

Preliminary

[MS-SPEMAWS] — v20120411
SharePoint E-Mail Web Service Protocol Specification

Copyright © 2012 Microsoft Corporation.

Release: Wednesday, April 11, 2012

[MS-SPEMAWS]: SharePoint E-Mail Web Service Protocol Specification

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation for protocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL's, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that may cover your implementations of the technologies described in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft [Open Specification Promise](#) or the [Community Promise](#). If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **Trademarks.** The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights.
- **Fictitious Names.** The example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications do not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments you are free to take advantage of them. Certain Open Specifications are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.

Preliminary Documentation. This Open Specification provides documentation for past and current releases and/or for the pre-release (beta) version of this technology. This Open Specification is final documentation for past or current releases as specifically noted in the document, as applicable; it is

preliminary documentation for the pre-release (beta) versions. Microsoft will release final documentation in connection with the commercial release of the updated or new version of this technology. As the documentation may change between this preliminary version and the final version of this technology, there are risks in relying on preliminary documentation. To the extent that you incur additional development obligations or any other costs as a result of relying on this preliminary documentation, you do so at your own risk.

Revision Summary

Date	Revision History	Revision Class	Comments
04/04/2008	0.1		Initial Availability
06/27/2008	1.0	Major	Revised and edited the technical content
08/15/2008	1.01	Editorial	Revised and edited the technical content
12/12/2008	1.02	Editorial	Revised and edited the technical content
07/13/2009	1.03	Major	Revised and edited the technical content
08/28/2009	1.04	Editorial	Revised and edited the technical content
11/06/2009	1.05	Editorial	Revised and edited the technical content
02/19/2010	2.0	Minor	Updated the technical content
03/31/2010	2.01	Editorial	Revised and edited the technical content
04/30/2010	2.02	Editorial	Revised and edited the technical content
06/07/2010	2.03	Editorial	Revised and edited the technical content
06/29/2010	2.04	Minor	Clarified the meaning of the technical content.
07/23/2010	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
09/27/2010	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
03/18/2011	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
06/10/2011	2.04	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	3.0	Major	Significantly changed the technical content.

Date	Revision History	Revision Class	Comments
04/11/2012	3.0	No change	No changes to the meaning, language, or formatting of the technical content.

Table of Contents

1.1 Glossary	8
1.2 References.....	8
1.2.1 Normative References.....	8
1.2.2 Informative References	9
1.3 Protocol Overview (Synopsis)	9
1.4 Relationship to Other Protocols.....	9
1.5 Prerequisites/Preconditions	10
1.6 Applicability Statement.....	10
1.7 Versioning and Capability Negotiation.....	10
1.8 Vendor-Extensible Fields.....	10
1.9 Standards Assignments	10
2 Messages.....	11
2.1 Transport.....	11
2.2 Common Message Syntax	11
2.2.1 Namespaces	11
2.2.2 Messages	11
2.2.3 Elements.....	11
2.2.4 Complex Types	12
2.2.4.1 ArrayOfString.....	12
2.2.4.2 RequestInfo	12
2.2.4.3 RequestResponse	13
2.2.5 Simple Types	13
2.2.5.1 ContactFlags	14
2.2.5.2 DistributionGroupFlags	14
2.2.5.3 guid	14
2.2.5.4 RequestStatus.....	15
2.2.6 Attributes	16
2.2.7 Groups.....	16
2.2.8 Attribute Groups	16
2.2.9 Common Data Structures	16
3 Protocol Details.....	17
3.1 SharepointEmailWSSoap Server Details	17
3.1.1 Abstract Data Model	17
3.1.2 Timers	18
3.1.3 Initialization	18
3.1.4 Message Processing Events and Sequencing Rules	18
3.1.4.1 ChangeContactsMembershipInDistributionGroup	18
3.1.4.1.1 Messages	19
3.1.4.1.1.1 ChangeContactsMembershipInDistributionGroupSoapIn.....	19
3.1.4.1.1.2 ChangeContactsMembershipInDistributionGroupSoapOut.....	19

3.1.4.1.2 Elements	20
3.1.4.1.2.1 ChangeContactsMembershipInDistributionGroup	20
3.1.4.1.2.2 ChangeContactsMembershipInDistributionGroupResponse	20
3.1.4.1.3 Complex Types	21
3.1.4.1.4 Simple Types	21
3.1.4.1.5 Attributes	21
3.1.4.1.6 Groups	21
3.1.4.1.7 Attribute Groups	21
3.1.4.2 ChangeUsersMembershipInDistributionGroup	21
3.1.4.2.1 Messages	22
3.1.4.2.1.1 ChangeUsersMembershipInDistributionGroupSoapIn	22
3.1.4.2.1.2 ChangeUsersMembershipInDistributionGroupSoapOut	22
3.1.4.2.2 Elements	23
3.1.4.2.2.1 ChangeUsersMembershipInDistributionGroup	23
3.1.4.2.2.2 ChangeUsersMembershipInDistributionGroupResponse	24
3.1.4.2.3 Complex Types	24
3.1.4.2.4 Simple Types	24
3.1.4.2.5 Attributes	24
3.1.4.2.6 Groups	24
3.1.4.2.7 Attribute Groups	24
3.1.4.3 CreateContact	25
3.1.4.3.1 Messages	25
3.1.4.3.1.1 CreateContactSoapIn	25
3.1.4.3.1.2 CreateContactSoapOut	25
3.1.4.3.2 Elements	26
3.1.4.3.2.1 CreateContact	26
3.1.4.3.2.2 CreateContactResponse	26
3.1.4.3.3 Complex Types	27
3.1.4.3.4 Simple Types	27
3.1.4.3.5 Attributes	27
3.1.4.3.6 Groups	27
3.1.4.3.7 Attribute Groups	27
3.1.4.4 CreateDistributionGroup	27
3.1.4.4.1 Messages	28
3.1.4.4.1.1 CreateDistributionGroupSoapIn	28
3.1.4.4.1.2 CreateDistributionGroupSoapOut	28
3.1.4.4.2 Elements	29
3.1.4.4.2.1 CreateDistributionGroup	29
3.1.4.4.2.2 CreateDistributionGroupResponse	29
3.1.4.4.3 Complex Types	30
3.1.4.4.4 Simple Types	30
3.1.4.4.5 Attributes	30
3.1.4.4.6 Groups	30
3.1.4.4.7 Attribute Groups	31
3.1.4.5 DeleteContact	31
3.1.4.5.1 Messages	31
3.1.4.5.1.1 DeleteContactSoapIn	31
3.1.4.5.1.2 DeleteContactSoapOut	32
3.1.4.5.2 Elements	32
3.1.4.5.2.1 DeleteContact	32
3.1.4.5.2.2 DeleteContactResponse	32
3.1.4.5.3 Complex Types	33
3.1.4.5.4 Simple Types	33

3.1.4.5.5 Attributes.....	33
3.1.4.5.6 Groups.....	33
3.1.4.5.7 Attribute Groups	33
3.1.4.6 DeleteDistributionGroup	33
3.1.4.6.1 Messages	34
3.1.4.6.1.1 DeleteDistributionGroupSoapIn	34
3.1.4.6.1.2 DeleteDistributionGroupSoapOut	34
3.1.4.6.2 Elements.....	34
3.1.4.6.2.1 DeleteDistributionGroup	35
3.1.4.6.2.2 DeleteDistributionGroupResponse.....	35
3.1.4.6.3 Complex Types	36
3.1.4.6.4 Simple Types	36
3.1.4.6.5 Attributes.....	36
3.1.4.6.6 Groups.....	36
3.1.4.6.7 Attribute Groups	36
3.1.4.7 GetJobStatus	36
3.1.4.7.1 Messages	37
3.1.4.7.1.1 GetJobStatusSoapIn	37
3.1.4.7.1.2 GetJobStatusSoapOut	38
3.1.4.7.2 Elements.....	38
3.1.4.7.2.1 GetJobStatus	38
3.1.4.7.2.2 GetJobStatusResponse	38
3.1.4.7.3 Complex Types	39
3.1.4.7.4 Simple Types	39
3.1.4.7.5 Attributes.....	39
3.1.4.7.6 Groups.....	39
3.1.4.7.7 Atttribute Groups	39
3.1.4.8 ModifyContact	39
3.1.4.8.1 Messages	40
3.1.4.8.1.1 ModifyContactSoapIn	40
3.1.4.8.1.2 ModifyContactSoapOut	40
3.1.4.8.2 Elements.....	40
3.1.4.8.2.1 ModifyContact	41
3.1.4.8.2.2 ModifyContactResponse	41
3.1.4.8.3 Complex Types	42
3.1.4.8.4 Simple Types	42
3.1.4.8.5 Attributes.....	42
3.1.4.8.6 Groups.....	42
3.1.4.8.7 Attribbute Groups	42
3.1.4.9 ModifyDistributionGroup	42
3.1.4.9.1 Messages	43
3.1.4.9.1.1 ModifyDistributionGroupSoapIn	43
3.1.4.9.1.2 ModifyDistributionGroupSoapOut	43
3.1.4.9.2 Elements.....	44
3.1.4.9.2.1 ModifyDistributionGroup	44
3.1.4.9.2.2 ModifyDistributionGroupResponse	44
3.1.4.9.3 Complex Types	45
3.1.4.9.4 Simple Types	45
3.1.4.9.5 Attributes.....	45
3.1.4.9.6 Groups.....	45
3.1.4.9.7 Attribbute Groups	46
3.1.4.10 RenameDistributionGroup	46
3.1.4.10.1 Messages	46

3.1.4.10.1.1	RenameDistributionGroupSoapIn	46
3.1.4.10.1.2	RenameDistributionGroupSoapOut	47
3.1.4.10.2	Elements	47
3.1.4.10.2.1	RenameDistributionGroup	47
3.1.4.10.2.2	RenameDistributionGroupResponse	47
3.1.4.10.3	Complex Types	48
3.1.4.10.4	Simple Types	48
3.1.4.10.5	Attributes	48
3.1.4.10.6	Groups	48
3.1.4.10.7	Attribute Groups	49
3.1.5	Timer Events	49
3.1.6	Other Local Events	49
4	Protocol Examples.....	50
4.1	Create and Add Contacts to a Distribution List	50
4.1.1	Create a Distribution List	50
4.1.2	Add a Contact to a Distribution List	51
4.2	Create and Add a Contact to a Distribution List	51
4.2.1	Create a Contact	51
4.2.2	Add a Contact to a Distribution List	52
4.3	Modify a Contact	53
4.4	Remove a Contact and Rename a Distribution List	54
4.4.1	Remove a Contact from a Distribution List	54
4.4.2	Delete a Contact	54
4.4.3	Change the Name of a Distribution List	55
4.5	Modify a Distribution List	56
4.6	Delete a Distribution List	57
4.7	Check the Status of a Deletion Request	57
4.7.1	Delete a Distribution List	58
4.7.2	Check the Status of a Job	58
5	Security.....	61
5.1	Security Considerations for Implementers	61
5.2	Index of Security Parameters	61
6	Appendix A: Full WSDL	62
7	Appendix B: Product Behavior	73
8	Change Tracking	74
9	Index	75

1 Introduction

This document specifies the SharePoint E-mail Web Service Protocol, which 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) 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 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

Active Directory Domain Services (AD DS)
authenticated users
directory service (DS)
domain account
GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

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

contact
distribution list
e-mail address
e-mail alias
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP fault
Web Services Description Language (WSDL)
XML namespace
XML schema

The following terms are specific to this document:

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

1.2 References

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

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-ADA1] Microsoft Corporation, "[Active Directory Schema Attributes A-L](#)".

[MS-ADA3] Microsoft Corporation, "[Active Directory Schema Attributes N-Z](#)".

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

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>

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

[XMLSHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmleschema-1-20010502/>

[XMLSHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmleschema-2-20010502/>

1.2.2 Informative References

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

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

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

1.3 Protocol Overview (Synopsis)

This protocol enables system administrators to manage **contacts (3)** and groups of contacts that are controlled by either **Active Directory Domain Services (AD DS)** or a **directory service (DS)** that is compatible with AD DS. System administrators can use this protocol to do the following:

- Create, modify, and delete contacts (3).
- Add, update, and remove contacts (3) from existing groups of contacts (3), which are referred to as **distribution lists**.
- Create, update, and delete distribution lists.
- Check the status of operations that are defined by this protocol.
- Integrate a protocol server with AD DS.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

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

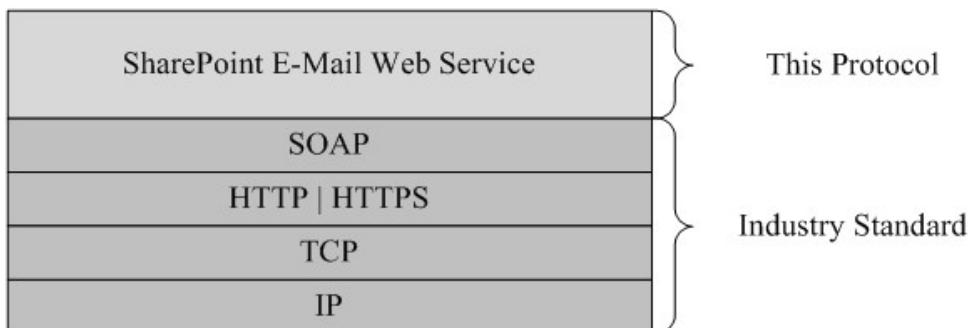


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a site that is identified by a URL that is known by protocol clients. The protocol server endpoint 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.

1.6 Applicability Statement

This protocol is designed to enable a protocol client to create, modify, or delete contacts (3) and distribution lists that are controlled by either AD DS or a DS 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.

1.7 Versioning and Capability Negotiation

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

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

Protocol servers MUST support Simple Object Access Protocol (SOAP) over Hypertext Transfer Protocol (HTTP). Protocol servers SHOULD additionally support SOAP over Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS) to help secure communications with protocol clients.

Protocol messages MUST be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Server faults MUST be returned by using either HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [\[XMLSHEMA1\]](#) and [\[XMLSHEMA2\]](#), and **WSDL**, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability. These namespaces are described in the following table.

Prefix	Namespace URI	Reference
Soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
Tns	http://microsoft.com/webservices/SharePoint/SharepointEmailWS/	
s1	http://microsoft.com/wsdl/types/	
S	http://www.w3.org/2001/XMLSchema	[XMLSHEMA1] [XMLSHEMA2]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
Wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

2.2.2 Messages

This specification does not define any common WSDL message definitions.

2.2.3 Elements

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

2.2.4 Complex Types

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

Complex type	Description
ArrayOfString	Stores an array of strings.
RequestInfo	Specifies information about a request to create, modify, or delete a distribution list.
RequestResponse	Contains return information for a request.

2.2.4.1 ArrayOfString

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

```
<s:complexType name="ArrayOfString">
<s:sequence>
<s:element name="string" type="s:string" nillable="true" minOccurs="0" maxOccurs="unbounded"
/>
</s:sequence>
</s:complexType>
```

string: A string variable that contains the name of a contact (3) or user.

2.2.4.2 RequestInfo

The **RequestInfo** complex type contains information about a request to create, modify, or delete a distribution list. It is used by the following operations:

- **CreateDistributionGroup** (section [3.1.4.4](#))
- **DeleteDistributionGroup** (section [3.1.4.6](#))
- **ModifyDistributionGroup** (section [3.1.4.9](#))
- **RenameDistributionGroup** (section [3.1.4.10](#))

```
<s:complexType name="RequestInfo">
<s:sequence>
<s:element name="RequestorEmail" type="s:string" />
<s:element name="Justification" type="s:string" minOccurs="0" />
<s:element name="RequestId" type="s1:guid" />
</s:sequence>
</s:complexType>
```

RequestorEmail: The **e-mail address** 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 [\[MS-ADA1\]](#) section 2.110.

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

RequestId: A **GUID** that identifies the request. This value MUST be ignored by the protocol server.

2.2.4.3 RequestResponse

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

- **CreateDistributionGroup** (section [3.1.4.4](#))
- **DeleteDistributionGroup** (section [3.1.4.6](#))
- **GetJobStatus** (section [3.1.4.7](#))
- **ModifyDistributionGroup** (section [3.1.4.9](#))
- **RenameDistributionGroup** (section [3.1.4.10](#))

```
<s:complexType name="RequestResponse">
  <s:sequence>
    <s:element name="JobID" type="s:int" />
    <s:element name="Comment" type="s:string" minOccurs="0" />
    <s:element name="JobStatus" type="tns:RequestStatus" />
    <s:element name="Alias" type="s:string" minOccurs="0" />
  </s:sequence>
</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](#)) that contains the status of the request.

Alias: The **e-mail alias** of the contact (3) or distribution list that the request applies to.

2.2.5 Simple Types

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

Simple type	Description
ContactFlags	Enumerates the properties and constraints on a contact (3).
DistributionGroupFlags	Enumerates the properties and constraints on a distribution list.
guid	Specifies the unique identifier.

Simple type	Description
RequestStatus	Enumerates the status of a request message.

2.2.5.1 ContactFlags

The **ContactFlags** simple type enumerates properties and constraints on a contact (3). It is used by the **CreateContact** (section [3.1.4.3](#)) and **ModifyContact** (section [3.1.4.8](#)) operations.

```
<s:simpleType name="ContactFlags">
<s:restriction base="s:string">
<s:enumeration value="None"/>
<s:enumeration value="OnlyAllowAuthenticatedEmail"/>
</s:restriction>
</s:simpleType>
```

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

Value	Description
None	No flags are associated with the contact (3).
OnlyAllowAuthenticatedEmail	The contact (3) is allowed to receive e-mail messages only from accounts that are associated with authenticated users.

2.2.5.2 DistributionGroupFlags

The **DistributionGroupFlags** simple type enumerates properties and constraints on a distribution list. It is used by the **CreateDistributionGroup** (section [3.1.4.4](#)) and the **ModifyDistributionGroup** (section [3.1.4.9](#)) operations.

```
<s:simpleType name="DistributionGroupFlags">
<s:restriction base="s:string">
<s:enumeration value="None"/>
<s:enumeration value="OnlyAllowAuthenticatedEmail"/>
</s:restriction>
</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 .

2.2.5.3 guid

The **guid** simple type specifies the unique identifier.[<1>](#)

```

<s:simpleType name="guid">
  <s:restriction base="s:string">
    <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}" />
  </s:restriction>
</s:simpleType>

```

2.2.5.4 RequestStatus

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

- **ChangeContactsMembershipInDistributionGroup** (section [3.1.4.1](#))
- **ChangeUsersMembershipInDistributionGroup** (section [3.1.4.2](#))
- **CreateContact** (section [3.1.4.3](#))
- **DeleteContact** (section [3.1.4.5](#))
- **ModifyContact** (section [3.1.4.8](#))

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

```

<s:simpleType name="RequestStatus">
  <s:restriction base="s:string">
    <s:enumeration value="Success"/>
    <s:enumeration value="PendingApproval"/>
    <s:enumeration value="ApprovalDenied"/>
    <s:enumeration value="DuplicateAlias"/>
    <s:enumeration value="InvalidArgument"/>
    <s:enumeration value="ServiceNotConfigured"/>
    <s:enumeration value="AccessDenied"/>
    <s:enumeration value="ServerUnavailable"/>
    <s:enumeration value="ObjectNotFound"/>
    <s:enumeration value="InvalidMember"/>
    <s:enumeration value="InternalError"/>
  </s:restriction>
</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 already exists in the DS.
InvalidArgument	One or more arguments are not valid.

Value	Description
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 or contact (3) 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.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

2.2.9 Common Data Structures

This specification does not define any common XML schema data structures.

3 Protocol Details

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

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. Except where specified otherwise, protocol clients SHOULD interpret HTTP status codes as specified in [RFC2616] section 10. Except where specified otherwise, SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

3.1 SharepointEmailWSSoap Server Details

3.1.1 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.

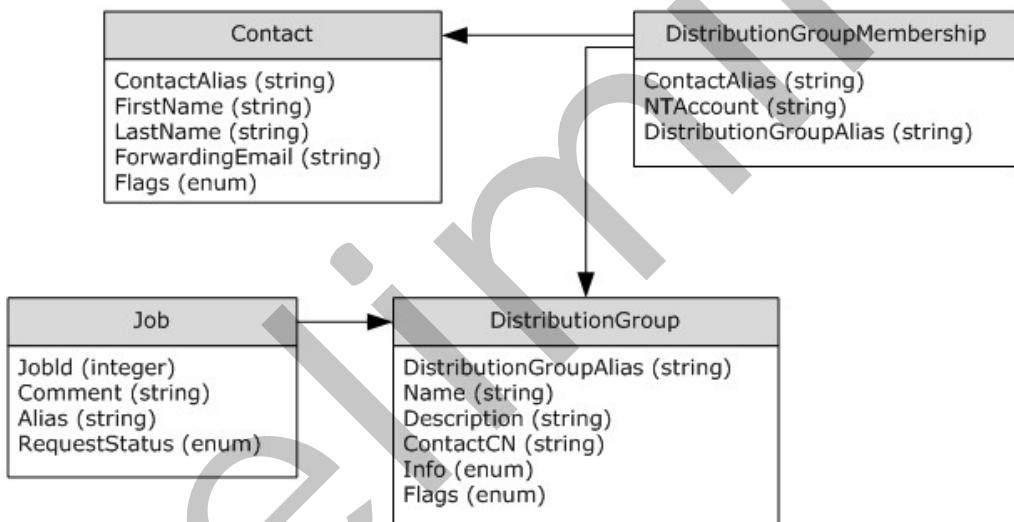


Figure 2: Data structure on a protocol server

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

Contact: Contains information about contacts (3). Each contact (3) is uniquely identified by an e-mail alias that is assigned to it by a protocol client.

DistributionGroup: Contains information about distribution lists. 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 (3) that are members of a distribution list.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

WSDL operation	Description
ChangeContactsMembershipInDistributionGroup	Adds or removes contacts (3) from a distribution list.
ChangeUsersMembershipInDistributionGroup	Adds or removes users from a distribution list.
CreateContact	Creates a new contact (3).
CreateDistributionGroup	Creates a new distribution list.
DeleteContact	Deletes a contact (3).
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 (3).
ModifyDistributionGroup	Changes information about a distribution list.
RenameDistributionGroup	Changes the name of a distribution list.

3.1.4.1 ChangeContactsMembershipInDistributionGroup

The **ChangeContactsMembershipInDistributionGroup** operation is used to add and remove contacts (3) from a distribution list.

```
<wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
<wsdl:input message="ChangeContactsMembershipInDistributionGroupSoapIn" />
<wsdl:output message="ChangeContactsMembershipInDistributionGroupSoapOut" />
</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.

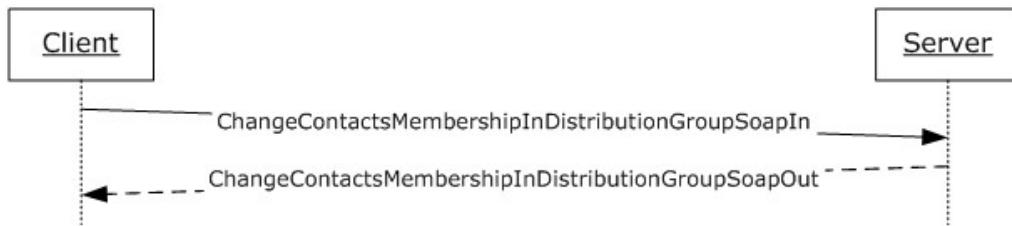


Figure 3: Message sequence for a ChangeContactsMembershipInDistributionGroup operation

3.1.4.1.1 Messages

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

Message	Description
ChangeContactsMemebershipInDistributionGroupSoapIn	A request to initiate a ChangeContactsMembershipInDistributionGroup operation.
ChangeContactsMemebershipInDistributionGroupSoapOut	A response from the protocol server at completion of the ChangeContactsMembershipInDistributionGroup operation.

3.1.4.1.1.1 ChangeContactsMembershipInDistributionGroupSoapIn

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

The **SOAP action** value of the message is defined as follows.

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

The **SOAP body** contains a **ChangeContactsMembershipInDistributionGroup** element.

3.1.4.1.1.2 ChangeContactsMembershipInDistributionGroupSoapOut

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **ChangeContactsMembershipInDistributionGroupResponse** element.

3.1.4.1.2 Elements

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

Element	Description
ChangeContactsMembershipInDistributionGroup	Body of the ChangeContactsMembershipInDistributionGroupSoapIn message.
ChangeContactsMembershipInDistributionGroup Response	Body of the ChangeContactsMembershipInDistributionGroupSoapOut message.

3.1.4.1.2.1 ChangeContactsMembershipInDistributionGroup

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

```
<s:element name="ChangeContactsMembershipInDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
<s:element name="AddListForContacts" type="tns:ArrayOfString" minOccurs="0" />
<s:element name="DeleteListForContacts" type="tns:ArrayOfString" minOccurs="0" />
<s:element name="DeleteAllCurrentMembers" type="s:boolean" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [\[MS-ADA1\]](#) section 2.110.

AddListForContacts: An array that contains the e-mail aliases of the contacts (3) to add.

DeleteListForContacts: An array that contains the e-mail aliases of the contacts (3) to remove.

DeleteAllCurrentMembers: A Boolean value that indicates whether to remove all members from the distribution list or only the contacts (3) specified by the **DeleteListForContacts** element. If this value is **true**, the **DeleteListForContacts** element MUST be ignored by the server.

The addition of contacts (3) to the distribution group MUST occur after all of the deletion requests are processed.

3.1.4.1.2.2 ChangeContactsMembershipInDistributionGroupResponse

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

```
<s:element name="ChangeContactsMembershipInDistributionGroupResponse">
<s:complexType>
<s:sequence>
<s:element name="ChangeContactsMembershipInDistributionGroupResult"
type="tns:RequestStatus"/>
```

```

</s:sequence>
</s:complexType>
</s:element>

```

ChangeContactsMembershipInDistributionGroupResult: The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#)) 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 specified in the DeleteListForContacts element either cannot be found or is not a valid member of the distribution list.
RequestStatus.ObjectNotFound	The specified e-mail alias cannot 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.

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 ChangeUsersMembershipInDistributionGroup

The **ChangeUsersMembershipInDistributionGroup** operation is used to add and remove users from a distribution list.

```
<wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
```

```

<wsdl:input message="ChangeUsersMembershipInDistributionGroupSoapIn" />
<wsdl:output message="ChangeUsersMembershipInDistributionGroupSoapOut" />
</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.

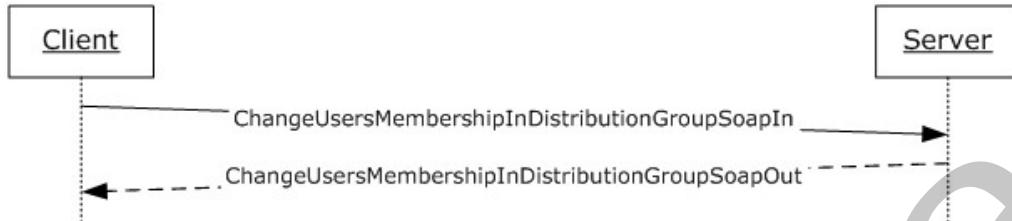


Figure 4: Message sequence for a ChangeUsersMembershipInDistributionGroup operation

3.1.4.2.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.2.1.1 ChangeUsersMembershipInDistributionGroupSoapIn

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **ChangeUsersMembershipInDistributionGroup** element.

3.1.4.2.1.2 ChangeUsersMembershipInDistributionGroupSoapOut

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembershipInDistributionGroup>

The SOAP body contains a **ChangeUsersMembershipInDistributionGroupResponse** element.

3.1.4.2.2 Elements

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

Element	Description
ChangeUsersMembershipInDistributionGroup	Body of the ChangeUsersMembershipInDistributionGroupSoapIn message.
ChangeUsersMembershipInDistributionGroupResponse	Body of the ChangeUsersMembershipInDistributionGroupSoapOut message.

3.1.4.2.2.1 ChangeUsersMembershipInDistributionGroup

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

```
<s:element name="ChangeUsersMembershipInDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" minOccurs="0"/>
<s:element name="AddNt4NameList" type="tns:ArrayOfString" minOccurs="0"/>
<s:element name="DeleteNt4NameList" type="tns:ArrayOfString" minOccurs="0"/>
<s:element name="DeleteAllCurrentMembers" type="s:boolean"/>
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of the distribution list. This value MUST be 255 or fewer characters. Additional limitations on this value are specified in [\[MS-ADA1\]](#) section 2.110.

AddNt4NameList: An array that contains the **domain accounts** 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.

3.1.4.2.2.2 ChangeUsersMembershipInDistributionGroupResponse

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

```
<s:element name="ChangeUsersMembershipInDistributionGroupResponse">
<s:complexType>
<s:sequence>
<s:element name="ChangeUsersMembershipInDistributionGroupResult" type="tns:RequestStatus"/>
</s:sequence>
</s:complexType>
</s:element>
```

ChangeUsersMembershipInDistributionGroupResult: The protocol server MUST return a **RequestStatus** simple type (section [2.2.5.4](#)) 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.
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.

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 CreateContact

The **CreateContact** operation is used to add a contact (3) to a DS.

```
<wsdl:operation name="CreateContact">
<wsdl:input message="CreateContactSoapIn" />
<wsdl:output message="CreateContactSoapOut" />
</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.

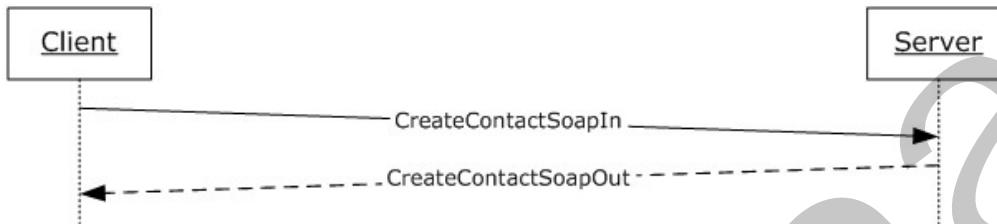


Figure 5: Message sequence for a CreateContact operation

3.1.4.3.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.3.1.1 CreateContactSoapIn

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact>

The SOAP body contains a **CreateContact** element.

3.1.4.3.1.2 CreateContactSoapOut

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact>

The SOAP body contains a **CreateContactResponse** element.

3.1.4.3.2 Elements

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

Element	Description
CreateContact	Body of the CreateContactSoapIn message.
CreateContactResponse	Body of the CreateContactSoapOut message.

3.1.4.3.2.1 CreateContact

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

```
<s:element name="CreateContact">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
<s:element name="FirstName" type="s:string" />
<s:element name="LastName" type="s:string" />
<s:element name="ForwardingEmail" type="s:string" />
<s:element name="Flags" type="tns>ContactFlags" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of the contact (3). 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 (3). Limitations on this value are specified in [\[MS-ADA1\]](#) section 2.273.

LastName: The last name of the contact (3). Limitations on this value are specified in [\[MS-ADA3\]](#) section 2.274.

ForwardingEmail: The e-mail address where e-mail messages are sent for the contact (3).

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

3.1.4.3.2.2 CreateContactResponse

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

```
<s:element name="CreateContactResponse">
<s:complexType>
<s:sequence>
```

```

<s:element name="CreateContactResult" type="tns:RequestStatus"/>
</s:sequence>
</s:complexType>
</s:element>

```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS is not configured.
RequestStatus.InvalidArgument	The specified e-mail alias 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.

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 CreateDistributionGroup

The **CreateDistributionGroup** operation is used to create a distribution list in a DS.

```

<wsdl:operation name="CreateDistributionGroup">
<wsdl:input message="CreateDistributionGroupSoapIn" />
<wsdl:output message="CreateDistributionGroupSoapOut" />
</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

3.1.4.4.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.4.1.1 CreateDistributionGroupSoapIn

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup>

The SOAP body contains a **CreateDistributionGroup** element.

3.1.4.4.1.2 CreateDistributionGroupSoapOut

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup>

The SOAP body contains a **CreateDistributionGroupResponse** element.

3.1.4.4.2 Elements

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

Element	Description
CreateDistributionGroup	Body of the CreateDistributionGroupSoapIn message.
CreateDistributionGroupResponse	Body of the CreateDistributionGroupSoapOut message.

3.1.4.4.2.1 CreateDistributionGroup

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

```
<s:element name="CreateDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
<s:element name="Name" type="s:string" />
<s:element name="Description" type="s:string" minOccurs="0" />
<s:element name="ContactCN" type="s:string" minOccurs="0" />
<s:element name="Info" type="tns:RequestInfo" />
<s:element name="Flags" type="tns:DistributionGroupFlags" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of 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.

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.

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

ContactCN: The e-mail alias of the contact (3) 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](#)) that contains additional information about the request to create the distribution list.

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

3.1.4.4.2.2 CreateDistributionGroupResponse

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

```
<s:element name="CreateDistributionGroupResponse">
<s:complexType>
```

```

<s:sequence>
<s:element name="CreateDistributionGroupResult" type="tns:RequestResponse" />
</s:sequence>
</s:complexType>
</s:element>

```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS is not configured.
RequestStatus.InvalidArgument	The specified e-mail alias 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 alias 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 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.

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 DeleteContact

The **DeleteContact** operation is used to delete a contact (3) from a DS.

```
<wsdl:operation name="DeleteContact">
<wsdl:input message="DeleteContactSoapIn" />
<wsdl:output message="DeleteContactSoapOut" />
</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

3.1.4.5.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.5.1.1 DeleteContactSoapIn

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact>

The SOAP body contains a **DeleteContact** element.

3.1.4.5.1.2 DeleteContactSoapOut

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **DeleteContactResponse** element.

3.1.4.5.2 Elements

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

Element	Description
DeleteContact	Body of the DeleteContactSoapIn message.
DeleteContactResponse	Body of the DeleteContactSoapOut message.

3.1.4.5.2.1 DeleteContact

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

```
<s:element name="DeleteContact">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of the contact (3) to delete from the DS. Limitations on this value are specified in [\[MS-ADA1\]](#) section 2.110. Additionally, this value MUST consist of 255 or fewer characters.

3.1.4.5.2.2 DeleteContactResponse

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

```
<s:element name="DeleteContactResponse">
<s:complexType>
<s:sequence>
<s:element name="DeleteContactResult" type="tns:RequestStatus"/>
</s:sequence>
</s:complexType>
</s:element>
```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS is not configured.
RequestStatus.InvalidArgument	The specified e-mail alias contains zero characters or a semicolon (;).
RequestStatus.ObjectNotFound	The contact (3) 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.

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 DeleteDistributionGroup

The **DeleteDistributionGroup** operation is used to delete an existing distribution list from a DS.

```
<wsdl:operation name="DeleteDistributionGroup">
<wsdl:input message="DeleteDistributionGroupSoapIn" />
<wsdl:output message="DeleteDistributionGroupSoapOut" />
</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

3.1.4.6.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.6.1.1 DeleteDistributionGroupSoapIn

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **DeleteDistributionGroup** element.

3.1.4.6.1.2 DeleteDistributionGroupSoapOut

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **DeleteDistributionGroupResponse** element.

3.1.4.6.2 Elements

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

Element	Description
DeleteDistributionGroup	Body of the DeleteDistributionGroupSoapIn message.
DeleteDistributionGroupResponse	Body of the DeleteDistributionGroupSoapOut message.

3.1.4.6.2.1 DeleteDistributionGroup

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

```
<s:element name="DeleteDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
<s:element name="Info" type="tns:RequestInfo" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of the distribution list to delete. 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](#)) that contains additional information about the request to delete the distribution list.

3.1.4.6.2.2 DeleteDistributionGroupResponse

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

```
<s:element name="DeleteDistributionGroupResponse">
<s:complexType>
<s:sequence>
<s:element name="DeleteDistributionGroupResult" type="tns:RequestResponse" />
</s:sequence>
</s:complexType>
</s:element>
```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS is not configured.
RequestStatus.InvalidArgument	The specified e-mail alias contains zero characters or a semicolon (;), or the RequestorEmail element of the Info element is NULL.
RequestStatus.ObjectNotFound	The specified e-mail alias cannot be found in either the DS or the collection of distribution lists that are pending creation.
RequestStatus.AccessDenied	Automatic approvals are enabled and the protocol client does not

Value	Description
	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.

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 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](#))
- **DeleteDistributionGroup** (section [3.1.4.6.2.1](#))
- **ModifyDistributionGroup** (section [3.1.4.9](#))
- **RenameDistributionGroup** (section [3.1.4.10](#))

If the request was created by a **CreateDistributionGroup** operation, and the **RequestStatus** element (section [2.2.5.4](#)) 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.

```
<wsdl:operation name="GetJobStatus">
<wsdl:input message="GetJobStatusSoapIn" />
<wsdl:output message="GetJobStatusSoapOut" />
</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

3.1.4.7.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.7.1.1 GetJobStatusSoapIn

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus>

The SOAP body contains a **GetJobStatus** element.

3.1.4.7.1.2 GetJobStatusSoapOut

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **GetJobStatusResponse** element.

3.1.4.7.2 Elements

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

Element	Description
GetJobStatus	Body of the GetJobStatusSoapIn message.
GetJobStatusResponse	Body of the GetJobStatusSoapOut message.

3.1.4.7.2.1 GetJobStatus

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

```
<s:element name="GetJobStatus">
<s:complexType>
<s:sequence>
<s:element name="JobId" type="s:int" />
</s:sequence>
</s:complexType>
</s:element>
```

JobId: The identifier that is returned in a **RequestResponse** type (section [2.2.4.3](#)) by the original operation, which is either a **CreateDistributionGroup** (section [3.1.4.4](#)), **DeleteDistributionGroup** (section [3.1.4.6.2.1](#)), **ModifyDistributionGroup** (section [3.1.4.9](#)), or **RenameDistributionGroup** (section [3.1.4.10](#)) 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.

3.1.4.7.2.2 GetJobStatusResponse

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

```
<s:element name="GetJobStatusResponse">
<s:complexType>
<s:sequence>
<s:element name="GetJobStatusResult" type="tns:RequestResponse" />
</s:sequence>
</s:complexType>
</s:element>
```

GetJobStatusResult: The protocol server MUST return a **RequestResponse** complex type (section 2.2.4.3) in the response message. The **JobStatus** element of the **RequestResponse** type MUST 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.

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Atttibute Groups

None.

3.1.4.8 ModifyContact

The **ModifyContact** operation is used to modify the properties of an existing contact (3) in a DS.

```
<wsdl:operation name="ModifyContact">
<wsdl:input message="ModifyContactSoapIn" />
<wsdl:output message="ModifyContactSoapOut" />
</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**

3.1.4.8.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.8.1.1 **ModifyContactSoapIn**

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **ModifyContact** element.

3.1.4.8.1.2 **ModifyContactSoapOut**

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **ModifyContactResponse** element.

3.1.4.8.2 Elements

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

Element	Description
ModifyContactStatus	Body of the ModifyContactSoapIn message.

Element	Description
ModifyContactResponse	Body of the ModifyContactSoapOut message.

3.1.4.8.2.1 ModifyContact

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

```
<s:element name="ModifyContact">
<s:complexType>
<s:sequence>
<s:element name="OldAlias" type="s:string" />
<s:element name="NewAlias" type="s:string" minOccurs="0"/>
<s:element name="FirstName" type="s:string" />
<s:element name="LastName" type="s:string" />
<s:element name="ForwardingEmail" type="s:string" minOccurs="0"/>
<s:element name="Flags" type="tns>ContactFlags" />
</s:sequence>
</s:complexType>
</s:element>
```

OldAlias: The current e-mail alias of the contact (3). Limitations on this value are specified in [\[MS-ADA1\]](#) section 2.110. Additionally, this value MUST consist of 255 or fewer characters.

NewAlias: The new e-mail alias of the contact (3). If a value is not specified, the e-mail alias of the contact (3) 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 (3). Limitations on this value are specified in [\[MS-ADA1\]](#) section 2.273.

LastName: The last name of the contact (3). Limitations on this value are specified in [\[MS-ADA3\]](#) section 2.274.

ForwardingEmail: The e-mail address where e-mail messages are forwarded for the contact (3).

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

3.1.4.8.2.2 ModifyContactResponse

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

```
<s:element name="ModifyContactResponse">
<s:complexType>
<s:sequence>
<s:element name="ModifyContactResult" type="tns:RequestStatus" />
</s:sequence>
</s:complexType>
</s:element>
```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS 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.

3.1.4.8.3 Complex Types

None.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9 ModifyDistributionGroup

The **ModifyDistributionGroup** operation is used to change properties of an existing distribution list in a DS.

```

<wsdl:operation name="ModifyDistributionGroup">
<wsdl:input message="ModifyDistributionGroupSoapIn" />
<wsdl:output message="ModifyDistributionGroupSoapOut" />
</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**

3.1.4.9.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.9.1.1 **ModifyDistributionGroupSoapIn**

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionGroup>

The SOAP body contains a **ModifyDistributionGroup** element.

3.1.4.9.1.2 **ModifyDistributionGroupSoapOut**

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionGroup>

The SOAP body contains a **ModifyDistributionGroupResponse** element.

3.1.4.9.2 Elements

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

Element	Description
ModifyDistributionGroup	Body of the ModifyDistributionGroupSoapIn message.
ModifyDistributionGroupResponse	Body of the ModifyDistributionGroupSoapOut message.

3.1.4.9.2.1 ModifyDistributionGroup

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

```
<s:element name="ModifyDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="Alias" type="s:string" />
<s:element name="Name" type="s:string" />
<s:element name="Description" type="s:string" minOccurs="0" />
<s:element name="ContactCN" type="s:string" minOccurs="0" />
<s:element name="Info" type="tns:RequestInfo" />
<s:element name="Flags" type="tns:DistributionGroupFlags" />
</s:sequence>
</s:complexType>
</s:element>
```

Alias: The e-mail alias of 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.

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.

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 (3) 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](#)) that contains additional information about the request.

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

3.1.4.9.2.2 ModifyDistributionGroupResponse

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

```
<s:element name="ModifyDistributionGroupResponse">
<s:complexType>
<s:sequence>
```

```

<s:element name="ModifyDistributionGroupResult" type="tns:RequestResponse" />
</s:sequence>
</s:complexType>
</s:element>

```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS 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 element cannot 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.

3.1.4.9.3 Complex Types

None.

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 RenameDistributionGroup

The **RenameDistributionGroup** operation is used to change the name of an existing distribution list in a DS.

```
<wsdl:operation name="RenameDistributionGroup">
<wsdl:input message="RenameDistributionGroupSoapIn" />
<wsdl:output message="RenameDistributionGroupSoapOut" />
</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

3.1.4.10.1 Messages

The following table summarizes the set of WSDL 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.

3.1.4.10.1.1 RenameDistributionGroupSoapIn

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

The SOAP action value of the message is defined as follows.

<http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionGroup>

The SOAP body contains a **RenameDistributionGroup** element.

3.1.4.10.1.2 RenameDistributionGroupSoapOut

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

The SOAP action value of the message is defined as follows.

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

The SOAP body contains a **RenameDistributionGroupResponse** element.

3.1.4.10.2 Elements

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

Element	Description
RenameDistributionGroup	Body of the RenameDistributionGroupSoapIn message.
RenameDistributionGroupResponse	Body of the RenameDistributionGroupSoapOut message.

3.1.4.10.2.1 RenameDistributionGroup

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

```
<s:element name="RenameDistributionGroup">
<s:complexType>
<s:sequence>
<s:element name="OldAlias" type="s:string" />
<s:element name="NewAlias" type="s:string" />
<s:element name="Info" type="tns:RequestInfo" />
</s:sequence>
</s:complexType>
</s:element>
```

OldAlias: The e-mail alias of 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.

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](#)) that contains additional information about the request.

3.1.4.10.2.2 RenameDistributionGroupResponse

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

```
<s:element name="RenameDistributionGroupResponse">
<s:complexType>
```

```

<s:sequence>
<s:element name="RenameDistributionGroupResult" type="tns:RequestResponse" />
</s:sequence>
</s:complexType>
</s:element>

```

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

Value	Description
RequestStatus.ServiceNotConfigured	The DS 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 element cannot 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.

3.1.4.10.3 Complex Types

None.

3.1.4.10.4 Simple Types

None.

3.1.4.10.5 Attributes

None.

3.1.4.10.6 Groups

None.

3.1.4.10.7 Attribute Groups

None.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 Create and Add Contacts to a Distribution List

This scenario demonstrates how to create a new distribution list, add a contact (3) to a distribution list, and verify that the requests were approved.

4.1.1 Create a Distribution List

In this example, a new distribution list named "DistGroup01" is created on the protocol server, in response to a request from a protocol client. The e-mail alias of the distribution list is "DistGroup01".

The protocol client sends the following request message:

```
<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">  
    <soap:Body>  
        <CreateDistributionGroup  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <Alias>DistGroup01</Alias>  
            <Name>DistGroup01</Name>  
            <ContactCN />  
            <Info>  
                <RequestorEmail>adam.carter@example.com</RequestorEmail>  
                <RequestId>00000000-0000-0000-0000-000000000000</RequestId>  
            </Info>  
            <Flags>None</Flags>  
        </CreateDistributionGroup>  
    </soap:Body>  
</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:

```
<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">  
    <soap:Body>  
        <CreateDistributionGroupResponse  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <CreateDistributionGroupResult>  
                <JobID>0</JobID>  
                <JobStatus>Success</JobStatus>  
                <Alias>DistGroup01</Alias>  
            </CreateDistributionGroupResult>  
        </CreateDistributionGroupResponse>  
    </soap:Body>  
</soap:Envelope>
```

4.1.2 Add a Contact to a Distribution List

In this example, the contact (3) uniquely identified by the domain account "Example\smasters" is added to a distribution list named "addmembersdl".

The protocol client sends the following request message:

```
<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">  
    <soap:Body>  
        <ChangeUsersMembershipInDistributionGroup  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <Alias>addmembersdl</Alias>  
            <AddNt4NameList>  
                <string>Example\smasters</string>  
            </AddNt4NameList>  
            <DeleteNt4NameList />  
            <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>  
        </ChangeUsersMembershipInDistributionGroup>  
    </soap:Body>  
</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:

```
<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">  
    <soap:Body>  
        <ChangeUsersMembershipInDistributionGroupResponse  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <ChangeUsersMembershipInDistributionGroupResult>Success</ChangeUsersMembershipInD  
istributionGroupResult>  
        </ChangeUsersMembershipInDistributionGroupResponse>  
    </soap:Body>  
</soap:Envelope>
```

4.2 Create and Add a Contact to a Distribution List

This scenario demonstrates how to create a new contact (3) and how to add a contact (3) to an existing distribution list.

4.2.1 Create a Contact

In this example, a contact (3) named "Steve Masters" is added to the DS. The contact's e-mail alias is "Steve.Masters". The contact's forwarding e-mail address is "Steve.Masters@example.com".

The protocol client sends the following request message:

```
<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">  
    <soap:Body>
```

```

<CreateContact
xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
    <Alias>Steve.Masters</Alias>
    <FirstName>Steve</FirstName>
    <LastName>Masters</LastName>
    <ForwardingEmail>steve.masters@example.com</ForwardingEmail>
    <Flags>None</Flags>
</CreateContact>
</soap:Body>
</soap:Envelope>

```

The protocol server adds the contact (3) "Steve Masters" to the DS and returns the status value "Success" in the following response message:

```

<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">
    <soap:Body>
        <CreateContactResponse
xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <CreateContactResult>Success</CreateContactResult>
        </CreateContactResponse>
    </soap:Body>
</soap:Envelope>

```

4.2.2 Add a Contact to a Distribution List

In this example, a contact (3) with the e-mail alias "Lori.Kane" is added to the distribution list named "AddMembersDL".

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <ChangeContactsMembershipInDistributionGroup
xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <Alias>AddMembersDL</Alias>
            <AddListForContacts>
                <string>Lori.Kane</string>
            </AddListForContacts>
            <DeleteListForContacts>
                <string />
            </DeleteListForContacts>
            <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>
        </ChangeContactsMembershipInDistributionGroup>
    </soap:Body>
</soap:Envelope>

```

The protocol server adds the contact (3) to the distribution list and returns the status value "Success" in the following response message:

```

<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">
    <soap:Body>
        <ChangeContactsMembershipInDistributionGroupResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <ChangeContactsMembershipInDistributionGroupResult>Success</ChangeContactsMembers-
            hipInDistributionGroupResult>
        </ChangeContactsMembershipInDistributionGroupResponse>
    </soap:Body>
</soap:Envelope>

```

4.3 Modify a Contact

This scenario demonstrates how to modify an existing contact (3) in a DS. The contact's e-mail alias is changed from "steve.masters" to "steved.masters". The contact's name is changed from "Steve Masters" to "Steve D Masters". The contact's forwarding e-mail address is changed from "steve.masters@example.com" to "steved.masters@example.com".

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <ModifyContact
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <OldAlias>steve.masters</OldAlias>
            <NewAlias>steved.masters</NewAlias>
            <FirstName>Steve D</FirstName>
            <LastName>Masters</LastName>
            <ForwardingEmail>steved.masters@example.com</ForwardingEmail>
            <Flags>None</Flags>
        </ModifyContact>
    </soap:Body>
</soap:Envelope>

```

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

```

<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">
    <soap:Body>
        <ModifyContactResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <ModifyContactResult>Success</ModifyContactResult>
        </ModifyContactResponse>
    </soap:Body>
</soap:Envelope>

```

4.4 Remove a Contact and Rename a Distribution List

This scenario demonstrates how to remove a contact (3) from a distribution list, delete a contact (3), and rename a distribution list.

4.4.1 Remove a Contact from a Distribution List

In this example, a contact (3) with the e-mail alias "steved.masters" is removed from the distribution list named "AddMembersDL".

The protocol client sends the following request message:

```
<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">  
    <soap:Body>  
        <ChangeContactsMembershipInDistributionGroup  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <Alias>AddMembersDL</Alias>  
            <AddListForContacts>  
                <string />  
            </AddListForContacts>  
            <DeleteListForContacts>  
                <string>steved.masters</string>  
            </DeleteListForContacts>  
            <DeleteAllCurrentMembers>false</DeleteAllCurrentMembers>  
        </ChangeContactsMembershipInDistributionGroup>  
    </soap:Body>  
</soap:Envelope>
```

The protocol server removes the contact (3) from the distribution list and returns the status value "Success" in the following response message:

```
<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">  
    <soap:Body>  
        <ChangeContactsMembershipInDistributionGroupResponse  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <ChangeContactsMembershipInDistributionGroupResult>Success</ChangeContactsMembershipInDistributionGroupResult>  
        </ChangeContactsMembershipInDistributionGroupResponse>  
    </soap:Body>  
</soap:Envelope>
```

4.4.2 Delete a Contact

In this example, the contact (3) with the e-mail alias "steved.masters" is deleted from the DS.

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <DeleteContact
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <Alias>steved.masters</Alias>
        </DeleteContact>
    </soap:Body>
</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:

```

<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">
    <soap:Body>
        <DeleteContactResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <DeleteContactResult>Success</DeleteContactResult>
        </DeleteContactResponse>
    </soap:Body>
</soap:Envelope>

```

4.4.3 Change the Name of a Distribution List

In this example, a protocol client with the e-mail address "adam.carter@example.com" submits a request to change the e-mail alias of an existing distribution list from "DistGroup01" to "RenamedDG01".

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <RenameDistributionGroup
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <OldAlias>DistGroup01</OldAlias>
            <NewAlias>RenamedDG01</NewAlias>
            <Info>
                <RequestorEmail>adam.carter@example.com</RequestorEmail>
                <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
            </Info>
        </RenameDistributionGroup>
    </soap:Body>
</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) with the value "PendingApproval", and returns information about this job in the following response message:

```

<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">
    <soap:Body>
        <RenameDistributionGroupResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <RenameDistributionGroupResult>
                <JobID>76</JobID>
                <JobStatus>PendingApproval</JobStatus>
                <Alias>DistGroup01</Alias>
            </RenameDistributionGroupResult>
        </RenameDistributionGroupResponse>
    </soap:Body>
</soap:Envelope>

```

4.5 Modify a Distribution List

In this example, a protocol client with the e-mail address "adam.carter@example.com" submits a request to change the e-mail alias of an existing distribution list from "RenamedDG01" to "NewNameDG01".

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <ModifyDistributionGroup
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <Alias>RenamedDG01</Alias>
            <Name>NewNameDG01</Name>
            <Description>any description</Description>
            <Info>
                <RequestorEmail>adam.carter@example.com</RequestorEmail>
                <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
            </Info>
            <Flags>None</Flags>
        </ModifyDistributionGroup>
    </soap:Body>
</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](#)) with the value "PendingApproval", and returns information about the job in the following response message:

```

<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">
    <soap:Body>
        <ModifyDistributionGroupResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <ModifyDistributionGroupResult>
                <JobID>78</JobID>
                <JobStatus>PendingApproval</JobStatus>
                <Alias>RenamedDG01</Alias>
            </ModifyDistributionGroupResult>
        </ModifyDistributionGroupResponse>
    </soap:Body>
</soap:Envelope>

```

```

        </ModifyDistributionGroupResult>
    </ModifyDistributionGroupResponse>
</soap:Body>
</soap:Envelope>

```

4.6 Delete a Distribution List

In this example, a protocol client with the e-mail address "adam.carter@example.com" submits a request to delete an existing distribution list, which has the e-mail alias "RenamedDG01".

The protocol client sends the following request message:

```

<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">
    <soap:Body>
        <DeleteDistributionGroup
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <Alias>RenamedDG01</Alias>
            <Info>
                <RequestorEmail>adam.carter@example.com</RequestorEmail>
                <RequestId>00000000-0000-0000-0000-000000000000</RequestId>
            </Info>
        </DeleteDistributionGroup>
    </soap:Body>
</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:

```

<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">
    <soap:Body>
        <DeleteDistributionGroupResponse
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
            <DeleteDistributionGroupResult>
                <JobID>0</JobID>
                <JobStatus>Success</JobStatus>
                <Alias>RenamedDG01</Alias>
            </DeleteDistributionGroupResult>
        </DeleteDistributionGroupResponse>
    </soap:Body>
</soap:Envelope>

```

4.7 Check the Status of a Deletion Request

This scenario demonstrates how to delete a distribution list and check the status of that request before and after the request is processed by the protocol server.

4.7.1 Delete a Distribution List

In this example, a protocol client with the e-mail address "adam.carter@example.com" submits a request to delete the existing distribution list that has the e-mail alias "SorosalDL6".

The protocol client sends the following request message:

```
<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">  
    <soap:Body>  
        <DeleteDistributionGroup  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <Alias>SorosalDL6</Alias>  
            <Info>  
                <RequestorEmail>adam.carter@example.com</RequestorEmail>  
                <RequestId>00000000-0000-0000-0000-000000000000</RequestId>  
            </Info>  
        </DeleteDistributionGroup>  
    </soap:Body>  
</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) with the value "PendingApproval", and returns information about the job in the following response message:

```
<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">  
    <soap:Body>  
        <DeleteDistributionGroupResponse  
            xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <DeleteDistributionGroupResult>  
                <JobID>108</JobID>  
                <JobStatus>PendingApproval</JobStatus>  
                <Alias>SorosalDL6</Alias>  
            </DeleteDistributionGroupResult>  
        </DeleteDistributionGroupResponse>  
    </soap:Body>  
</soap:Envelope>
```

4.7.2 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:

```
<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">  
    <soap:Body>  
        <GetJobStatus xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">  
            <JobId>108</JobId>  
        </GetJobStatus>  
    </soap:Body>  
</soap:Envelope>
```

```
</GetJobStatus>
</soap:Body>
</soap:Envelope>
```

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

```
<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">
  <soap:Body>
    <GetJobStatusResponse
      xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
      <GetJobStatusResult>
        <JobID>108</JobID>
        <Comment />
        <JobStatus>PendingApproval</JobStatus>
        <Alias>ScorosalDL6</Alias>
      </GetJobStatusResult>
    </GetJobStatusResponse>
  </soap:Body>
</soap:Envelope>
```

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

```
<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">
  <soap:Body>
    <GetJobStatusResponse
      xmlns="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/">
      <GetJobStatusResult>
        <JobID>108</JobID>
        <Comment />
        <JobStatus>Success</JobStatus>
        <Alias>ScorosalDL6</Alias>
      </GetJobStatusResult>
    </GetJobStatusResponse>
  </soap:Body>
</soap:Envelope>
```

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

```
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.
   at System.Web.Services.Protocols.SoapHttpClientProtocol.ReadResponse(SoapClientMessage message, WebResponse response, Stream responseStream, Boolean asyncCall)
   at System.Web.Services.Protocols.SoapHttpClientProtocol.Invoke(String methodName, Object[] parameters)
   at WebSvcClient.SharepointEmailWSProxy.SharepointEmailWS.GetJobStatus(Int32 JobId)
```

```
    --- End of inner exception stack trace ---
    at System.RuntimeMethodHandle._InvokeMethodFast(Object target, Object[] arguments,
SignatureStruct& sig, MethodAttributes methodAttributes, RuntimeTypeHandle typeOwner)
    at System.RuntimeMethodHandle.InvokeMethodFast(Object target, Object[] arguments,
Signature sig, MethodAttributes methodAttributes, RuntimeTypeHandle typeOwner)
    at System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder
binder, Object[] parameters, CultureInfo culture, Boolean skipVisibilityChecks)
    at System.Reflection.RuntimeMethodInfo.Invoke(Object obj, BindingFlags invokeAttr, Binder
binder, Object[] parameters, CultureInfo culture)
    at WebSvcClient.ProxyWrapper.WebMethodCallWorker()
```

Preliminary

60 / 77

[MS-SPEMAWS] — v20120411
SharePoint E-Mail Web Service Protocol Specification

Copyright © 2012 Microsoft Corporation.

Release: Wednesday, April 11, 2012

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

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

```
<?xml version="1.0" encoding="utf-8"?>
<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/">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Sharepoint Email
  Integration Web Service</wsdl:documentation>
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
      targetNamespace="http://microsoft.com/webservices/SharePoint/SharepointEmailWS">
      <s:import namespace="http://microsoft.com/wsdl/types/" />
      <s:element name="CreateContact">
        <s:complexType>
          <s:sequence>
            <s:element name="Alias" type="s:string" />
            <s:element name="FirstName" type="s:string" />
            <s:element name="LastName" type="s:string" />
            <s:element name="ForwardingEmail" type="s:string" />
            <s:element name="Flags" type="tns>ContactFlags" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:simpleType name="ContactFlags">
        <s:restriction base="s:string">
          <s:enumeration value="None" />
          <s:enumeration value="OnlyAllowAuthenticatedEmail" />
        </s:restriction>
      </s:simpleType>
      <s:element name="CreateContactResponse">
        <s:complexType>
          <s:sequence>
            <s:element name="CreateContactResult" type="tns:RequestStatus" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:simpleType name="RequestStatus">
        <s:restriction base="s:string">
          <s:enumeration value="Success" />
          <s:enumeration value="PendingApproval" />
          <s:enumeration value="ApprovalDenied" />
          <s:enumeration value="DuplicateAlias" />
          <s:enumeration value="InvalidArgument" />
          <s:enumeration value="ServiceNotConfigured" />
          <s:enumeration value="AccessDenied" />
          <s:enumeration value="ServerUnavailable" />
          <s:enumeration value="ObjectNotFound" />
          <s:enumeration value="InvalidMember" />
        </s:restriction>
      </s:simpleType>
    </s:schema>
  </wsdl:types>

```

```

        <s:enumeration value="InternalError" />
    </s:restriction>
</s:simpleType>
<s:element name="DeleteContact">
    <s:complexType>
        <s:sequence>
            <s:element name="Alias" type="s:string" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="DeleteContactResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="DeleteContactResult" type="tns:RequestStatus" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="ModifyContact">
    <s:complexType>
        <s:sequence>
            <s:element name="OldAlias" type="s:string" />
            <s:element minOccurs="0" name="NewAlias" type="s:string" />
            <s:element name="FirstName" type="s:string" />
            <s:element name="LastName" type="s:string" />
            <s:element minOccurs="0" name="ForwardingEmail" type="s:string" />
            <s:element name="Flags" type="tns:ContactFlags" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="ModifyContactResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="ModifyContactResult" type="tns:RequestStatus" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="CreateDistributionGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="Alias" type="s:string" />
            <s:element name="Name" type="s:string" />
            <s:element minOccurs="0" name="Description" type="s:string" />
            <s:element minOccurs="0" name="ContactCN" type="s:string" />
            <s:element name="Info" type="tns:RequestInfo" />
            <s:element name="Flags" type="tns:DistributionGroupFlags" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:complexType name="RequestInfo">
    <s:sequence>
        <s:element name="RequestorEmail" type="s:string" />
        <s:element minOccurs="0" name="Justification" type="s:string" />
        <s:element name="RequestId" type="s1:guid" />
    </s:sequence>
</s:complexType>
<s:element name="CreateDistributionGroupResponse">
    <s:complexType>

```

```

        <s:sequence>
            <s:element name="CreateDistributionGroupResult"
type="tns:RequestResponse" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:complexType name="RequestResponse">
    <s:sequence>
        <s:element name="JobID" type="s:int" />
        <s:element minOccurs="0" name="Comment" type="s:string" />
        <s:element name="JobStatus" type="tns:RequestStatus" />
        <s:element minOccurs="0" name="Alias" type="s:string" />
    </s:sequence>
</s:complexType>
<s:element name="DeleteDistributionGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="Alias" type="s:string" />
            <s:element name="Info" type="tns:RequestInfo" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="DeleteDistributionGroupResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="DeleteDistributionGroupResult"
type="tns:RequestResponse" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RenameDistributionGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="OldAlias" type="s:string" />
            <s:element name="NewAlias" type="s:string" />
            <s:element name="Info" type="tns:RequestInfo" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RenameDistributionGroupResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="RenameDistributionGroupResult"
type="tns:RequestResponse" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="ModifyDistributionGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="Alias" type="s:string" />
            <s:element name="Name" type="s:string" />
            <s:element minOccurs="0" name="Description" type="s:string" />
            <s:element minOccurs="0" name="ContactCN" type="s:string" />
            <s:element name="Info" type="tns:RequestInfo" />
            <s:element name="Flags" type="tns:DistributionGroupFlags" />
        </s:sequence>
    </s:complexType>
</s:element>

```

```

        </s:complexType>
    </s:element>
    <s:simpleType name="DistributionGroupFlags">
        <s:restriction base="s:string">
            <s:enumeration value="None" />
            <s:enumeration value="OnlyAllowAuthenticatedEmail" />
        </s:restriction>
    </s:simpleType>
    <s:element name="ModifyDistributionGroupResponse">
        <s:complexType>
            <s:sequence>
                <s:element name="ModifyDistributionGroupResult"
type="tns:RequestResponse" />
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="GetJobStatus">
        <s:complexType>
            <s:sequence>
                <s:element name="JobId" type="s:int" />
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="GetJobStatusResponse">
        <s:complexType>
            <s:sequence>
                <s:element name="GetJobStatusResult" type="tns:RequestResponse" />
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="ChangeUsersMembershipInDistributionGroup">
        <s:complexType>
            <s:sequence>
                <s:element minOccurs="0" name="Alias" type="s:string" />
                <s:element minOccurs="0" name="AddNt4NameList" type="tns:ArrayOfString"
/>
                <s:element minOccurs="0" name="DeleteNt4NameList"
type="tns:ArrayOfString" />
                <s:element name="DeleteAllCurrentMembers" type="s:boolean" />
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:complexType name="ArrayOfString">
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="unbounded" name="string"
nillable="true" type="s:string" />
        </s:sequence>
    </s:complexType>
    <s:element name="ChangeUsersMembershipInDistributionGroupResponse">
        <s:complexType>
            <s:sequence>
                <s:element name="ChangeUsersMembershipInDistributionGroupResult"
type="tns:RequestStatus" />
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="ChangeContactsMembershipInDistributionGroup">
        <s:complexType>

```

```

<s:sequence>
    <s:element name="Alias" type="s:string" />
    <s:element minOccurs="0" name="AddListForContacts"
type="tns:ArrayOfString" />
        <s:element minOccurs="0" name="DeleteListForContacts"
type="tns:ArrayOfString" />
            <s:element name="DeleteAllCurrentMembers" type="s:boolean" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="ChangeContactsMembershipInDistributionGroupResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="ChangeContactsMembershipInDistributionGroupResult"
type="tns:RequestStatus" />
        </s:sequence>
    </s:complexType>
</s:element>
</s:schema>
<s:schema elementFormDefault="qualified"
targetNamespace="http://microsoft.com/wsdl/types/">
    <s:simpleType name="guid">
        <s:restriction base="s:string">
            <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}" />
        </s:restriction>
    </s:simpleType>
</s:schema>
</wsdl:types>
<wsdl:message name="CreateContactSoapIn">
    <wsdl:part name="parameters" element="tns:CreateContact" />
</wsdl:message>
<wsdl:message name="CreateContactSoapOut">
    <wsdl:part name="parameters" element="tns:CreateContactResponse" />
</wsdl:message>
<wsdl:message name="DeleteContactSoapIn">
    <wsdl:part name="parameters" element="tns:DeleteContact" />
</wsdl:message>
<wsdl:message name="DeleteContactSoapOut">
    <wsdl:part name="parameters" element="tns:DeleteContactResponse" />
</wsdl:message>
<wsdl:message name="ModifyContactSoapIn">
    <wsdl:part name="parameters" element="tns:ModifyContact" />
</wsdl:message>
<wsdl:message name="ModifyContactSoapOut">
    <wsdl:part name="parameters" element="tns:ModifyContactResponse" />
</wsdl:message>
<wsdl:message name="CreateDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns>CreateDistributionGroup" />
</wsdl:message>
<wsdl:message name="CreateDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:CreateDistributionGroupResponse" />
</wsdl:message>
<wsdl:message name="DeleteDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns:DeleteDistributionGroup" />
</wsdl:message>
<wsdl:message name="DeleteDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:DeleteDistributionGroupResponse" />

```

```

</wsdl:message>
<wsdl:message name="RenameDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns:RenameDistributionGroup" />
</wsdl:message>
<wsdl:message name="RenameDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:RenameDistributionGroupResponse" />
</wsdl:message>
<wsdl:message name="ModifyDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns:ModifyDistributionGroup" />
</wsdl:message>
<wsdl:message name="ModifyDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:ModifyDistributionGroupResponse" />
</wsdl:message>
<wsdl:message name="GetJobStatusSoapIn">
    <wsdl:part name="parameters" element="tns:GetJobStatus" />
</wsdl:message>
<wsdl:message name="GetJobStatusSoapOut">
    <wsdl:part name="parameters" element="tns:GetJobStatusResponse" />
</wsdl:message>
<wsdl:message name="ChangeUsersMembershipInDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns:ChangeUsersMembershipInDistributionGroup" />
</wsdl:message>
<wsdl:message name="ChangeUsersMembershipInDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:ChangeUsersMembershipInDistributionGroupResponse" />
</wsdl:message>
<wsdl:message name="ChangeContactsMembershipInDistributionGroupSoapIn">
    <wsdl:part name="parameters" element="tns:ChangeContactsMembershipInDistributionGroup" />
/>
</wsdl:message>
<wsdl:message name="ChangeContactsMembershipInDistributionGroupSoapOut">
    <wsdl:part name="parameters" element="tns:ChangeContactsMembershipInDistributionGroupResponse" />
</wsdl:message>
<wsdl:portType name="SharepointEmailWSSoap">
    <wsdl:operation name="CreateContact">
        <wsdl:input message="tns:CreateContactSoapIn" />
        <wsdl:output message="tns:CreateContactSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="DeleteContact">
        <wsdl:input message="tns:DeleteContactSoapIn" />
        <wsdl:output message="tns:DeleteContactSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="ModifyContact">
        <wsdl:input message="tns:ModifyContactSoapIn" />
        <wsdl:output message="tns:ModifyContactSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="CreateDistributionGroup">
        <wsdl:input message="tns>CreateDistributionGroupSoapIn" />
        <wsdl:output message="tns>CreateDistributionGroupSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="DeleteDistributionGroup">
        <wsdl:input message="tns>DeleteDistributionGroupSoapIn" />
        <wsdl:output message="tns>DeleteDistributionGroupSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="RenameDistributionGroup">
        <wsdl:input message="tns:RenameDistributionGroupSoapIn" />

```

```

        <wsdl:output message="tns:RenameDistributionGroupSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="ModifyDistributionGroup">
        <wsdl:input message="tns:ModifyDistributionGroupSoapIn" />
        <wsdl:output message="tns:ModifyDistributionGroupSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="GetJobStatus">
        <wsdl:input message="tns:GetJobStatusSoapIn" />
        <wsdl:output message="tns:GetJobStatusSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
        <wsdl:input message="tns:ChangeUsersMembershipInDistributionGroupSoapIn" />
        <wsdl:output message="tns:ChangeUsersMembershipInDistributionGroupSoapOut" />
    </wsdl:operation>
    <wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
        <wsdl:input message="tns:ChangeContactsMembershipInDistributionGroupSoapIn" />
        <wsdl:output message="tns:ChangeContactsMembershipInDistributionGroupSoapOut" />
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="SharepointEmailWSSoap" type="tns:SharepointEmailWSSoap">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="CreateContact">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DeleteContact">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModifyContact">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyContact"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CreateDistributionGroup">
        <soap:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionG
roup" style="document" />

```

```
<wsdl:input>
    <soap:body use="literal" />
</wsdl:input>
<wsdl:output>
    <soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="DeleteDistributionGroup">
    <soap:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteDistributionG
roup" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RenameDistributionGroup">
    <soap:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionG
roup" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ModifyDistributionGroup">
    <soap:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionG
roup" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetJobStatus">
    <soap:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus"
        style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
    <soap:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembersh
ipInDistributionGroup" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
```

```
<wsdl:output>
    <soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
    <soap:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeContactsMembershipInDistributionGroup" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
<wsdl:binding name="SharepointEmailWSSoap12" type="tns:SharepointEmailWSSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="CreateContact">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateContact" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DeleteContact">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteContact" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModifyContact">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyContact" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CreateDistributionGroup">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/CreateDistributionGroup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
```

```

        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DeleteDistributionGroup">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/DeleteDistributionG
roup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RenameDistributionGroup">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/RenameDistributionG
roup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ModifyDistributionGroup">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ModifyDistributionG
roup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetJobStatus">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/GetJobStatus"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ChangeUsersMembershipInDistributionGroup">
        <soap12:operation
soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeUsersMembersh
ipInDistributionGroup" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>

```

```
</wsdl:operation>
<wsdl:operation name="ChangeContactsMembershipInDistributionGroup">
    <soap12:operation
        soapAction="http://microsoft.com/webservices/SharePoint/SharepointEmailWS/ChangeContactsMembe
        rshipInDistributionGroup" style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

Preliminary

72 / 77

[MS-SPEMAWS] — v20120411
SharePoint E-Mail Web Service Protocol Specification

Copyright © 2012 Microsoft Corporation.

Release: Wednesday, April 11, 2012

7 Appendix B: Product Behavior

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

- The 2007 Microsoft® Office system
- Microsoft® Office 2010 suites
- Microsoft® Office 15 Technical Preview
- Windows® SharePoint® Services 3.0
- Microsoft® SharePoint® Foundation 2010
- Microsoft® SharePoint® Foundation 15 Technical Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

<1> Section 2.2.5.3: This type is available only in Office 15 Technical Preview and SharePoint Foundation 15 Technical Preview.

8 Change Tracking

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

Preliminary

9 Index

A

Abstract data model
[server](#) 17
Add a contact to a distribution list example ([section 4.1.2](#) 51, [section 4.2.2](#) 52)
[Applicability](#) 10
[ArrayOfString complex type](#) 12
[Attribute groups](#) 16
[Attributes](#) 16

C

[Capability negotiation](#) 10
[Change the e-mail alias of a distribution list example](#) 56
[Change the name of a distribution list example](#) 55
[Change tracking](#) 74
[Check the status of a job example](#) 58
Client
 [overview](#) 17
[Common data structures](#) 16
[Complex types](#) 12
 [ArrayOfString](#) 12
 [RequestInfo](#) 12
 [RequestResponse](#) 13
[ContactFlags simple type](#) 14
[Create a contact example](#) 51
[Create a distribution list example](#) 50

D

Data model - abstract
[server](#) 17
[Delete a contact example](#) 54
Delete a distribution list example ([section 4.6](#) 57, [section 4.7.1](#) 58)
[DistributionGroupFlags simple type](#) 14

E

Elements
server
 [ChangeContactsMembershipInDistributionGroup_p](#) 20
 [ChangeContactsMembershipInDistributionGroup_pResponse](#) 20
 [ChangeUsersMembershipInDistributionGroup](#) 23
 [ChangeUsersMembershipInDistributionGroupRe_sponse](#) 24
 [CreateContact](#) 26
 [CreateContactResponse](#) 26
 [CreateDistributionGroup](#) 29
 [CreateDistributionGroupResponse](#) 29
 [DeleteContact](#) 32
 [DeleteContactResponse](#) 32

[DeleteDistributionGroup](#) 35
[DeleteDistributionGroupResponse](#) 35
[GetJobStatus](#) 38
[GetJobStatusResponse](#) 38
[ModifyContact](#) 41
[ModifyContactResponse](#) 41
[ModifyDistributionGroup](#) 44
[ModifyDistributionGroupResponse](#) 44
[RenameDistributionGroup](#) 47
[RenameDistributionGroupResponse](#) 47

Events

[local - server](#) 49
[timer - server](#) 49

Examples

add a contact to a distribution list ([section 4.1.2](#) 51, [section 4.2.2](#) 52)
[change the e-mail alias of a distribution list](#) 56
[change the name of a distribution list](#) 55
[check the status of a job](#) 58
[create a contact](#) 51
[create a distribution list](#) 50
[delete a contact](#) 54
delete a distribution list ([section 4.6](#) 57, [section 4.7.1](#) 58)
[modify a contact](#) 53
[remove a contact from a distribution list](#) 54

F

[Fields - vendor-extensible](#) 10
[Full WSDL](#) 62

G

[Glossary](#) 8
[Groups](#) 16
[guid simple type](#) 14

I

[Implementer - security considerations](#) 61
[Index of security parameters](#) 61
[Informative references](#) 9
Initialization
 [server](#) 18
[Introduction](#) 7

L

Local events
 [server](#) 49

M

Message processing
 [server](#) 18
Messages

[ArrayOfString complex type](#) 12
[attribute groups](#) 16
[attributes](#) 16
[common data structures](#) 16
[complex types](#) 12
[ContactFlags simple type](#) 14
[DistributionGroupFlags simple type](#) 14
[elements](#) 11
[enumerated](#) 11
[groups](#) 16
[guid simple type](#) 14
[namespaces](#) 11
[RequestInfo complex type](#) 12
[RequestResponse complex type](#) 13
[RequestStatus simple type](#) 15
server
[ChangeContactsMembershipInDistributionGroupSoapIn](#) 19
[ChangeContactsMembershipInDistributionGroupSoapOut](#) 19
[ChangeUsersMembershipInDistributionGroupSoapIn](#) 22
[ChangeUsersMembershipInDistributionGroupSoapOut](#) 22
[CreateContactSoapIn](#) 25
[CreateContactSoapOut](#) 25
[CreateDistributionGroupSoapIn](#) 28
[CreateDistributionGroupSoapOut](#) 28
[DeleteContactSoapIn](#) 31
[DeleteContactSoapOut](#) 32
[DeleteDistributionGroupSoapIn](#) 34
[DeleteDistributionGroupSoapOut](#) 34
[GetJobStatusSoapIn](#) 37
[GetJobStatusSoapOut](#) 38
[ModifyContactSoapIn](#) 40
[ModifyContactSoapOut](#) 40
[ModifyDistributionGroupSoapIn](#) 43
[ModifyDistributionGroupSoapOut](#) 43
[RenameDistributionGroupSoapIn](#) 46
[RenameDistributionGroupSoapOut](#) 47
[simple types](#) 13
[syntax](#) 11
[transport](#) 11
[Modify a contact example](#) 53

N

[Namespaces](#) 11
[Normative references](#) 8

O

Operations
[ChangeContactsMembershipInDistributionGroup](#) 18
[ChangeUsersMembershipInDistributionGroup](#) 21
[CreateContact](#) 25
[CreateDistributionGroup](#) 27
[DeleteContact](#) 31
[DeleteDistributionGroup](#) 33
[GetJobStatus](#) 36
[ModifyContact](#) 39

[ModifyDistributionGroup](#) 42
[RenameDistributionGroup](#) 46
[Overview \(synopsis\)](#) 9

P

[Parameters - security index](#) 61
[Preconditions](#) 10
[Prerequisites](#) 10
[Product behavior](#) 73

R

[References](#) 8
[informative](#) 9
[normative](#) 8
[Relationship to other protocols](#) 9
[Remove a contact from a distribution list example](#) 54
[RequestInfo complex type](#) 12
[RequestResponse complex type](#) 13
[RequestStatus simple type](#) 15

S

Security
[implementer considerations](#) 61
[parameter index](#) 61
Sequencing rules
[server](#) 18
Server
[abstract data model](#) 17
[ChangeContactsMembershipInDistributionGroup](#)
[operation](#) 18
[ChangeUsersMembershipInDistributionGroup](#)
[operation](#) 21
[CreateContact](#) operation 25
[CreateDistributionGroup](#) operation 27
[DeleteContact](#) operation 31
[DeleteDistributionGroup](#) operation 33
[GetJobStatus](#) operation 36
[initialization](#) 18
[local events](#) 49
[message processing](#) 18
[ModifyContact](#) operation 39
[ModifyDistributionGroup](#) operation 42
[overview](#) 17
[RenameDistributionGroup](#) operation 46
[sequencing rules](#) 18
SharepointEmailWSSoap
[details](#) 17
[timer events](#) 49
[timers](#) 18
Simple types 13
[ContactFlags](#) 14
[DistributionGroupFlags](#) 14
[guid](#) 14
[RequestStatus](#) 15
[Standards assignments](#) 10
Syntax
[messages - overview](#) 11

T

Timer events
 [server](#) 49
Timers
 [server](#) 18
[Tracking changes](#) 74
[Transport](#) 11
Types
 [complex](#) 12
 [ArrayOfString](#) 12
 [RequestInfo](#) 12
 [RequestResponse](#) 13
 [simple](#) 13
 [ContactFlags](#) 14
 [DistributionGroupFlags](#) 14
 [RequestStatus](#) 15

V

[Vendor-extensible fields](#) 10
[Versioning](#) 10

W

[WSDL](#) 62