistributionGroup** operation. |
| **DeleteDistributionGroupSoapOut** | A response from the protocol server at completion of the **DeleteDistributionGroup** operation. |

###### DeleteDistributionGroupSoapIn

This is the request message for a **DeleteDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **DeleteDistributionGroup** element.

###### DeleteDistributionGroupSoapOut

This is the response message for a **DeleteDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **DeleteDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteDistributionGroup** | Body of the **DeleteDistributionGroupSoapIn** message. |
| **DeleteDistributionGroupResponse** | Body of the **DeleteDistributionGroupSoapOut** message. |

###### DeleteDistributionGroup

The definition of the **DeleteDistributionGroup** element is as follows.

1. <s:element name="DeleteDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. <s:element name="Info" type="tns:RequestInfo" />
6. </s:sequence>
7. </s:complexType>
8. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) to delete. This value MUST be 255 or fewer characters. Additional limitations enforced on this value by the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/), which further restricts the number of characters to the "rangeUpper" value.

**Info:** A **RequestInfo** complex type (section [2.2.4.2](#Section_3308fb7bf917432d85bf2509f627c6c0)) that contains additional information about the request to delete the distribution list.

###### DeleteDistributionGroupResponse

The definition of the **DeleteDistributionGroupResponse** element is as follows.

1. <s:element name="DeleteDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="DeleteDistributionGroupResult" type="tns:RequestResponse" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**DeleteDistributionGroupResult:** The protocol server MUST return a **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)). The **JobStatus** element of the **RequestResponse** typeMUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The specified [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) contains zero characters or a semicolon (;), or the **RequestorEmail** element of the **Info** element is NULL. |
| RequestStatus.ObjectNotFound | The specified e-mail aliascannot be found in either the DS or the collection of [**distribution lists**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) that are pending creation. |
| RequestStatus.AccessDenied | Automatic approvals are enabled and the protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | Automatic approvals are enabled and a protocol server that is needed for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.PendingApproval | Automatic approvals are disabled and a job was created for the deletion request.  |
| RequestStatus.Success | The operation finished successfully; the distribution group was deleted or a pending request to create the distribution group was cancelled. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetJobStatus

The **GetJobStatus** operation is used to request an update on the status of an existing request that was created by any of the following operations:

* **CreateDistributionGroup** (section [3.1.4.4](#Section_bbf607a3531c453791a7673e1cc511d6))
* **DeleteDistributionGroup** (section [3.1.4.6.2.1](#Section_1b2e7a0dd4a44770acf974d5ac64026d))
* **ModifyDistributionGroup** (section [3.1.4.9](#Section_b120f3e5bb964565a00d4ef410c96a17))
* **RenameDistributionGroup** (section [3.1.4.10](#Section_f92a79614fa046e2a411626ee2420846))

If the request was created by a **CreateDistributionGroup** operation, and the **RequestStatus** element (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) returned by the **GetJobStatus** operation contains any value other than "PendingApproval"or "Success", both the job and the corresponding job identifier, as specified by the **JobID** element, are removed from the collection of jobs.

If the request was created by any operation other than a **CreateDistributionGroup** operation, and the **RequestStatus** element (section 2.2.5.4) returned by the **GetJobStatus** operation contains any value other than "PendingApproval", both the job and the corresponding job identifier, as specified by the **JobID** element, are removed from the collection of jobs.

In all other cases, neither the job nor the corresponding job identifier is removed from the collection of jobs.

1. <wsdl:operation name="GetJobStatus">
2. <wsdl:input message="tns:GetJobStatusSoapIn" />
3. <wsdl:output message="tns:GetJobStatusSoapOut" />
4. </wsdl:operation>

The protocol client sends a **GetJobStatusSoapIn** request message, and the protocol server responds with a **GetJobStatusSoapOut** response message. The following diagram shows the message sequence.



Figure 9: Message sequence for a GetJobStatus operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **GetJobStatusSoapIn** | A request to initiate a **GetJobStatus** operation. |
| **GetJobStatusSoapOut** | A response from the protocol server at completion of the **GetJobStatus** operation. |

###### GetJobStatusSoapIn

This is the request message for a **GetJobStatus** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **GetJobStatus** element.

###### GetJobStatusSoapOut

This is the response message for a **GetJobStatus** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **GetJobStatusResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetJobStatus** | Body of the **GetJobStatusSoapIn** message. |
| **GetJobStatusResponse** | Body of the **GetJobStatusSoapOut** message. |

###### GetJobStatus

The definition of the **GetJobStatus** element is as follows.

1. <s:element name="GetJobStatus">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="JobId" type="s:int" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**JobId:** The identifier that is returned in a **RequestResponse** type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)) by the original operation, which is either a **CreateDistributionGroup** (section [3.1.4.4](#Section_bbf607a3531c453791a7673e1cc511d6)), **DeleteDistributionGroup** (section [3.1.4.6.2.1](#Section_1b2e7a0dd4a44770acf974d5ac64026d)), **ModifyDistributionGroup** (section [3.1.4.9](#Section_b120f3e5bb964565a00d4ef410c96a17)), or **RenameDistributionGroup** (section [3.1.4.10](#Section_f92a79614fa046e2a411626ee2420846)) operation. This identifier MUST be in the collection of jobs. If the identifier does not exist in the collection of jobs, the protocol server MUST return a SOAP fault exception.

###### GetJobStatusResponse

The definition of the **GetJobStatusResponse** element is as follows.

1. <s:element name="GetJobStatusResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="GetJobStatusResult" type="tns:RequestResponse" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**GetJobStatusResult:** The protocol server MUST return a **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)) in the response message. The **JobStatus** element of the **RequestResponse** typeMUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.InvalidArgument | The value of the **JobId** element is less than or equal to zero. |
| RequestStatus.ApprovalDenied | Approval was denied for the job specified by the **JobId** element. |
| RequestStatus.PendingApproval | Approval has been neither granted nor denied yet for the job specified by the **JobId** element. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.Success | Approval was granted for the job specified by the **JobId** element. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ModifyContact

The **ModifyContact** operation is used to modify the properties of an existing [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) in a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="ModifyContact">
2. <wsdl:input message="tns:ModifyContactSoapIn" />
3. <wsdl:output message="tns:ModifyContactSoapOut" />
4. </wsdl:operation>

The protocol client sends a **ModifyContactSoapIn** request message, and the protocol server responds with a **ModifyContactSoapOut** response message. The following diagram shows the message sequence.



Figure 10: Message sequence for a ModifyContact operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **ModifyContactSoapIn** | A request to initiate a **ModifyContact** operation. |
| **ModifyContactSoapOut** | A response from the protocol server at completion of the **ModifyContact** operation. |

###### ModifyContactSoapIn

This is the request message for a **ModifyContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ModifyContact** element.

###### ModifyContactSoapOut

This is the response message for a **ModifyContact** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyContact

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ModifyContactResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ModifyContactStatus** | Body of the **ModifyContactSoapIn** message. |
| **ModifyContactResponse** | Body of the **ModifyContactSoapOut** message. |

###### ModifyContact

The definition of the **ModifyContact** element is as follows.

1. <s:element name="ModifyContact">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="OldAlias" type="s:string" />
5. <s:element name="NewAlias" type="s:string" minOccurs="0"/>
6. <s:element name="FirstName" type="s:string" />
7. <s:element name="LastName" type="s:string" />
8. <s:element name="ForwardingEmail" type="s:string" minOccurs="0"/>
9. <s:element name="Flags" type="tns:ContactFlags" />
10. </s:sequence>
11. </s:complexType>
12. </s:element>

**OldAlias:** The current [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128). Limitations on this value are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/). Additionally, this value MUST consist of 255 or fewer characters.

**NewAlias:** The new e-mail alias of the contact. If a value is not specified, the e-mail alias of the contact is not changed. Limitations on this value are specified in [MS-ADA1] section 2.110. Additionally, this value MUST consist of 255 or fewer characters.

**FirstName:** The first name of the contact. Limitations on this value are specified in [MS-ADA1] section [2.273](http://msdn.microsoft.com/en-us/library/2f815063-da8b-41ad-a2a8-e55ce3a27139/).

**LastName:** The last name of the contact. Limitations on this value are specified in [[MS-ADA3]](%5BMS-ADA3%5D.pdf#Section_4517e8353ee644d4bb95a94b6966bfb0) section [2.276](http://msdn.microsoft.com/en-us/library/9e3f418e-9b1b-4a31-a88a-71336d811f65/).

**ForwardingEmail:** The [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) where e-mail messages are forwarded for the contact.

**Flags:** A **ContactFlags** simple type (section [2.2.5.1](#Section_156f2a4a26124705965ddf7cb4add70c)) that contains any additional properties or constraints on the contact (3).

###### ModifyContactResponse

The definition of the **ModifyContactResponse** element is as follows.

1. <s:element name="ModifyContactResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="ModifyContactResult" type="tns:RequestStatus"/>
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**ModifyContactResult:** The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) in the response message. The response MUST contain one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The value of the **OldAlias** element contains zero characters, or the value of the **OldAlias** or **NewAlias** element contains a semicolon (;). |
| RequestStatus.DuplicateAlias | A value was specified by the **NewAlias** element and that value is not equal to the value of the **OldAlias** element, ignoring case. However, the value specified by the **NewAlias** element already exists in the DS. |
| RequestStatus.AccessDenied | The protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | A protocol server that is needed for the operation cannot be accessed. |
| RequestStatus.ObjectNotFound | The value specified by the **OldAlias** element does not exist in the DS. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.Success | The operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ModifyDistributionGroup

The **ModifyDistributionGroup** operation is used to change properties of an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) in a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="ModifyDistributionGroup">
2. <wsdl:input message="tns:ModifyDistributionGroupSoapIn" />
3. <wsdl:output message="tns:ModifyDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **ModifyDistributionGroupSoapIn** request message, and the protocol server responds with a **ModifyDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 11: Message sequence for a ModifyDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **ModifyDistributionGroupSoapIn** | A request to initiate a **ModifyDistributionGroup** operation. |
| **ModifyDistributionGroupSoapOut** | A response from the protocol server at completion of the **ModifyDistributionGroup** operation. |

###### ModifyDistributionGroupSoapIn

This is the request message for a **ModifyDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ModifyDistributionGroup** element.

###### ModifyDistributionGroupSoapOut

This is the response message for a **ModifyDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **ModifyDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ModifyDistributionGroup** | Body of the **ModifyDistributionGroupSoapIn** message. |
| **ModifyDistributionGroupResponse** | Body of the **ModifyDistributionGroupSoapOut** message. |

###### ModifyDistributionGroup

The definition of the **ModifyDistributionGroup** element is as follows.

1. <s:element name="ModifyDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="Alias" type="s:string" />
5. <s:element name="Name" type="s:string" />
6. <s:element name="Description" type="s:string" minOccurs="0" />
7. <s:element name="ContactCN" type="s:string" minOccurs="0" />
8. <s:element name="Info" type="tns:RequestInfo" />
9. <s:element name="Flags" type="tns:DistributionGroupFlags" />
10. </s:sequence>
11. </s:complexType>
12. </s:element>

**Alias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). This value MUST be 255 or fewer characters. Additional limitations enforced on this value by the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/), which further restricts the number of characters to the "rangeUpper" value.

**Name:** The new display name of the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [MS-ADA1] section [2.175](http://msdn.microsoft.com/en-us/library/54c39467-cda2-4af1-9454-13b81d30399a/).

**Description:** The new description of the distribution list. This value MUST be 4,000 or fewer characters.

**ContactCN:** The e-mail alias of a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) to add to the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [MS-ADA1] section 2.110.

**Info:** A **RequestInfo** complex type (section [2.2.4.2](#Section_3308fb7bf917432d85bf2509f627c6c0)) that contains additional information about the request.

**Flags:** A **DistributionGroupFlags** simple type (section [2.2.5.2](#Section_15c64e0810b14423a5d3fad0d88d4232)) that contains updated validation properties or constraints on the distribution list.

###### ModifyDistributionGroupResponse

The definition of the **ModifyDistributionGroupResponse** element is as follows.

1. <s:element name="ModifyDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="ModifyDistributionGroupResult" type="tns:RequestResponse" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**ModifyDistributionGroupResult:** The protocol server MUST return a **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)) in the response message. The value of the **JobStatus** element of the **RequestResponse** typeMUST be one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The value specified by the **Alias** element is not valid or the **RequestorEmail** element of the **Info** element is NULL. |
| RequestStatus.ObjectNotFound | The value specified by the **Alias** elementcannot be found in the DS or automatic approvals are enabled and the value specified by the **ContactCN** element cannot be found in the DS. |
| RequestStatus.AccessDenied | Automatic approvals are enabled but the protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | Automatic approvals are enabled and a protocol server that is required for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.PendingApproval | Automatic approvals are disabled and a job was created for the request.  |
| RequestStatus.Success | Automatic approvals are enabled and the operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RenameDistributionGroup

The **RenameDistributionGroup** operation is used to change the name of an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) in a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

1. <wsdl:operation name="RenameDistributionGroup">
2. <wsdl:input message="tns:RenameDistributionGroupSoapIn" />
3. <wsdl:output message="tns:RenameDistributionGroupSoapOut" />
4. </wsdl:operation>

The protocol client sends a **RenameDistributionGroupSoapIn** request message, and the protocol server responds with a **RenameDistributionGroupSoapOut** response message. The following diagram shows the message sequence.



Figure 12: Message sequence for a RenameDistributionGroup operation

##### Messages

The following table summarizes the set of [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) message definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **RenameDistributionGroupSoapIn** | A request to initiate a **RenameDistributionGroup** operation. |
| **RenameDistributionGroupSoapOut** | A response from the protocol server at completion of the **RenameDistributionGroup** operation. |

###### RenameDistributionGroupSoapIn

This is the request message for a **RenameDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **RenameDistributionGroup** element.

###### RenameDistributionGroupSoapOut

This is the response message for a **RenameDistributionGroup** operation.

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value of the message is defined as follows.

1. http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionGroup

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **RenameDistributionGroupResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RenameDistributionGroup** | Body of the **RenameDistributionGroupSoapIn** message. |
| **RenameDistributionGroupResponse** | Body of the **RenameDistributionGroupSoapOut** message. |

###### RenameDistributionGroup

The definition of the **RenameDistributionGroup** is as follows.

1. <s:element name="RenameDistributionGroup">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="OldAlias" type="s:string" />
5. <s:element name="NewAlias" type="s:string" />
6. <s:element name="Info" type="tns:RequestInfo" />
7. </s:sequence>
8. </s:complexType>
9. </s:element>

**OldAlias:** The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591). This value MUST be 255 or fewer characters. Additional limitations enforced on this value by the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) are specified in [[MS-ADA1]](%5BMS-ADA1%5D.pdf#Section_19528560f41e4623a406dabcfff0660f) section [2.110](http://msdn.microsoft.com/en-us/library/ffc29c00-e8d1-4111-9562-8e6ae308c43a/), which further restricts the number of characters to the "rangeUpper" value.

**NewAlias:** The new e-mail alias for the distribution list. This value MUST be 255 or fewer characters. Additional limitations enforced on this value by the DS are specified in [MS-ADA1] section 2.110, which further restricts the number of characters to the "rangeUpper" value.

**Info:** A **RequestInfo** complex type (section [2.2.4.2](#Section_3308fb7bf917432d85bf2509f627c6c0)) that contains additional information about the request.

###### RenameDistributionGroupResponse

The definition of the **RenameDistributionGroupResponse** element is as follows.

1. <s:element name="RenameDistributionGroupResponse">
2. <s:complexType>
3. <s:sequence>
4. <s:element name="RenameDistributionGroupResult" type="tns:RequestResponse" />
5. </s:sequence>
6. </s:complexType>
7. </s:element>

**RenameDistributionGroupResult:** The protocol server MUST return a **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)) in the response message. The value of the **JobStatus** element of the **RequestResponse** typeMUST be one of the values described in the following table.

| Value | Description |
| --- | --- |
| RequestStatus.ServiceNotConfigured | The [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e) is not configured. |
| RequestStatus.InvalidArgument | The value specified by the **OldAlias** element or the **NewAlias** element contains zero characters or a semicolon (;), or the **RequestorEmail** element of the **Info** element is NULL. |
| RequestStatus.ObjectNotFound | The value specified by the **OldAlias** elementcannot be found in the DS. |
| RequestStatus.DuplicateAlias | The value specified by the **NewAlias** element already exists in the DS. |
| RequestStatus.AccessDenied | Automatic approvals are enabled and the protocol client does not have sufficient permission to access one or more of the objects that are needed for the operation. |
| RequestStatus.ServerUnavailable | Automatic approvals are enabled and a protocol server that is required for the operation cannot be accessed. |
| RequestStatus.InternalError | The operation failed because an unexpected internal error occurred. |
| RequestStatus.PendingApproval | Automatic approvals are disabled and a job was created for the request.  |
| RequestStatus.Success | Automatic approvals are enabled and the operation finished successfully. |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

## Create and Add a User to a Distribution List

This scenario demonstrates how to create a new [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591), add a user to a distribution list, and verify that the requests were approved.

### Create a Distribution List

In this example, a new [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) named "DistGroup01" is created on the protocol server, in response to a request from a protocol client. The [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of the distribution list is "DistGroup01".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <CreateDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>DistGroup01</Alias>
5. <Name>DistGroup01</Name>
6. <ContactCN />
7. <Info>
8. <RequestorEmail>adam.carter@example.com</RequestorEmail>
9. <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
10. </Info>
11. <Flags>None</Flags>
12. </CreateDistributionGroup>
13. </soap:Body>
14. </soap:Envelope>

The protocol server is configured to approve requests automatically. Therefore, it creates the distribution list and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <CreateDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <CreateDistributionGroupResult>
5. <JobID>0</JobID>
6. <JobStatus>Success</JobStatus>
7. <Alias>DistGroup01</Alias>
8. </CreateDistributionGroupResult>
9. </CreateDistributionGroupResponse>
10. </soap:Body>
11. </soap:Envelope>

### Add a User to a Distribution List

In this example, the user uniquely identified by the [**domain account**](#gt_d0be6ce0-cc28-43cd-bd6b-6f324fcb8397) "Example\smasters" is added to a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) named "addmembersdl".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeUsersMembershipInDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>addmembersdl</Alias>
5. <AddNt4NameList>
6. <string>Example\smasters</string>
7. </AddNt4NameList>
8. <DeleteNt4NameList />
9. <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>
10. </ChangeUsersMembershipInDistributionGroup>
11. </soap:Body>
12. </soap:Envelope>

The protocol server adds the domain account "Example\smasters" to the distribution list named "addmembersdl" and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeUsersMembershipInDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <ChangeUsersMembershipInDistributionGroupResult>Success</ChangeUsersMembershipInDistributionGroupResult>
5. </ChangeUsersMembershipInDistributionGroupResponse>
6. </soap:Body>
7. </soap:Envelope>

## Create and Add a Contact to a Distribution List

This scenario demonstrates how to create a new [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) and how to add a contact to an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591).

### Create a Contact

In this example, a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) named "Steve Masters" is added to the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e). The contact’s [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) is "Steve.Masters". The contact’s forwarding e-mail address is "Steve.Masters@example.com".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <CreateContact xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>Steve.Masters</Alias>
5. <FirstName>Steve</FirstName>
6. <LastName>Masters</LastName>
7. <ForwardingEmail>steve.masters@example.com</ForwardingEmail>
8. <Flags>None</Flags>
9. </CreateContact>
10. </soap:Body>
11. </soap:Envelope>

The protocol server adds the contact "Steve Masters" to the DS and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <CreateContactResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <CreateContactResult>Success</CreateContactResult>
5. </CreateContactResponse>
6. </soap:Body>
7. </soap:Envelope>

### Add a Contact to a Distribution List

In this example, a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) with the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) "Lori.Kane" is added to the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) named "AddMembersDL".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeContactsMembershipInDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>AddMembersDL</Alias>
5. <AddListForContacts>
6. <string>Lori.Kane</string>
7. </AddListForContacts>
8. <DeleteListForContacts>
9. <string />
10. </DeleteListForContacts>
11. <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>
12. </ChangeContactsMembershipInDistributionGroup>
13. </soap:Body>
14. </soap:Envelope>

The protocol server adds the contact to the distribution list and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeContactsMembershipInDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <ChangeContactsMembershipInDistributionGroupResult>Success</ChangeContactsMembershipInDistributionGroupResult>
5. </ChangeContactsMembershipInDistributionGroupResponse>
6. </soap:Body>
7. </soap:Envelope>

## Modify a Contact

This scenario demonstrates how to modify an existing [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) in a [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e). The contact’s (3) [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) is changed from "steve.masters" to "steved.masters". The contact’s (3) name is changed from "Steve Masters" to "Steve D Masters". The contact’s (3) forwarding e-mail address is changed from "steve.masters@example.com" to "steved.masters@example.com".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ModifyContact xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <OldAlias>steve.masters</OldAlias>
5. <NewAlias>steved.masters</NewAlias>
6. <FirstName>Steve D</FirstName>
7. <LastName>Masters</LastName>
8. <ForwardingEmail>steved.masters@example.com</ForwardingEmail>
9. <Flags>None</Flags>
10. </ModifyContact>
11. </soap:Body>
12. </soap:Envelope>

The protocol server retrieves the existing contact, updates the requested properties of that contact (3), and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ModifyContactResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <ModifyContactResult>Success</ModifyContactResult>
5. </ModifyContactResponse>
6. </soap:Body>
7. </soap:Envelope>

## Remove a Contact and Rename a Distribution List

This scenario demonstrates how to remove a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) from a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591), delete a contact, and rename a distribution list.

### Remove a Contact from a Distribution List

In this example, a [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) with the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) "steved.masters" is removed from the [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) named "AddMembersDL".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeContactsMembershipInDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>AddMembersDL</Alias>
5. <AddListForContacts>
6. <string />
7. </AddListForContacts>
8. <DeleteListForContacts>
9. <string>steved.masters</string>
10. </DeleteListForContacts>
11. <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>
12. </ChangeContactsMembershipInDistributionGroup>
13. </soap:Body>
14. </soap:Envelope>

The protocol server removes the contact from the distribution list and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ChangeContactsMembershipInDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <ChangeContactsMembershipInDistributionGroupResult>Success</ChangeContactsMembershipInDistributionGroupResult>
5. </ChangeContactsMembershipInDistributionGroupResponse>
6. </soap:Body>
7. </soap:Envelope>

### Delete a Contact

In this example, the [**contact**](#gt_48d3e923-3081-4b1c-a8b4-db07cc022128) with the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) "steved.masters" is deleted from the [**DS**](#gt_c36db657-3138-4d9a-9289-ded5cbb8b40e).

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteContact xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>steved.masters</Alias>
5. </DeleteContact>
6. </soap:Body>
7. </soap:Envelope>

The protocol server deletes the contact (3) with the specified e-mail alias, and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteContactResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <DeleteContactResult>Success</DeleteContactResult>
5. </DeleteContactResponse>
6. </soap:Body>
7. </soap:Envelope>

### Change the Name of a Distribution List

In this example, a protocol client with the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) "adam.carter@example.com" submits a request to change the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) of an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) from "DistGroup01" to "RenamedDG01".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <RenameDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <OldAlias>DistGroup01</OldAlias>
5. <NewAlias>RenamedDG01</NewAlias>
6. <Info>
7. <RequestorEmail>adam.carter@example.com</RequestorEmail>
8. <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
9. </Info>
10. </RenameDistributionGroup>
11. </soap:Body>
12. </soap:Envelope>

The protocol server is not configured to approve requests automatically. Therefore, it creates a job for the request, stores the job as a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) with the value "PendingApproval", and returns information about this job in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <RenameDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <RenameDistributionGroupResult>
5. <JobID>76</JobID>
6. <JobStatus>PendingApproval</JobStatus>
7. <Alias>DistGroup01</Alias>
8. </RenameDistributionGroupResult>
9. </RenameDistributionGroupResponse>
10. </soap:Body>
11. </soap:Envelope>

## Modify a Distribution List

In this example, a protocol client with the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) "adam.carter@example.com" submits a request to change the display name of an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) from "RenamedDG01" to "NewNameDG01".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ModifyDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>RenamedDG01</Alias>
5. <Name>NewNameDG01</Name>
6. <Description>any description</Description>
7. <Info>
8. <RequestorEmail>adam.carter@example.com</RequestorEmail>
9. <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
10. </Info>
11. <Flags>None</Flags>
12. </ModifyDistributionGroup>
13. </soap:Body>
14. </soap:Envelope>

The protocol server is not configured to approve requests automatically. Therefore, it creates a job for the modify request, stores that job as a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) with the value "PendingApproval", and returns information about the job in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <ModifyDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <ModifyDistributionGroupResult>
5. <JobID>78</JobID>
6. <JobStatus>PendingApproval</JobStatus>
7. <Alias>RenamedDG01</Alias>
8. </ModifyDistributionGroupResult>
9. </ModifyDistributionGroupResponse>
10. </soap:Body>
11. </soap:Envelope>

## Delete a Distribution List

 In this example, a protocol client with the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) "adam.carter@example.com" submits a request to delete an existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591), which has the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) "RenamedDG01".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>RenamedDG01</Alias>
5. <Info>
6. <RequestorEmail>adam.carter@example.com</RequestorEmail>
7. <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
8. </Info>
9. </DeleteDistributionGroup>
10. </soap:Body>
11. </soap:Envelope>

The protocol server is configured to approve requests automatically. Therefore, it deletes the distribution list and returns the status value "Success" in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <DeleteDistributionGroupResult>
5. <JobID>0</JobID>
6. <JobStatus>Success</JobStatus>
7. <Alias>RenamedDG01</Alias>
8. </DeleteDistributionGroupResult>
9. </DeleteDistributionGroupResponse>
10. </soap:Body>
11. </soap:Envelope>

## Check the Status of a Deletion Request

This scenario demonstrates how to delete a [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) and check the status of that request before and after the request is processed by the protocol server.

### Delete a Distribution List

In this example, a protocol client with the [**e-mail address**](#gt_2abe03c8-7fe4-4170-833f-9b1112d972b6) "adam.carter@example.com" submits a request to delete the existing [**distribution list**](#gt_ccbb0292-fefe-493f-80c3-11533e473591) that has the [**e-mail alias**](#gt_63ec4af2-03f2-4065-8471-c87827aa459d) "SorosalDL6".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteDistributionGroup xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <Alias>SorosalDL6</Alias>
5. <Info>
6. <RequestorEmail>adam.carter@example.com</RequestorEmail>
7. <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
8. </Info>
9. </DeleteDistributionGroup>
10. </soap:Body>
11. </soap:Envelope>

The protocol server is not configured to approve requests automatically. Therefore, it creates a job for the request, stores that job as a **RequestStatus** simple type (section [2.2.5.4](#Section_56a44afde79543f8b73179be9dc6bbf0)) with the value "PendingApproval", and returns information about the job in the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <DeleteDistributionGroupResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <DeleteDistributionGroupResult>
5. <JobID>108</JobID>
6. <JobStatus>PendingApproval</JobStatus>
7. <Alias>SorosalDL6</Alias>
8. </DeleteDistributionGroupResult>
9. </DeleteDistributionGroupResponse>
10. </soap:Body>
11. </soap:Envelope>

### Check the Status of a Job

In this example, a protocol client submits a request to check the status of a job that is associated with the job identifier "108".

The protocol client sends the following request message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <GetJobStatus xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <JobId>108</JobId>
5. </GetJobStatus>
6. </soap:Body>
7. </soap:Envelope>

By referencing the **JobID** element of the **RequestResponse** complex type (section [2.2.4.3](#Section_88caef0ea12e43c7afc87a5ddb03adcd)) that stores information about the job, the protocol server finds the job, retrieves the status, and sends the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <GetJobStatusResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <GetJobStatusResult>
5. <JobID>108</JobID>
6. <Comment />
7. <JobStatus>PendingApproval</JobStatus>
8. <Alias>SorosalDL6</Alias>
9. </GetJobStatusResult>
10. </GetJobStatusResponse>
11. </soap:Body>
12. </soap:Envelope>

After the job completes successfully, the protocol server deletes it from the list of jobs and returns the following response message:

1. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <soap:Body>
3. <GetJobStatusResponse xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
4. <GetJobStatusResult>
5. <JobID>108</JobID>
6. <Comment />
7. <JobStatus>Success</JobStatus>
8. <Alias>SorosalDL6</Alias>
9. </GetJobStatusResult>
10. </GetJobStatusResponse>
11. </soap:Body>
12. </soap:Envelope>

If a protocol client requests the status of the job after it is deleted, the protocol server returns the following error:

1. System.Reflection.TargetInvocationException: Exception has been thrown by the target of an invocation. ---> System.Web.Services.Protocols.SoapException: Server was unable to process request. ---> Value does not fall within the expected range.
2. at System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(SoapClientMessage message, WebResponse response, Stream responseStream, Boolean asyncCall)
3. at System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String methodName, Object[] parameters)
4. at WebSvcClient.SharepointEmailWSProxy.SharepointEmailWS.GetJobStatus(Int32 JobId)
5. --- End of inner exception stack trace ---
6. at System.RuntimeMethodHandle.\_InvokeMethodFast(Object target, Object[] arguments, SignatureStruct& sig, MethodAttributes methodAttributes, RuntimeTypeHandle typeOwner)
7. at System.RuntimeMethodHandle.InvokeMethodFast(Object target, Object[] arguments, Signature sig, MethodAttributes methodAttributes, RuntimeTypeHandle typeOwner)
8. at System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder binder, Object[] parameters, CultureInfo culture, Boolean skipVisibilityChecks)
9. at System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder binder, Object[] parameters, CultureInfo culture)
10. at WebSvcClient.ProxyWrapper.WebMethodCallWorker()

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

None.

# Appendix A: Full WSDL

For ease of implementation, the full WSDL and schema are provided in this appendix.

1. <?xml version="1.0" encoding="utf-8"?>
2. <wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/" xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/" xmlns:tns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/" xmlns:s1="http://microsoft.com/wsdl/types/" xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:http="http://schemas.xmlsoap.org/wsdl/http/" targetNamespace="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
3. <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Sharepoint Email Integration Web Service</wsdl:documentation>
4. <wsdl:types>
5. <s:schema elementFormDefault="qualified" targetNamespace="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
6. <s:import namespace="http://microsoft.com/wsdl/types/" />
7. <s:element name="CreateContact">
8. <s:complexType>
9. <s:sequence>
10. <s:element name="Alias" type="s:string" />
11. <s:element name="FirstName" type="s:string" />
12. <s:element name="LastName" type="s:string" />
13. <s:element name="ForwardingEmail" type="s:string" />
14. <s:element name="Flags" type="tns:ContactFlags" />
15. </s:sequence>
16. </s:complexType>
17. </s:element>
18. <s:simpleType name="ContactFlags">
19. <s:restriction base="s:string">
20. <s:enumeration value="None" />
21. <s:enumeration value="OnlyAllowAuthenticatedEmail" />
22. </s:restriction>
23. </s:simpleType>
24. <s:element name="CreateContactResponse">
25. <s:complexType>
26. <s:sequence>
27. <s:element name="CreateContactResult" type="tns:RequestStatus" />
28. </s:sequence>
29. </s:complexType>
30. </s:element>
31. <s:simpleType name="RequestStatus">
32. <s:restriction base="s:string">
33. <s:enumeration value="Success" />
34. <s:enumeration value="PendingApproval" />
35. <s:enumeration value="ApprovalDenied" />
36. <s:enumeration value="DuplicateAlias" />
37. <s:enumeration value="InvalidArgument" />
38. <s:enumeration value="ServiceNotConfigured" />
39. <s:enumeration value="AccessDenied" />
40. <s:enumeration value="ServerUnavailable" />
41. <s:enumeration value="ObjectNotFound" />
42. <s:enumeration value="InvalidMember" />
43. <s:enumeration value="InternalError" />
44. </s:restriction>
45. </s:simpleType>
46. <s:element name="DeleteContact">
47. <s:complexType>
48. <s:sequence>
49. <s:element name="Alias" type="s:string" />
50. </s:sequence>
51. </s:complexType>
52. </s:element>
53. <s:element name="DeleteContactResponse">
54. <s:complexType>
55. <s:sequence>
56. <s:element name="DeleteContactResult" type="tns:RequestStatus" />
57. </s:sequence>
58. </s:complexType>
59. </s:element>
60. <s:element name="ModifyContact">
61. <s:complexType>
62. <s:sequence>
63. <s:element name="OldAlias" type="s:string" />
64. <s:element minOccurs="0" name="NewAlias" type="s:string" />
65. <s:element name="FirstName" type="s:string" />
66. <s:element name="LastName" type="s:string" />
67. <s:element minOccurs="0" name="ForwardingEmail" type="s:string" />
68. <s:element name="Flags" type="tns:ContactFlags" />
69. </s:sequence>
70. </s:complexType>
71. </s:element>
72. <s:element name="ModifyContactResponse">
73. <s:complexType>
74. <s:sequence>
75. <s:element name="ModifyContactResult" type="tns:RequestStatus" />
76. </s:sequence>
77. </s:complexType>
78. </s:element>
79. <s:element name="CreateDistributionGroup">
80. <s:complexType>
81. <s:sequence>
82. <s:element name="Alias" type="s:string" />
83. <s:element name="Name" type="s:string" />
84. <s:element minOccurs="0" name="Description" type="s:string" />
85. <s:element minOccurs="0" name="ContactCN" type="s:string" />
86. <s:element name="Info" type="tns:RequestInfo" />
87. <s:element name="Flags" type="tns:DistributionGroupFlags" />
88. </s:sequence>
89. </s:complexType>
90. </s:element>
91. <s:complexType name="RequestInfo">
92. <s:sequence>
93. <s:element name="RequestorEmail" type="s:string" />
94. <s:element minOccurs="0" name="Justification" type="s:string" />
95. <s:element name="RequestId" type="s1:guid" />
96. </s:sequence>
97. </s:complexType>
98. <s:element name="CreateDistributionGroupResponse">
99. <s:complexType>
100. <s:sequence>
101. <s:element name="CreateDistributionGroupResult" type="tns:RequestResponse" />
102. </s:sequence>
103. </s:complexType>
104. </s:element>
105. <s:complexType name="RequestResponse">
106. <s:sequence>
107. <s:element name="JobID" type="s:int" />
108. <s:element minOccurs="0" name="Comment" type="s:string" />
109. <s:element name="JobStatus" type="tns:RequestStatus" />
110. <s:element minOccurs="0" name="Alias" type="s:string" />
111. </s:sequence>
112. </s:complexType>
113. <s:element name="DeleteDistributionGroup">
114. <s:complexType>
115. <s:sequence>
116. <s:element name="Alias" type="s:string" />
117. <s:element name="Info" type="tns:RequestInfo" />
118. </s:sequence>
119. </s:complexType>
120. </s:element>
121. <s:element name="DeleteDistributionGroupResponse">
122. <s:complexType>
123. <s:sequence>
124. <s:element name="DeleteDistributionGroupResult" type="tns:RequestResponse" />
125. </s:sequence>
126. </s:complexType>
127. </s:element>
128. <s:element name="RenameDistributionGroup">
129. <s:complexType>
130. <s:sequence>
131. <s:element name="OldAlias" type="s:string" />
132. <s:element name="NewAlias" type="s:string" />
133. <s:element name="Info" type="tns:RequestInfo" />
134. </s:sequence>
135. </s:complexType>
136. </s:element>
137. <s:element name="RenameDistributionGroupResponse">
138. <s:complexType>
139. <s:sequence>
140. <s:element name="RenameDistributionGroupResult" type="tns:RequestResponse" />
141. </s:sequence>
142. </s:complexType>
143. </s:element>
144. <s:element name="ModifyDistributionGroup">
145. <s:complexType>
146. <s:sequence>
147. <s:element name="Alias" type="s:string" />
148. <s:element name="Name" type="s:string" />
149. <s:element minOccurs="0" name="Description" type="s:string" />
150. <s:element minOccurs="0" name="ContactCN" type="s:string" />
151. <s:element name="Info" type="tns:RequestInfo" />
152. <s:element name="Flags" type="tns:DistributionGroupFlags" />
153. </s:sequence>
154. </s:complexType>
155. </s:element>
156. <s:simpleType name="DistributionGroupFlags">
157. <s:restriction base="s:string">
158. <s:enumeration value="None" />
159. <s:enumeration value="OnlyAllowAuthenticatedEmail" />
160. </s:restriction>
161. </s:simpleType>
162. <s:element name="ModifyDistributionGroupResponse">
163. <s:complexType>
164. <s:sequence>
165. <s:element name="ModifyDistributionGroupResult" type="tns:RequestResponse" />
166. </s:sequence>
167. </s:complexType>
168. </s:element>
169. <s:element name="GetJobStatus">
170. <s:complexType>
171. <s:sequence>
172. <s:element name="JobId" type="s:int" />
173. </s:sequence>
174. </s:complexType>
175. </s:element>
176. <s:element name="GetJobStatusResponse">
177. <s:complexType>
178. <s:sequence>
179. <s:element name="GetJobStatusResult" type="tns:RequestResponse" />
180. </s:sequence>
181. </s:complexType>
182. </s:element>
183. <s:element name="ChangeUsersMembershipInDistributionGroup">
184. <s:complexType>
185. <s:sequence>
186. <s:element minOccurs="0" name="Alias" type="s:string" />
187. <s:element minOccurs="0" name="AddNt4NameList" type="tns:ArrayOfString" />
188. <s:element minOccurs="0" name="DeleteNt4NameList" type="tns:ArrayOfString" />
189. <s:element name="DeleteAllCurrentMembers" type="s:boolean" />
190. </s:sequence>
191. </s:complexType>
192. </s:element>
193. <s:complexType name="ArrayOfString">
194. <s:sequence>
195. <s:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true" type="s:string" />
196. </s:sequence>
197. </s:complexType>
198. <s:element name="ChangeUsersMembershipInDistributionGroupResponse">
199. <s:complexType>
200. <s:sequence>
201. <s:element name="ChangeUsersMembershipInDistributionGroupResult" type="tns:RequestStatus" />
202. </s:sequence>
203. </s:complexType>
204. </s:element>
205. <s:element name="ChangeContactsMembershipInDistributionGroup">
206. <s:complexType>
207. <s:sequence>
208. <s:element name="Alias" type="s:string" />
209. <s:element minOccurs="0" name="AddListForContacts" type="tns:ArrayOfString" />
210. <s:element minOccurs="0" name="DeleteListForContacts" type="tns:ArrayOfString" />
211. <s:element name="DeleteAllCurrentMembers" type="s:boolean" />
212. </s:sequence>
213. </s:complexType>
214. </s:element>
215. <s:element name="ChangeContactsMembershipInDistributionGroupResponse">
216. <s:complexType>
217. <s:sequence>
218. <s:element name="ChangeContactsMembershipInDistributionGroupResult" type="tns:RequestStatus" />
219. </s:sequence>
220. </s:complexType>
221. </s:element>
222. </s:schema>
223. <s:schema elementFormDefault="qualified" targetNamespace="http://microsoft.com/wsdl/types/">
224. <s:simpleType name="guid">
225. <s:restriction base="s:string">
226. <s:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}" />
227. </s:restriction>
228. </s:simpleType>
229. </s:schema>
230. </wsdl:types>
231. <wsdl:message name="CreateContactSoapIn">
232. <wsdl:part name="parameters" element="tns:CreateContact" />
233. </wsdl:message>
234. <wsdl:message name="CreateContactSoapOut">
235. <wsdl:part name="parameters" element="tns:CreateContactResponse" />
236. </wsdl:message>
237. <wsdl:message name="DeleteContactSoapIn">
238. <wsdl:part name="parameters" element="tns:DeleteContact" />
239. </wsdl:message>
240. <wsdl:message name="DeleteContactSoapOut">
241. <wsdl:part name="parameters" element="tns:DeleteContactResponse" />
242. </wsdl:message>
243. <wsdl:message name="ModifyContactSoapIn">
244. <wsdl:part name="parameters" element="tns:ModifyContact" />
245. </wsdl:message>
246. <wsdl:message name="ModifyContactSoapOut">
247. <wsdl:part name="parameters" element="tns:ModifyContactResponse" />
248. </wsdl:message>
249. <wsdl:message name="CreateDistributionGroupSoapIn">
250. <wsdl:part name="parameters" element="tns:CreateDistributionGroup" />
251. </wsdl:message>
252. <wsdl:message name="CreateDistributionGroupSoapOut">
253. <wsdl:part name="parameters" element="tns:CreateDistributionGroupResponse" />
254. </wsdl:message>
255. <wsdl:message name="DeleteDistributionGroupSoapIn">
256. <wsdl:part name="parameters" element="tns:DeleteDistributionGroup" />
257. </wsdl:message>
258. <wsdl:message name="DeleteDistributionGroupSoapOut">
259. <wsdl:part name="parameters" element="tns:DeleteDistributionGroupResponse" />
260. </wsdl:message>
261. <wsdl:message name="RenameDistributionGroupSoapIn">
262. <wsdl:part name="parameters" element="tns:RenameDistributionGroup" />
263. </wsdl:message>
264. <wsdl:message name="RenameDistributionGroupSoapOut">
265. <wsdl:part name="parameters" element="tns:RenameDistributionGroupResponse" />
266. </wsdl:message>
267. <wsdl:message name="ModifyDistributionGroupSoapIn">
268. <wsdl:part name="parameters" element="tns:ModifyDistributionGroup" />
269. </wsdl:message>
270. <wsdl:message name="ModifyDistributionGroupSoapOut">
271. <wsdl:part name="parameters" element="tns:ModifyDistributionGroupResponse" />
272. </wsdl:message>
273. <wsdl:message name="GetJobStatusSoapIn">
274. <wsdl:part name="parameters" element="tns:GetJobStatus" />
275. </wsdl:message>
276. <wsdl:message name="GetJobStatusSoapOut">
277. <wsdl:part name="parameters" element="tns:GetJobStatusResponse" />
278. </wsdl:message>
279. <wsdl:message name="ChangeUsersMembershipInDistributionGroupSoapIn">
280. <wsdl:part name="parameters" element="tns:ChangeUsersMembershipInDistributionGroup" />
281. </wsdl:message>
282. <wsdl:message name="ChangeUsersMembershipInDistributionGroupSoapOut">
283. <wsdl:part name="parameters" element="tns:ChangeUsersMembershipInDistributionGroupResponse" />
284. </wsdl:message>
285. <wsdl:message name="ChangeContactsMembershipInDistributionGroupSoapIn">
286. <wsdl:part name="parameters" element="tns:ChangeContactsMembershipInDistributionGroup" />
287. </wsdl:message>
288. <wsdl:message name="ChangeContactsMembershipInDistributionGroupSoapOut">
289. <wsdl:part name="parameters" element="tns:ChangeContactsMembershipInDistributionGroupResponse" />
290. </wsdl:message>
291. <wsdl:portType name="SharepointEmailWSSoap">
292. <wsdl:operation name="CreateContact">
293. <wsdl:input message="tns:CreateContactSoapIn" />
294. <wsdl:output message="tns:CreateContactSoapOut" />
295. </wsdl:operation>
296. <wsdl:operation name="DeleteContact">
297. <wsdl:input message="tns:DeleteContactSoapIn" />
298. <wsdl:output message="tns:DeleteContactSoapOut" />
299. </wsdl:operation>
300. <wsdl:operation name="ModifyContact">
301. <wsdl:input message="tns:ModifyContactSoapIn" />
302. <wsdl:output message="tns:ModifyContactSoapOut" />
303. </wsdl:operation>
304. <wsdl:operation name="CreateDistributionGroup">
305. <wsdl:input message="tns:CreateDistributionGroupSoapIn" />
306. <wsdl:output message="tns:CreateDistributionGroupSoapOut" />
307. </wsdl:operation>
308. <wsdl:operation name="DeleteDistributionGroup">
309. <wsdl:input message="tns:DeleteDistributionGroupSoapIn" />
310. <wsdl:output message="tns:DeleteDistributionGroupSoapOut" />
311. </wsdl:operation>
312. <wsdl:operation name="RenameDistributionGroup">
313. <wsdl:input message="tns:RenameDistributionGroupSoapIn" />
314. <wsdl:output message="tns:RenameDistributionGroupSoapOut" />
315. </wsdl:operation>
316. <wsdl:operation name="ModifyDistributionGroup">
317. <wsdl:input message="tns:ModifyDistributionGroupSoapIn" />
318. <wsdl:output message="tns:ModifyDistributionGroupSoapOut" />
319. </wsdl:operation>
320. <wsdl:operation name="GetJobStatus">
321. <wsdl:input message="tns:GetJobStatusSoapIn" />
322. <wsdl:output message="tns:GetJobStatusSoapOut" />
323. </wsdl:operation>
324. <wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
325. <wsdl:input message="tns:ChangeUsersMembershipInDistributionGroupSoapIn" />
326. <wsdl:output message="tns:ChangeUsersMembershipInDistributionGroupSoapOut" />
327. </wsdl:operation>
328. <wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
329. <wsdl:input message="tns:ChangeContactsMembershipInDistributionGroupSoapIn" />
330. <wsdl:output message="tns:ChangeContactsMembershipInDistributionGroupSoapOut" />
331. </wsdl:operation>
332. </wsdl:portType>
333. <wsdl:binding name="SharepointEmailWSSoap" type="tns:SharepointEmailWSSoap">
334. <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
335. <wsdl:operation name="CreateContact">
336. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact" style="document" />
337. <wsdl:input>
338. <soap:body use="literal" />
339. </wsdl:input>
340. <wsdl:output>
341. <soap:body use="literal" />
342. </wsdl:output>
343. </wsdl:operation>
344. <wsdl:operation name="DeleteContact">
345. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact" style="document" />
346. <wsdl:input>
347. <soap:body use="literal" />
348. </wsdl:input>
349. <wsdl:output>
350. <soap:body use="literal" />
351. </wsdl:output>
352. </wsdl:operation>
353. <wsdl:operation name="ModifyContact">
354. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyContact" style="document" />
355. <wsdl:input>
356. <soap:body use="literal" />
357. </wsdl:input>
358. <wsdl:output>
359. <soap:body use="literal" />
360. </wsdl:output>
361. </wsdl:operation>
362. <wsdl:operation name="CreateDistributionGroup">
363. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup" style="document" />
364. <wsdl:input>
365. <soap:body use="literal" />
366. </wsdl:input>
367. <wsdl:output>
368. <soap:body use="literal" />
369. </wsdl:output>
370. </wsdl:operation>
371. <wsdl:operation name="DeleteDistributionGroup">
372. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteDistributionGroup" style="document" />
373. <wsdl:input>
374. <soap:body use="literal" />
375. </wsdl:input>
376. <wsdl:output>
377. <soap:body use="literal" />
378. </wsdl:output>
379. </wsdl:operation>
380. <wsdl:operation name="RenameDistributionGroup">
381. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionGroup" style="document" />
382. <wsdl:input>
383. <soap:body use="literal" />
384. </wsdl:input>
385. <wsdl:output>
386. <soap:body use="literal" />
387. </wsdl:output>
388. </wsdl:operation>
389. <wsdl:operation name="ModifyDistributionGroup">
390. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionGroup" style="document" />
391. <wsdl:input>
392. <soap:body use="literal" />
393. </wsdl:input>
394. <wsdl:output>
395. <soap:body use="literal" />
396. </wsdl:output>
397. </wsdl:operation>
398. <wsdl:operation name="GetJobStatus">
399. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus" style="document" />
400. <wsdl:input>
401. <soap:body use="literal" />
402. </wsdl:input>
403. <wsdl:output>
404. <soap:body use="literal" />
405. </wsdl:output>
406. </wsdl:operation>
407. <wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
408. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembershipInDistributionGroup" style="document" />
409. <wsdl:input>
410. <soap:body use="literal" />
411. </wsdl:input>
412. <wsdl:output>
413. <soap:body use="literal" />
414. </wsdl:output>
415. </wsdl:operation>
416. <wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
417. <soap:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeContactsMembershipInDistributionGroup" style="document" />
418. <wsdl:input>
419. <soap:body use="literal" />
420. </wsdl:input>
421. <wsdl:output>
422. <soap:body use="literal" />
423. </wsdl:output>
424. </wsdl:operation>
425. </wsdl:binding>
426. <wsdl:binding name="SharepointEmailWSSoap12" type="tns:SharepointEmailWSSoap">
427. <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
428. <wsdl:operation name="CreateContact">
429. <soap12:operation soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact" style="document" />
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# Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

* The 2007 Microsoft Office system
* Microsoft Office 2010 suites
* Microsoft Office 2013
* Windows SharePoint Services 3.0
* Microsoft SharePoint Foundation 2010
* Microsoft SharePoint Foundation 2013
* Microsoft Office 2016
* Microsoft SharePoint Server 2016
* Microsoft Office 2019
* Microsoft SharePoint Server 2019
* Microsoft Office 2021
* Microsoft SharePoint Server Subscription Edition Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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 2.2.5.3](#Appendix_A_Target_1): This type is available only in Office 2013 and SharePoint Foundation 2013.

# Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

* A document revision that incorporates changes to interoperability requirements.
* A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

| Section | Description | Revision class |
| --- | --- | --- |
| [7](#Section_34c189fc6e6b42ec8c229436ecc2cf9c) Appendix B: Product Behavior | Updated list of supported products. | major |
| 7 Appendix B: Product Behavior | Updated list of supported products. | Major |
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