

# [MS-UGS]: UserGroup 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](mailto: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
12/12/2008	1.01	Editorial	Revised and edited the technical content
07/13/2009	1.02	Major	Revised and edited the technical content
08/28/2009	1.03	Editorial	Revised and edited the technical content
11/06/2009	1.04	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	Editorial	Changed language and formatting in 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.

Preliminary

# Table of Contents

<b>1 Introduction</b>	<b>16</b>
1.1 Glossary	16
1.2 References	17
1.2.1 Normative References	17
1.2.2 Informative References	17
1.3 Protocol Overview (Synopsis)	18
1.4 Relationship to Other Protocols	18
1.5 Prerequisites/Preconditions	18
1.6 Applicability Statement	18
1.7 Versioning and Capability Negotiation	18
1.8 Vendor-Extensible Fields	18
1.9 Standards Assignments	19
<b>2 Messages</b>	<b>20</b>
2.1 Transport	20
2.2 Common Message Syntax	20
2.2.1 Namespaces	20
2.2.2 Messages	20
2.2.3 Elements	20
2.2.3.1 detail	21
2.2.4 Complex Types	21
2.2.4.1 Group	21
2.2.4.2 Groups	22
2.2.4.3 User	22
2.2.4.4 Users	23
2.2.4.5 InputUserType	23
2.2.4.6 InputUsersType	24
2.2.4.7 RolesOutputMaskType	24
2.2.4.8 RolesOutputTextType	24
2.2.5 Simple Types	25
2.2.5.1 PrincipalType	26
2.2.5.2 String251Type	26
2.2.5.3 String255Type	26
2.2.5.4 String255OrEmptyType	27
2.2.5.5 String512OrEmptyType	27
2.2.5.6 String1023OrEmptyType	27
2.2.6 Attributes	27
2.2.7 Groups	27
2.2.8 Attribute Groups	27
2.2.9 Common Data Structures	27
<b>3 Protocol Details</b>	<b>28</b>
3.1 UserGroups Web Service Server Details	28
3.1.1 Abstract Data Model	28
3.1.2 Timers	29
3.1.3 Initialization	29
3.1.4 Message Processing Events and Sequencing Rules	29
3.1.4.1 AddGroup	31
3.1.4.1.1 Messages	32
3.1.4.1.1.1 AddGroupSoapIn	32

3.1.4.1.1.2	AddGroupSoapOut .....	32
3.1.4.1.2	Elements .....	32
3.1.4.1.2.1	AddGroup .....	33
3.1.4.1.2.2	AddGroupResponse .....	33
3.1.4.1.3	Complex Types .....	33
3.1.4.1.4	Simple Types .....	33
3.1.4.1.5	Attributes .....	34
3.1.4.1.6	Groups .....	34
3.1.4.1.7	Attribute Groups .....	34
3.1.4.2	AddGroupToRole .....	34
3.1.4.2.1	Messages .....	34
3.1.4.2.1.1	AddGroupToRoleSoapIn .....	34
3.1.4.2.1.2	AddGroupToRoleSoapOut .....	35
3.1.4.2.2	Elements .....	35
3.1.4.2.2.1	AddGroupToRole .....	35
3.1.4.2.2.2	AddGroupToRoleResponse .....	35
3.1.4.2.3	Complex Types .....	36
3.1.4.2.4	Simple Types .....	36
3.1.4.2.5	Attributes .....	36
3.1.4.2.6	Groups .....	36
3.1.4.2.7	Attribute Groups .....	36
3.1.4.3	AddRole .....	36
3.1.4.3.1	Messages .....	36
3.1.4.3.1.1	AddRoleSoapIn .....	37
3.1.4.3.1.2	AddRoleSoapOut .....	37
3.1.4.3.2	Elements .....	37
3.1.4.3.2.1	AddRole .....	37
3.1.4.3.2.2	AddRoleResponse .....	38
3.1.4.3.3	Complex Types .....	38
3.1.4.3.4	Simple Types .....	38
3.1.4.3.5	Attributes .....	38
3.1.4.3.6	Groups .....	38
3.1.4.3.7	Attribute Groups .....	38
3.1.4.4	AddRoleDef .....	38
3.1.4.4.1	Messages .....	39
3.1.4.4.1.1	AddRoleDefSoapIn .....	39
3.1.4.4.1.2	AddRoleDefSoapOut .....	39
3.1.4.4.2	Elements .....	39
3.1.4.4.2.1	AddRoleDef .....	40
3.1.4.4.2.2	AddRoleDefResponse .....	40
3.1.4.4.3	Complex Types .....	40
3.1.4.4.4	Simple Types .....	40
3.1.4.4.5	Attributes .....	40
3.1.4.4.6	Groups .....	40
3.1.4.4.7	Attribute Groups .....	40
3.1.4.5	AddUserCollectionToGroup .....	41
3.1.4.5.1	Messages .....	41
3.1.4.5.1.1	AddUserCollectionToGroupSoapIn .....	41
3.1.4.5.1.2	AddUserCollectionToGroupSoapOut .....	42
3.1.4.5.2	Elements .....	42
3.1.4.5.2.1	AddUserCollectionToGroup .....	42
3.1.4.5.2.2	AddUserCollectionToGroupResponse .....	42
3.1.4.5.3	Complex Types .....	43

3.1.4.5.4	Simple Types	43
3.1.4.5.5	Attributes	43
3.1.4.5.6	Groups	43
3.1.4.5.7	Attribute Groups	43
3.1.4.6	AddUserCollectionToRole	43
3.1.4.6.1	Messages	44
3.1.4.6.1.1	AddUserCollectionToRoleSoapIn	44
3.1.4.6.1.2	AddUserCollectionToRoleSoapOut	44
3.1.4.6.2	Elements	44
3.1.4.6.2.1	AddUserCollectionToRole	44
3.1.4.6.2.2	AddUserCollectionToRoleResponse	45
3.1.4.6.3	Complex Types	45
3.1.4.6.4	Simple Types	45
3.1.4.6.5	Attributes	45
3.1.4.6.6	Groups	45
3.1.4.6.7	Attribute Groups	45
3.1.4.7	AddUserToGroup	45
3.1.4.7.1	Messages	46
3.1.4.7.1.1	AddUserToGroupSoapIn	46
3.1.4.7.1.2	AddUserToGroupSoapOut	46
3.1.4.7.2	Elements	46
3.1.4.7.2.1	AddUserToGroup	47
3.1.4.7.2.2	AddUserToGroupResponse	47
3.1.4.7.3	Complex Types	47
3.1.4.7.4	Simple Types	48
3.1.4.7.5	Attributes	48
3.1.4.7.6	Groups	48
3.1.4.7.7	Attribute Groups	48
3.1.4.8	AddUserToRole	48
3.1.4.8.1	Messages	48
3.1.4.8.1.1	AddUserToRoleSoapIn	49
3.1.4.8.1.2	AddUserToRoleSoapOut	49
3.1.4.8.2	Elements	49
3.1.4.8.2.1	AddUserToRole	49
3.1.4.8.2.2	AddUserToRoleResponse	50
3.1.4.8.3	Complex Types	50
3.1.4.8.4	Simple Types	50
3.1.4.8.5	Attributes	50
3.1.4.8.6	Groups	50
3.1.4.8.7	Attribute Groups	50
3.1.4.9	GetAllUserCollectionFromWeb	50
3.1.4.9.1	Messages	51
3.1.4.9.1.1	GetAllUserCollectionFromWebSoapIn	51
3.1.4.9.1.2	GetAllUserCollectionFromWebSoapOut	51
3.1.4.9.2	Elements	51
3.1.4.9.2.1	GetAllUserCollectionFromWeb	52
3.1.4.9.2.2	GetAllUserCollectionFromWebResponse	52
3.1.4.9.3	Complex Types	52
3.1.4.9.4	Simple Types	52
3.1.4.9.5	Attributes	52
3.1.4.9.6	Groups	52
3.1.4.9.7	Attribute Groups	53
3.1.4.10	GetCurrentUserInfo	53

3.1.4.10.1	Messages .....	53
3.1.4.10.1.1	GetCurrentUserInfoSoapIn .....	53
3.1.4.10.1.2	GetCurrentUserInfoSoapOut .....	53
3.1.4.10.2	Elements .....	54
3.1.4.10.2.1	GetCurrentUserInfo .....	54
3.1.4.10.2.2	GetCurrentUserInfoResponse .....	54
3.1.4.10.3	Complex Types .....	54
3.1.4.10.4	Simple Types .....	54
3.1.4.10.5	Attributes .....	55
3.1.4.10.6	Groups .....	55
3.1.4.10.7	Attribute Groups .....	55
3.1.4.11	GetGroupCollection .....	55
3.1.4.11.1	Messages .....	55
3.1.4.11.1.1	GetGroupCollectionSoapIn .....	55
3.1.4.11.1.2	GetGroupCollectionSoapOut .....	56
3.1.4.11.2	Elements .....	56
3.1.4.11.2.1	GetGroupCollection .....	56
3.1.4.11.2.2	GetGroupCollectionResponse .....	56
3.1.4.11.3	Complex Types .....	57
3.1.4.11.3.1	GroupsInputType .....	57
3.1.4.11.4	Simple Types .....	57
3.1.4.11.5	Attributes .....	58
3.1.4.11.6	Groups .....	58
3.1.4.11.7	Attribute Groups .....	58
3.1.4.12	GetGroupCollectionFromRole .....	58
3.1.4.12.1	Messages .....	58
3.1.4.12.1.1	GetGroupCollectionFromRoleSoapIn .....	58
3.1.4.12.1.2	GetGroupCollectionFromRoleSoapOut .....	59
3.1.4.12.2	Elements .....	59
3.1.4.12.2.1	GetGroupCollectionFromRole .....	59
3.1.4.12.2.2	GetGroupCollectionFromRoleResponse .....	59
3.1.4.12.3	Complex Types .....	60
3.1.4.12.4	Simple Types .....	60
3.1.4.12.5	Attributes .....	60
3.1.4.12.6	Groups .....	60
3.1.4.12.7	Attribute Groups .....	60
3.1.4.13	GetGroupCollectionFromSite .....	60
3.1.4.13.1	Messages .....	61
3.1.4.13.1.1	GetGroupCollectionFromSiteSoapIn .....	61
3.1.4.13.1.2	GetGroupCollectionFromSiteSoapOut .....	61
3.1.4.13.2	Elements .....	61
3.1.4.13.2.1	GetGroupCollectionFromSite .....	61
3.1.4.13.2.2	GetGroupCollectionFromSiteResponse .....	62
3.1.4.13.3	Complex Types .....	62
3.1.4.13.4	Simple Types .....	62
3.1.4.13.5	Attributes .....	62
3.1.4.13.6	Groups .....	62
3.1.4.13.7	Attribute Groups .....	62
3.1.4.14	GetGroupCollectionFromUser .....	62
3.1.4.14.1	Messages .....	63
3.1.4.14.1.1	GetGroupCollectionFromUserSoapIn .....	63
3.1.4.14.1.2	GetGroupCollectionFromUserSoapOut .....	63
3.1.4.14.2	Elements .....	64

3.1.4.14.2.1	GetGroupCollectionFromUser.....	64
3.1.4.14.2.2	GetGroupCollectionFromUserResponse .....	64
3.1.4.14.3	Complex Types .....	65
3.1.4.14.4	Simple Types .....	65
3.1.4.14.5	Attributes .....	65
3.1.4.14.6	Groups.....	65
3.1.4.14.7	Attribute Groups.....	65
3.1.4.15	GetGroupCollectionFromWeb .....	65
3.1.4.15.1	Messages .....	65
3.1.4.15.1.1	GetGroupCollectionFromWebSoapIn .....	66
3.1.4.15.1.2	GetGroupCollectionFromWebSoapOut.....	66
3.1.4.15.2	Elements .....	66
3.1.4.15.2.1	GetGroupCollectionFromWeb.....	66
3.1.4.15.2.2	GetGroupCollectionFromWebResponse .....	66
3.1.4.15.3	Complex Types .....	67
3.1.4.15.4	Simple Types .....	67
3.1.4.15.5	Attributes .....	67
3.1.4.15.6	Groups.....	67
3.1.4.15.7	Attribute Groups.....	67
3.1.4.16	GetGroupInfo .....	67
3.1.4.16.1	Messages .....	68
3.1.4.16.1.1	GetGroupInfoSoapIn .....	68
3.1.4.16.1.2	GetGroupInfoSoapOut.....	68
3.1.4.16.2	Elements.....	68
3.1.4.16.2.1	GetGroupInfo .....	68
3.1.4.16.2.2	GetGroupInfoResponse.....	69
3.1.4.16.3	Complex Types .....	69
3.1.4.16.4	Simple Types .....	69
3.1.4.16.5	Attributes .....	69
3.1.4.16.6	Groups.....	69
3.1.4.16.7	Attribute Groups.....	69
3.1.4.17	GetRoleCollection.....	70
3.1.4.17.1	Messages .....	70
3.1.4.17.1.1	GetRoleCollectionSoapIn.....	70
3.1.4.17.1.2	GetRoleCollectionSoapOut.....	70
3.1.4.17.2	Elements.....	71
3.1.4.17.2.1	GetRoleCollection.....	71
3.1.4.17.2.2	GetRoleCollectionResponse .....	71
3.1.4.17.3	Complex Types .....	72
3.1.4.17.3.1	RolesInputType .....	72
3.1.4.17.4	Simple Types .....	72
3.1.4.17.5	Attributes .....	72
3.1.4.17.6	Groups.....	72
3.1.4.17.7	Attribute Groups.....	72
3.1.4.18	GetRoleCollectionFromGroup .....	72
3.1.4.18.1	Messages .....	73
3.1.4.18.1.1	GetRoleCollectionFromGroupSoapIn .....	73
3.1.4.18.1.2	GetRoleCollectionFromGroupSoapOut.....	73
3.1.4.18.2	Elements .....	74
3.1.4.18.2.1	GetRoleCollectionFromGroup .....	74
3.1.4.18.2.2	GetRoleCollectionFromGroupResponse.....	74
3.1.4.18.3	Complex Types .....	75
3.1.4.18.4	Simple Types .....	75



3.1.4.18.5	Attributes .....	75
3.1.4.18.6	Groups.....	75
3.1.4.18.7	Attribute Groups.....	75
3.1.4.19	GetRoleCollectionFromUser .....	75
3.1.4.19.1	Messages .....	75
3.1.4.19.1.1	GetRoleCollectionFromUserSoapIn .....	76
3.1.4.19.1.2	GetRoleCollectionFromUserSoapOut .....	76
3.1.4.19.2	Elements.....	76
3.1.4.19.2.1	GetRoleCollectionFromUser .....	76
3.1.4.19.2.2	GetRoleCollectionFromUserResponse.....	76
3.1.4.19.3	Complex Types .....	77
3.1.4.19.4	Simple Types .....	77
3.1.4.19.5	Attributes .....	77
3.1.4.19.6	Groups.....	77
3.1.4.19.7	Attribute Groups.....	77
3.1.4.20	GetRoleCollectionFromWeb .....	77
3.1.4.20.1	Messages .....	78
3.1.4.20.1.1	GetRoleCollectionFromWebSoapIn .....	78
3.1.4.20.1.2	GetRoleCollectionFromWebSoapOut .....	78
3.1.4.20.2	Elements.....	78
3.1.4.20.2.1	GetRoleCollectionFromWeb .....	78
3.1.4.20.2.2	GetRoleCollectionFromWebResponse.....	79
3.1.4.20.3	Complex Types .....	79
3.1.4.20.4	Simple Types .....	79
3.1.4.20.5	Attributes .....	79
3.1.4.20.6	Groups.....	79
3.1.4.20.7	Attribute Groups.....	79
3.1.4.21	GetRoleInfo.....	79
3.1.4.21.1	Messages .....	80
3.1.4.21.1.1	GetRoleInfoSoapIn.....	80
3.1.4.21.1.2	GetRoleInfoSoapOut .....	80
3.1.4.21.2	Elements.....	80
3.1.4.21.2.1	GetRoleInfo.....	81
3.1.4.21.2.2	GetRoleInfoResponse .....	81
3.1.4.21.3	Complex Types .....	81
3.1.4.21.3.1	RoleOutputType.....	81
3.1.4.21.4	Simple Types.....	82
3.1.4.21.5	Attributes .....	82
3.1.4.21.6	Groups.....	82
3.1.4.21.7	Attribute Groups.....	82
3.1.4.22	GetRolesAndPermissionsForCurrentUser.....	83
3.1.4.22.1	Messages .....	83
3.1.4.22.1.1	GetRolesAndPermissionsForCurrentUserSoapIn.....	83
3.1.4.22.1.2	GetRolesAndPermissionsForCurrentUserSoapOut .....	83
3.1.4.22.2	Elements.....	84
3.1.4.22.2.1	GetRolesAndPermissionsForCurrentUser .....	84
3.1.4.22.2.2	GetRolesAndPermissionsForCurrentUserResponse .....	84
3.1.4.22.3	Complex Types .....	85
3.1.4.22.4	Simple Types .....	85
3.1.4.22.5	Attributes .....	85
3.1.4.22.6	Groups.....	85
3.1.4.22.7	Attribute Groups.....	85
3.1.4.23	GetRolesAndPermissionsForSite .....	85

3.1.4.23.1	Messages .....	86
3.1.4.23.1.1	GetRolesAndPermissionsForSiteSoapIn .....	86
3.1.4.23.1.2	GetRolesAndPermissionsForSiteSoapOut .....	86
3.1.4.23.2	Elements .....	86
3.1.4.23.2.1	GetRolesAndPermissionsForSite .....	86
3.1.4.23.2.2	GetRolesAndPermissionsForSiteResponse .....	87
3.1.4.23.3	Complex Types .....	87
3.1.4.23.4	Simple Types .....	87
3.1.4.23.5	Attributes .....	87
3.1.4.23.6	Groups .....	87
3.1.4.23.7	Attribute Groups .....	87
3.1.4.24	GetUserCollection .....	87
3.1.4.24.1	Messages .....	88
3.1.4.24.1.1	GetUserCollectionSoapIn .....	88
3.1.4.24.1.2	GetUserCollectionSoapOut .....	88
3.1.4.24.2	Elements .....	88
3.1.4.24.2.1	GetUserCollection .....	89
3.1.4.24.2.2	GetUserCollectionResponse .....	89
3.1.4.24.3	Complex Types .....	90
3.1.4.24.4	Simple Types .....	90
3.1.4.24.5	Attributes .....	90
3.1.4.24.6	Groups .....	90
3.1.4.24.7	Attribute Groups .....	90
3.1.4.25	GetUserCollectionFromGroup .....	90
3.1.4.25.1	Messages .....	90
3.1.4.25.1.1	GetUserCollectionFromGroupSoapIn .....	91
3.1.4.25.1.2	GetUserCollectionFromGroupSoapOut .....	91
3.1.4.25.2	Elements .....	91
3.1.4.25.2.1	GetUserCollectionFromGroup .....	91
3.1.4.25.2.2	GetUserCollectionFromGroupResponse .....	92
3.1.4.25.3	Complex Types .....	92
3.1.4.25.4	Simple Types .....	92
3.1.4.25.5	Attributes .....	92
3.1.4.25.6	Groups .....	92
3.1.4.25.7	Attribute Groups .....	92
3.1.4.26	GetUserCollectionFromRole .....	92
3.1.4.26.1	Messages .....	93
3.1.4.26.1.1	GetUserCollectionFromRoleSoapIn .....	93
3.1.4.26.1.2	GetUserCollectionFromRoleSoapOut .....	93
3.1.4.26.2	Elements .....	93
3.1.4.26.2.1	GetUserCollectionFromRole .....	94
3.1.4.26.2.2	GetUserCollectionFromRoleResponse .....	94
3.1.4.26.3	Complex Types .....	94
3.1.4.26.4	Simple Types .....	95
3.1.4.26.5	Attributes .....	95
3.1.4.26.6	Groups .....	95
3.1.4.26.7	Attribute Groups .....	95
3.1.4.27	GetUserCollectionFromSite .....	95
3.1.4.27.1	Messages .....	95
3.1.4.27.1.1	GetUserCollectionFromSiteSoapIn .....	95
3.1.4.27.1.2	GetUserCollectionFromSiteSoapOut .....	96
3.1.4.27.2	Elements .....	96
3.1.4.27.2.1	GetUserCollectionFromSite .....	96

3.1.4.27.2.2	GetUserCollectionFromSiteResponse .....	96
3.1.4.27.3	Complex Types .....	97
3.1.4.27.4	Simple Types .....	97
3.1.4.27.5	Attributes .....	97
3.1.4.27.6	Groups .....	97
3.1.4.27.7	Attribute Groups .....	97
3.1.4.28	GetUserCollectionFromWeb .....	97
3.1.4.28.1	Messages .....	97
3.1.4.28.1.1	GetUserCollectionFromWebSoapIn .....	98
3.1.4.28.1.2	GetUserCollectionFromWebSoapOut .....	98
3.1.4.28.2	Elements .....	98
3.1.4.28.2.1	GetUserCollectionFromWeb .....	98
3.1.4.28.2.2	GetUserCollectionFromWebResponse .....	99
3.1.4.28.3	Complex Types .....	99
3.1.4.28.4	Simple Types .....	99
3.1.4.28.5	Attributes .....	99
3.1.4.28.6	Groups .....	99
3.1.4.28.7	Attribute Groups .....	99
3.1.4.29	GetUserInfo .....	99
3.1.4.29.1	Messages .....	100
3.1.4.29.1.1	GetUserInfoSoapIn .....	100
3.1.4.29.1.2	GetUserInfoSoapOut .....	100
3.1.4.29.2	Elements .....	100
3.1.4.29.2.1	GetUserInfo .....	101
3.1.4.29.2.2	GetUserInfoResponse .....	101
3.1.4.29.3	Complex Types .....	101
3.1.4.29.4	Simple Types .....	101
3.1.4.29.5	Attributes .....	102
3.1.4.29.6	Groups .....	102
3.1.4.29.7	Attribute Groups .....	102
3.1.4.30	GetUserLoginFromEmail .....	102
3.1.4.30.1	Messages .....	102
3.1.4.30.1.1	GetUserLoginFromEmailSoapIn .....	102
3.1.4.30.1.2	GetUserLoginFromEmailSoapOut .....	103
3.1.4.30.2	Elements .....	103
3.1.4.30.2.1	GetUserLoginFromEmail .....	103
3.1.4.30.2.2	GetUserLoginFromEmailResponse .....	103
3.1.4.30.3	Complex Types .....	104
3.1.4.30.3.1	EmailsInputType .....	104
3.1.4.30.3.2	EmailsOutputType .....	104
3.1.4.30.4	Simple Types .....	105
3.1.4.30.5	Attributes .....	105
3.1.4.30.6	Groups .....	105
3.1.4.30.7	Attribute Groups .....	105
3.1.4.31	RemoveGroup .....	105
3.1.4.31.1	Messages .....	106
3.1.4.31.1.1	RemoveGroupSoapIn .....	106
3.1.4.31.1.2	RemoveGroupSoapOut .....	106
3.1.4.31.2	Elements .....	106
3.1.4.31.2.1	RemoveGroup .....	107
3.1.4.31.2.2	RemoveGroupResponse .....	107
3.1.4.31.3	Complex Types .....	107
3.1.4.31.4	Simple Types .....	107

3.1.4.31.5	Attributes .....	107
3.1.4.31.6	Groups.....	107
3.1.4.31.7	Attribute Groups.....	107
3.1.4.32	RemoveGroupFromRole .....	107
3.1.4.32.1	Messages .....	108
3.1.4.32.1.1	RemoveGroupFromRoleSoapIn .....	108
3.1.4.32.1.2	RemoveGroupFromRoleSoapOut .....	108
3.1.4.32.2	Elements.....	109
3.1.4.32.2.1	RemoveGroupFromRole .....	109
3.1.4.32.2.2	RemoveGroupFromRoleResponse .....	109
3.1.4.32.3	Complex Types .....	109
3.1.4.32.4	Simple Types .....	109
3.1.4.32.5	Attributes .....	109
3.1.4.32.6	Groups.....	110
3.1.4.32.7	Attribute Groups.....	110
3.1.4.33	RemoveRole.....	110
3.1.4.33.1	Messages .....	110
3.1.4.33.1.1	RemoveRoleSoapIn .....	110
3.1.4.33.1.2	RemoveRoleSoapOut.....	111
3.1.4.33.2	Elements.....	111
3.1.4.33.2.1	RemoveRole.....	111
3.1.4.33.2.2	RemoveRoleResponse .....	111
3.1.4.33.3	Complex Types .....	111
3.1.4.33.4	Simple Types .....	111
3.1.4.33.5	Attributes .....	112
3.1.4.33.6	Groups.....	112
3.1.4.33.7	Attribute Groups.....	112
3.1.4.34	RemoveUserCollectionFromGroup .....	112
3.1.4.34.1	Messages .....	112
3.1.4.34.1.1	RemoveUserCollectionFromGroupSoapIn .....	112
3.1.4.34.1.2	RemoveUserCollectionFromGroupSoapOut .....	113
3.1.4.34.2	Elements.....	113
3.1.4.34.2.1	RemoveUserCollectionFromGroup .....	113
3.1.4.34.2.2	RemoveUserCollectionFromGroupResponse .....	114
3.1.4.34.3	Complex Types .....	114
3.1.4.34.4	Simple Types .....	114
3.1.4.34.5	Attributes .....	114
3.1.4.34.6	Groups.....	114
3.1.4.34.7	Attribute Groups.....	114
3.1.4.35	RemoveUserCollectionFromRole .....	114
3.1.4.35.1	Messages .....	115
3.1.4.35.1.1	RemoveUserCollectionFromRoleSoapIn .....	115
3.1.4.35.1.2	RemoveUserCollectionFromRoleSoapOut.....	115
3.1.4.35.2	Elements.....	115
3.1.4.35.2.1	RemoveUserCollectionFromRole .....	116
3.1.4.35.2.2	RemoveUserCollectionFromRoleResponse .....	116
3.1.4.35.3	Complex Types .....	116
3.1.4.35.4	Simple Types .....	116
3.1.4.35.5	Attributes .....	116
3.1.4.35.6	Groups.....	116
3.1.4.35.7	Attribute Groups.....	116
3.1.4.36	RemoveUserCollectionFromSite .....	117
3.1.4.36.1	Messages .....	117

3.1.4.36.1.1	RemoveUserCollectionFromSiteSoapIn .....	117
3.1.4.36.1.2	RemoveUserCollectionFromSiteSoapOut .....	117
3.1.4.36.2	Elements .....	118
3.1.4.36.2.1	RemoveUserCollectionFromSite .....	118
3.1.4.36.2.2	RemoveUserCollectionFromSiteResponse .....	118
3.1.4.36.3	Complex Types .....	118
3.1.4.36.4	Simple Types .....	119
3.1.4.36.5	Attributes .....	119
3.1.4.36.6	Groups.....	119
3.1.4.36.7	Attribute Groups.....	119
3.1.4.37	RemoveUserFromGroup .....	119
3.1.4.37.1	Messages .....	119
3.1.4.37.1.1	RemoveUserFromGroupSoapIn .....	120
3.1.4.37.1.2	RemoveUserFromGroupSoapOut.....	120
3.1.4.37.2	Elements .....	120
3.1.4.37.2.1	RemoveUserFromGroup .....	120
3.1.4.37.2.2	RemoveUserFromGroupResponse .....	121
3.1.4.37.3	Complex Types .....	121
3.1.4.37.4	Simple Types .....	121
3.1.4.37.5	Attributes .....	121
3.1.4.37.6	Groups.....	121
3.1.4.37.7	Attribute Groups.....	121
3.1.4.38	RemoveUserFromRole .....	121
3.1.4.38.1	Messages .....	122
3.1.4.38.1.1	RemoveUserFromRoleSoapIn .....	122
3.1.4.38.1.2	RemoveUserFromRoleSoapOut .....	122
3.1.4.38.2	Elements .....	122
3.1.4.38.2.1	RemoveUserFromRole .....	122
3.1.4.38.2.2	RemoveUserFromRoleResponse .....	123
3.1.4.38.3	Complex Types .....	123
3.1.4.38.4	Simple Types .....	123
3.1.4.38.5	Attributes .....	123
3.1.4.38.6	Groups.....	123
3.1.4.38.7	Attribute Groups.....	123
3.1.4.39	RemoveUserFromSite .....	123
3.1.4.39.1	Messages .....	124
3.1.4.39.1.1	RemoveUserFromSiteSoapIn .....	124
3.1.4.39.1.2	RemoveUserFromSiteSoapOut .....	124
3.1.4.39.2	Elements .....	124
3.1.4.39.2.1	RemoveUserFromSite .....	125
3.1.4.39.2.2	RemoveUserFromSiteResponse.....	125
3.1.4.39.3	Complex Types .....	125
3.1.4.39.4	Simple Types .....	125
3.1.4.39.5	Attributes .....	125
3.1.4.39.6	Groups.....	125
3.1.4.39.7	Attribute Groups.....	125
3.1.4.40	RemoveUserFromWeb .....	125
3.1.4.40.1	Messages .....	126
3.1.4.40.1.1	RemoveUserFromWebSoapIn .....	126
3.1.4.40.1.2	RemoveUserFromWebSoapOut .....	126
3.1.4.40.2	Elements .....	127
3.1.4.40.2.1	RemoveUserFromWeb .....	127
3.1.4.40.2.2	RemoveUserFromWebResponse .....	127

3.1.4.40.3	Complex Types .....	127
3.1.4.40.4	Simple Types .....	127
3.1.4.40.5	Attributes .....	127
3.1.4.40.6	Groups .....	127
3.1.4.40.7	Attribute Groups .....	128
3.1.4.41	UpdateGroupInfo .....	128
3.1.4.41.1	Messages .....	128
3.1.4.41.1.1	UpdateGroupInfoSoapIn .....	129
3.1.4.41.1.2	UpdateGroupInfoSoapOut .....	129
3.1.4.41.2	Elements .....	129
3.1.4.41.2.1	UpdateGroupInfo .....	129
3.1.4.41.2.2	UpdateGroupInfoResponse .....	130
3.1.4.41.3	Complex Types .....	130
3.1.4.41.4	Simple Types .....	130
3.1.4.41.5	Attributes .....	130
3.1.4.41.6	Groups .....	130
3.1.4.41.7	Attribute Groups .....	130
3.1.4.42	UpdateRoleDefInfo .....	130
3.1.4.42.1	Messages .....	131
3.1.4.42.1.1	UpdateRoleDefInfoSoapIn .....	131
3.1.4.42.1.2	UpdateRoleDefInfoSoapOut .....	131
3.1.4.42.2	Elements .....	131
3.1.4.42.2.1	UpdateRoleDefInfo .....	132
3.1.4.42.2.2	UpdateRoleDefInfoResponse .....	132
3.1.4.42.3	Complex Types .....	132
3.1.4.42.4	Simple Types .....	132
3.1.4.42.5	Attributes .....	133
3.1.4.42.6	Groups .....	133
3.1.4.42.7	Attribute Groups .....	133
3.1.4.43	UpdateRoleInfo .....	133
3.1.4.43.1	Messages .....	133
3.1.4.43.1.1	UpdateRoleInfoSoapIn .....	133
3.1.4.43.1.2	UpdateRoleInfoSoapOut .....	134
3.1.4.43.2	Elements .....	134
3.1.4.43.2.1	UpdateRoleInfo .....	134
3.1.4.43.2.2	UpdateRoleInfoResponse .....	135
3.1.4.43.3	Complex Types .....	135
3.1.4.43.4	Simple Types .....	135
3.1.4.43.5	Attributes .....	135
3.1.4.43.6	Groups .....	135
3.1.4.43.7	Attribute Groups .....	135
3.1.4.44	UpdateUserInfo .....	135
3.1.4.44.1	Messages .....	136
3.1.4.44.1.1	UpdateUserInfoSoapIn .....	136
3.1.4.44.1.2	UpdateUserInfoSoapOut .....	136
3.1.4.44.2	Elements .....	136
3.1.4.44.2.1	UpdateUserInfo .....	136
3.1.4.44.2.2	UpdateUserInfoResponse .....	137
3.1.4.44.3	Complex Types .....	137
3.1.4.44.4	Simple Types .....	137
3.1.4.44.5	Attributes .....	137
3.1.4.44.6	Groups .....	137
3.1.4.44.7	Attribute Groups .....	137

3.1.5	Timer Events .....	137
3.1.6	Other Local Events .....	137
<b>4</b>	<b>Protocol Examples .....</b>	<b>138</b>
4.1	Add Users, Groups, and Role Definitions .....	138
4.2	Retrieve and Update User Information .....	140
4.3	Remove Groups and Users from a Group .....	141
<b>5</b>	<b>Security .....</b>	<b>143</b>
5.1	Security Considerations for Implementers .....	143
5.2	Index of Security Parameters .....	143
<b>6</b>	<b>Appendix A: Full WSDL .....</b>	<b>144</b>
<b>7</b>	<b>Appendix B: Product Behavior .....</b>	<b>185</b>
<b>8</b>	<b>Change Tracking .....</b>	<b>190</b>
<b>9</b>	<b>Index .....</b>	<b>191</b>

# 1 Introduction

This document specifies the UserGroup Web Service Protocol. This protocol enables the definition, modification, and retrieval of information about users, groups, and roles.

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)**  
**domain user**  
**security identifier (SID)**

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

**Active Directory account creation mode**  
**display name**  
**domain group**  
**e-mail address**  
**folder**  
**group**  
**list**  
**login name**  
**owner**  
**parent site**  
**permission**  
**role**  
**role definition**  
**security principal**  
**site**  
**site collection**  
**SOAP action**  
**SOAP body**  
**SOAP fault**  
**Uniform Resource Locator (URL)**  
**Web Services Description Language (WSDL)**  
**XML element**  
**XML namespace**  
**XML namespace prefix**  
**XML schema**  
**XML schema definition (XSD)**

The following terms are specific to this document:

**role type:** A predefined role definition. Typical values include Guest, Reader, and Administrator.

**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](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-DWSS] Microsoft Corporation, "[Document Workspace Web Service Protocol Specification](#)".

[MS-WSSFO2] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Version 2 Protocol Specification](#)".

[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/>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

### 1.2.2 Informative References

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

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

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

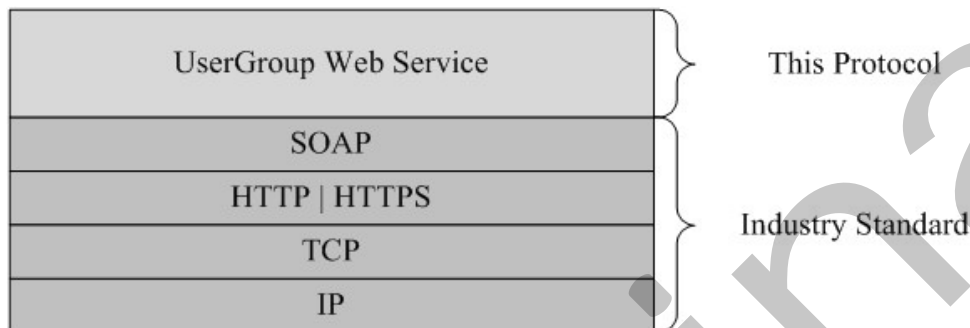
### 1.3 Protocol Overview (Synopsis)

This protocol enables the protocol client to define, modify, and retrieve information about users or **groups (2)** and the **role definitions** to which they are assigned in a particular **site (2)** or **site collection**. This protocol provides support for 44 distinct operations, each with its own specific request and response messages. A list of these distinct operations is provided in section [3.1.4](#).

### 1.4 Relationship to Other Protocols

This protocol uses SOAP messages for formatting requests and responses, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#), and [\[SOAP1.2/2\]](#). It transmits these messages by using the HTTP protocol, as described in [\[RFC2616\]](#), or the HTTPS protocol, as described in [\[RFC2818\]](#).

The UserGroup Web Service Protocol uses SOAP over HTTP or HTTPS as shown in the following layering diagram:



**Figure 1: This protocol in relation to other protocols**

### 1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending `"/_vti_bin/UserGroup.asmx"` to the URL of the site (2), for example:

`http://www.contoso.com:56737/SharedServices1/_vti_bin/UserGroup.asmx`.

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

### 1.6 Applicability Statement

This protocol provides operations for a protocol client to add, remove, update, and retrieve information about the users, groups (2), and role definitions that are able to access a site (2) or site collection [<1>](#). This protocol does not provide any facility for a protocol client to authenticate or to authorize a user to perform any action, nor does it provide any facility for a protocol client to create a site or define the relationship between a site and its **parent site**.

### 1.7 Versioning and Capability Negotiation

Supported Transports: This protocol uses multiple transports with SOAP as described in section [2.1](#).

### 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

Preliminary

## 2 Messages

### 2.1 Transport

Protocol servers MUST support SOAP over HTTP. Protocol servers SHOULD additionally support SOAP over HTTPS for securing communication with clients.

Protocol messages MUST be formatted as specified either in [\[SOAP1.1\]](#), section 4, or in [\[SOAP1.2/1\]](#), section 5. Protocol server faults MUST be returned either using HTTP Status Codes as specified in [\[RFC2616\]](#), section 10, or using **SOAP faults** as specified either in [\[SOAP1.1\]](#), section 4.4, or in [\[SOAP1.2/1\]](#), 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 [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **WSDL**, as specified in [\[WSDL\]](#).

#### 2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	▪ <a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.microsoft.com/sharepoint/soap/directory/">http://schemas.microsoft.com/sharepoint/soap/directory/</a>	
s	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a> <a href="#">[XMLSCHEMA2]</a>
soap12	<a href="http://schemas.xmlsoap.org/wsdl/soap12/">http://schemas.xmlsoap.org/wsdl/soap12/</a>	<a href="#">[SOAP1.2/1]</a> <a href="#">[SOAP1.2/2]</a>
(none)	<a href="http://schemas.microsoft.com/sharepoint/soap/directory/">http://schemas.microsoft.com/sharepoint/soap/directory/</a>	
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>

#### 2.2.2 Messages

This specification does not define any common WSDL message definitions.

#### 2.2.3 Elements

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

Element	Description
<b>detail</b>	The details of a SOAP fault.

### 2.2.3.1 detail

The details of a SOAP fault.

```
<s:schema xmlns:s="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/">
  <s:element name="detail">
    <s:complexType>
      <s:sequence>
        <s:element name="errorstring" type="s:string" />
        <s:element name="errorcode" type="s:string" minOccurs="0" />
      </s:sequence>
    </s:complexType>
  </s:element>
</s:schema>
```

**errorstring:** A human-readable text message explaining the application-level fault.

**errorcode:** The hexadecimal representation of a 4-byte result code.

### 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
<b>Group</b>	The group (2) information.
<b>Groups</b>	A collection of elements that contains information about groups (2).
<b>User</b>	The user information.
<b>Users</b>	A collection of elements that contains information about users.
<b>InputUserType</b>	The user information used as input.
<b>InputUsersType</b>	A collection of elements that contains information about users used as input.
<b>RolesOutputMaskType</b>	A collection of role definitions. The <b>BasePermissions</b> attribute lists all <b>permissions</b> in an unsigned long integer.
<b>RolesOutputTextType</b>	A collection of role definitions. The <b>BasePermissions</b> attribute lists all permissions in text.

#### 2.2.4.1 Group

The **Group** complex type contains information about a group (2).

```
<s:complexType name="Group">
  <s:attribute name="ID" type="s:unsignedInt" use="required" />
```

```

<s:attribute name="Name" type="tns:String255Type" use="required" />
<s:attribute name="Description" type="tns:String512OrEmptyType" use="required" />
<s:attribute name="OwnerID" type="s:unsignedInt" use="required" />
<s:attribute name="OwnerIsUser" type="tns:TrueFalseType" use="required" />
</s:complexType>

```

**ID:** The identifier of the group (2).

**Name:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**Description:** The description of the group (2). The specified value MUST NOT contain more than 512 characters. An empty string value is allowed.

**OwnerID:** The identifier of the **owner** of a group (2).

**OwnerIsUser:** Indicates whether the owner of the group (2) is a user. "True" indicates that the owner of the group (2) is a user. "False" indicates that the owner of the group (2) is a group (2).

#### 2.2.4.2 Groups

The **Groups** complex type contains an array of **Group** elements. It MUST NOT contain more than 100 **Group** elements.

```

<s:complexType name="Groups">
  <s:sequence>
    <s:element minOccurs="0" maxOccurs="100" name="Group" type="tns:Group">
    </s:element>
  </s:sequence>
</s:complexType>

```

**Group:** Element specified by the **Group** complex type.

#### 2.2.4.3 User

The **User** complex type contains information about a user.

```

<s:complexType name="User">
  <s:attribute name="ID" type="s:unsignedInt" use="required" />
  <s:attribute name="Sid" type="s:string" use="required" />
  <s:attribute name="Name" type="tns:String255OrEmptyType" use="required" />
  <s:attribute name="LoginName" type="tns:String255OrEmptyType" use="required" />
  <s:attribute name="Email" type="tns:String255OrEmptyType" use="required" />
  <s:attribute name="Notes" type="tns:String255OrEmptyType" use="required" />
  <s:attribute name="IsSiteAdmin" type="tns:TrueFalseType" use="required" />
  <s:attribute name="IsDomainGroup" type="tns:TrueFalseType" use="required" />
  <s:attribute name="Flags" type="s:unsignedInt" use="required" />
</s:complexType>

```

**ID:** The identifier of the user.

**Sid:** The unique **security identifier (SID)** of the user.

**Name:** The **display name** of the user. The specified value MUST NOT contain more than 255 characters. An empty string is allowed.

**LoginName:** The **login name** of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

**Email:** The **e-mail address** of the user. The specified value MUST NOT contain more than 255 characters. An empty string is allowed.

**Notes:** A string containing additional information about the user. The specified value MUST NOT contain more than 1,023 characters. An empty string is allowed.

**IsSiteAdmin:** Indicates whether the user is an administrator of the site collection. "True" indicates that the user is an administrator. "False" indicates that the user is not an administrator.

**IsDomainGroup:** Indicates whether the user is a **domain group**. "True" indicates that the user is a domain group. "False" indicates that the user is a **domain user**.

**Flags:** A 4-byte integer bit mask determining the user's options as defined by the **UserInfo** flags; see [\[MS-WSSFO2\]](#) section 2.2.2.11.

#### 2.2.4.4 Users

The **Users** complex type contains an array of **User** elements.

```
<s:complexType name="Users">
  <s:sequence>
    <s:element minOccurs="0" maxOccurs="unbounded" name="User" type="tns:User" />
  </s:sequence>
</s:complexType>
```

**User:** Element specified by the **User** complex type.

#### 2.2.4.5 InputUserType

The **InputUserType** complex type contains information about a user.

```
<s:complexType name="InputUserType">
  <s:attribute name="LoginName" type="tns:String251Type" use="required" />
  <s:attribute name="Email" type="tns:String255OrEmptyType" />
  <s:attribute name="Name" type="tns:String255OrEmptyType" />
  <s:attribute name="Notes" type="tns:String1023OrEmptyType" />
</s:complexType>
```

**LoginName:** The login name of the user, which MUST contain less than 252 characters.

**Email:** The e-mail address of the user, which MUST contain less than 256 characters. The protocol server MUST ignore this value if the login name of the user already exists in the site (2).

**Name:** The display name of the user, which MUST contain less than 256 characters. The protocol server MUST ignore this value if the login name of the user already exists in the site (2).

**Notes:** A string containing additional information about the user. The specified value MUST NOT contain more than 1,023 characters. An empty string is allowed.

### 2.2.4.6 InputUsersType

The **InputUsersType** complex type contains an array of **InputUserType** elements. It MUST NOT contain more than 100 **InputUserType** elements.

```
<s:complexType name="InputUsersType">
  <s:sequence>
    <s:element minOccurs="0" maxOccurs="100" name="User" type="tns:InputUserType"/>
  </s:sequence>
</s:complexType>
```

**User:** Element specified by the **InputUserType** complex type.

### 2.2.4.7 RolesOutputMaskType

The **RolesOutputMaskType** complex type returns a collection of role definitions.

```
<s:complexType name="RolesOutputMaskType">
  <s:sequence>
    <s:element name="Role" minOccurs="0" maxOccurs="unbounded">
      <s:complexType>
        <s:attribute name="ID" type="s:positiveInteger" use="required" />
        <s:attribute name="Name" type="tns:String255Type" use="required" />
        <s:attribute name="Description" type="tns:String512OrEmptyType" use="required" />
        <s:attribute name="Hidden" type="tns:TrueFalseType" use="required" />
        <s:attribute name="Type" type="s:string" use="required" />
        <s:attribute name="BasePermissions" type="s:unsignedLong" use="required" />
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
```

**ID:** The identifier of the role definition.

**Name:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**Description:** The description of the role definition. The specified value MUST NOT contain more than 512 characters, and could be empty.

**Hidden:** Indicates whether the role definition is hidden in a user interface (UI). "True" indicates that the role definition is hidden in a UI. "False" indicates that the role definition is not hidden [<2>](#).

**Type:** The **role type** of the role definition. Role type is specified in [\[MS-DWSS\]](#) section 2.2.5.2.

**BasePermissions:** The set of permissions for a role definition. This is an unsigned long integer composed by combining the various permissions. The contents of this attribute are specified in [\[MS-WSSFO2\]](#) section 2.2.2.14.

### 2.2.4.8 RolesOutputTextType

The **RolesOutputTextType** complex type contains a collection of role definitions.

```
<s:complexType name="RolesOutputTextType">
  <s:sequence>
```



```

<s:element name="Roles">
  <s:complexType>
    <s:sequence>
      <s:element name="Role" minOccurs="0" maxOccurs="unbounded">
        <s:complexType>
          <s:attribute name="ID" type="s:positiveInteger" use="required" />
          <s:attribute name="Name" type="tns:String255OrEmptyType" use="required" />
          <s:attribute name="Description" type="tns:String255OrEmptyType" use="required"
        />
          <s:attribute name="Order" type="s:nonNegativeInteger" use="required" />
          <s:attribute name="Hidden" type="tns:TrueFalseType" use="required" />
          <s:attribute name="Type" type="s:string" use="required" />
          <s:attribute name="BasePermissions" type="s:string" use="required" />
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>

```

**ID:** The identifier of the role definition.

**Name:** The name of the role definition. The specified value **MUST NOT** contain more than 255 characters, and **MUST NOT** be empty.

**Description:** The description of the role definition. The specified value **MUST NOT** contain more than 512 characters, and could be empty.

**Order:** The order in which role definitions are displayed in a UI that displays role definitions for a site (2) or site collection. Role definitions with small order appear first. When multiple role definitions have the same order they **MUST** be ordered by **Type** in reverse alphabetical order.

**Hidden:** Indicates whether the role definition is hidden in a UI. "True" indicates that the role definition is hidden. "False" indicates that the role definition is not hidden<3>.

**Type:** The role type of the role definition. Role type is specified in [\[MS-DWSS\]](#) section 2.2.5.2.

**BasePermissions:** The set of permissions for a role definition. All permissions are listed in text and separated by a comma and a space ", ". The contents of this attribute are specified in [\[MS-WSSFO2\]](#) section 2.2.2.14.

## 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
<b>PrincipalType</b>	An enumeration indicating the type of the <b>security principal (2)</b> .
<b>String251Type</b>	A string type with length between 1 and 251 characters.
<b>String255Type</b>	A string type with length between 1 and 255 characters.
<b>String255OrEmptyType</b>	A string type with length between 0 and 255 characters.

Simple type	Description
<b>String512OrEmptyType</b>	A string type with length between 0 and 512 characters.
<b>String1023OrEmptyType</b>	A string type with length between 0 and 1023 characters.

### 2.2.5.1 PrincipalType

The **PrincipalType** simple type is an enumeration indicating the type of the principal, which can either be a **user** or group (2). It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="PrincipalType">
  <s:restriction base="s:string">
    <s:enumeration value="user"/>
    <s:enumeration value="group"/>
  </s:restriction>
</s:simpleType>
```

The following table describes the allowable values for **PrincipalType**.

Value	Description
User	The principal is a user.
Group	The principal is a group (2).

### 2.2.5.2 String251Type

The **String251Type** simple type is a string type with length between 1 and 251 characters. It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="String251Type">
  <s:restriction base="s:string">
    <s:minLength value="1" />
    <s:maxLength value="251" />
  </s:restriction>
</s:simpleType>
```

### 2.2.5.3 String255Type

The **String255Type** simple type is a string type with length between 1 and 255 characters. It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="String255Type">
  <s:restriction base="s:string">
    <s:minLength value="1" />
    <s:maxLength value="255" />
  </s:restriction>
</s:simpleType>
```

#### 2.2.5.4 String255OrEmptyType

The **String255OrEmptyType** simple type is a string type with length between 0 and 255 characters. It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="String255OrEmptyType">
  <s:restriction base="s:string">
    <s:minLength value="0" />
    <s:maxLength value="255" />
  </s:restriction>
</s:simpleType>
```

#### 2.2.5.5 String512OrEmptyType

The **String512OrEmptyType** simple type is a string type with length between 0 and 512 characters. It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="String512OrEmptyType">
  <s:restriction base="s:string">
    <s:minLength value="0" />
    <s:maxLength value="512" />
  </s:restriction>
</s:simpleType>
```

#### 2.2.5.6 String1023OrEmptyType

The **String1023OrEmptyType** simple type is a string type with length between 0 and 1023 characters. It is defined in namespace: <http://schemas.microsoft.com/sharepoint/soap/directory>.

```
<s:simpleType name="String1023OrEmptyType">
  <s:restriction base="s:string">
    <s:minLength value="0" />
    <s:maxLength value="1023" />
  </s:restriction>
</s:simpleType>
```

#### 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.

Except where specified, protocol clients SHOULD interpret HTTP status codes returned by the protocol server as specified in [RFC2616], section 10, "Status Code Definitions".

This protocol allows protocol servers to notify protocol clients of application-level faults using SOAP faults. This protocol allows protocol servers to provide additional details for SOAP faults by including either a **detail** element as specified in [SOAP1.1], section 4.4, or a **detail** element as specified in [SOAP1.2/1], section 5.4.5, that conforms to the **XML schema definition (XSD)** of the SOAP fault specified in section 2.2.2. Except where specified, these SOAP faults are not significant for interoperability, and protocol clients can interpret them in an implementation-specific manner.

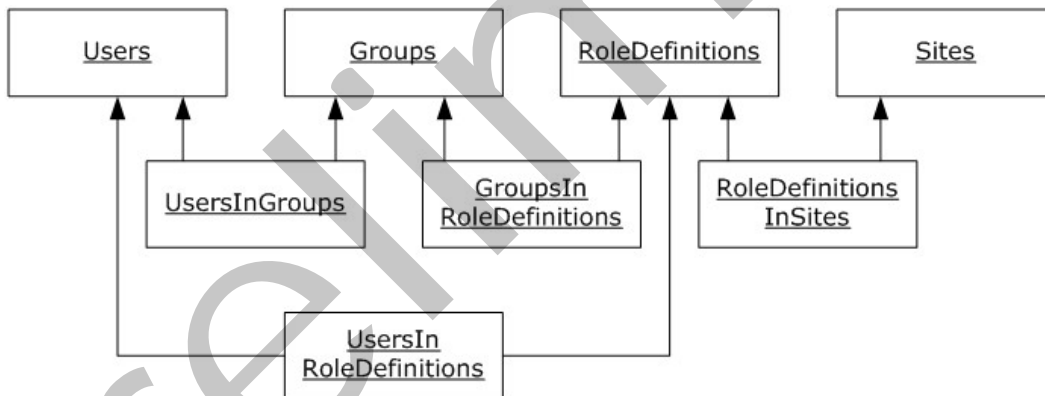
This protocol allows protocol servers to perform implementation-specific authorization checks and notify protocol clients of authorization faults as specified previously in this section.

#### 3.1 UserGroups Web Service 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 provides a high-level overview of the relationship between users, groups (2), and role definitions that are used in the operations of this protocol.



**Figure 2: Abstract data model**

The protocol server manages information about the following entities:

- Users with permissions to access the sites within the site collection managed by the protocol server. Each user has an identifier.
- Groups (2) of users. Each group has an identifier.

- Role definitions, which have a set of permissions associated with them. A role definition is the same as a **role** and refers to the same entity. Each role definition has an identifier.
- Sites for which the protocol server manages users and groups (2). A site collection consists of all the sites that are managed by the protocol server.

In addition, the protocol server manages information about the following relationships:

- Which users belong to a group (2).
- Which users are assigned to a role definition.
- Which groups are assigned to a role definition.
- Which role definitions are defined for a site (2).

### 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:

Operation	Description
<b>AddGroup</b>	Adds a group (2) to the current site collection.
<b>AddGroupToRole</b>	Adds the specified group (2) to the specified role definition.
<b>AddRole</b>	Adds a role definition to the current site (2).
<b>AddRoleDef</b>	Adds a role definition to the current site (2).
<b>AddUserCollectionToGroup</b>	Adds the collection of users to the specified group (2).
<b>AddUserCollectionToRole</b>	Adds the collection of users to the specified role definition.
<b>AddUserToGroup</b>	Adds the user to the specified group (2).
<b>AddUserToRole</b>	Adds the user to the specified role definition.
<b>GetAllUserCollectionFromWeb</b>	Returns information about the collection of users that are explicitly added to a role definition for the current site (2).
<b>GetCurrentUserInfo</b>	Returns information about the current user.
<b>GetGroupCollection</b>	Returns information about the specified collection of groups (2) in the current site collection.
<b>GetGroupCollectionFromRole</b>	Returns information about the collection of groups (2) assigned to the specified role definition.
<b>GetGroupCollectionFromSite</b>	Returns information about the collection of groups (2) for

<b>Operation</b>	<b>Description</b>
	the current site collection.
<b>GetGroupCollectionFromUser</b>	Returns information about the collection of groups (2) in which the specified user is a member.
<b>GetGroupCollectionFromWeb</b>	Returns information about the collection of groups (2) that are explicitly added to a role definition for the current site (2).
<b>GetGroupInfo</b>	Returns information about the specified group (2).
<b>GetRoleCollection</b>	Returns information about the specified collection of role definitions for the current site (2).
<b>GetRoleCollectionFromGroup</b>	Returns information about the collection of role definitions in which the specified group (2) is a member.
<b>GetRoleCollectionFromUser</b>	Returns information about the collection of role definitions in which the specified user is a member.
<b>GetRoleCollectionFromWeb</b>	Returns information about the collection of role definitions for the current site (2).
<b>GetRoleInfo</b>	Returns information about the specified role definition.
<b>GetRolesAndPermissionsForCurrentUser</b>	Returns permissions and role definitions for the current user.
<b>GetRolesAndPermissionsForSite</b>	Returns permissions and role definitions for the specified site (2).
<b>GetUserCollection</b>	Returns information about a collection of users based on the specified login names.
<b>GetUserCollectionFromGroup</b>	Returns information about the collection of users in the specified group (2).
<b>GetUserCollectionFromRole</b>	Returns information about the collection of users assigned to the specified role definition.
<b>GetUserCollectionFromSite</b>	Returns information about the collection of users for the current site collection.
<b>GetUserCollectionFromWeb</b>	Returns information about the collection of users that are explicitly added to a role definition for the current site (2).
<b>GetUserInfo</b>	Returns information about the specified user.
<b>GetUserLoginFromEmail</b>	Returns information about a collection of users based on the specified e-mail addresses.
<b>RemoveGroup</b>	Removes the specified group from the current site collection.
<b>RemoveGroupFromRole</b>	Removes the specified group (2) from the specified role definition.
<b>RemoveRole</b>	Removes the specified role definition from the current site (2).

Operation	Description
<b>RemoveUserCollectionFromGroup</b>	Removes the users with the specified login names from the group (2).
<b>RemoveUserCollectionFromRole</b>	Removes the users with the specified login names from the specified role definition.
<b>RemoveUserCollectionFromSite</b>	Removes the specified users from the current site collection.
<b>RemoveUserFromGroup</b>	Removes the specified user from the specified group (2).
<b>RemoveUserFromRole</b>	Removes the specified user from the specified role definition.
<b>RemoveUserFromSite</b>	Removes the specified user from the current site collection.
<b>RemoveUserFromWeb</b>	Removes the specified user from the current site (2).
<b>UpdateGroupInfo</b>	Updates information for the specified group (2).
<b>UpdateRoleDefInfo</b>	Updates information for the specified role definition.
<b>UpdateRoleInfo</b>	Updates information for the specified role definition.
<b>UpdateUserInfo</b>	Updates information for the specified user.

All operations supported by this protocol are executed in the context of a site (2), based on the URL used to execute the operation as specified in section 1.5. Unless otherwise specified, operations performed by using the URL for a particular site (2) will not affect either its parent site or the site collection.

### 3.1.4.1 AddGroup

This operation is used to add a group (2) with the specified information.

```
<wsdl:operation name="AddGroup">
  <wsdl:input message="AddGroupSoapIn" />
  <wsdl:output message="AddGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddGroupSoapIn** request message (section 3.1.4.1.1.1), and the protocol server responds with an **AddGroupSoapOut** response message (section 3.1.4.1.1.2), in the following sequence:

1. If the value specified in **ownerType** is "group" and no group (2) with the name specified in **ownerIdentifier** exists in the current site collection, the server MUST return a SOAP fault with error code 0x80131600.
2. If the value specified in **ownerType** is "group" and the group (2) with the name specified in **ownerIdentifier** exists on the current site collection, but the group (2) is a domain group, the server MUST return a SOAP fault with error code 0x80131600.

3. If the value specified in **ownerType** is "user" and the group name contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x8102004f.
4. If the value specified in **ownerType** is "user" and the user with the name specified in **ownerIdentifier** does not exist in the current site collection, the server MUST return a SOAP fault with error code 0x80131600.
5. If the user with the name specified in **defaultUserLoginName** does not exist in the current site collection, the server MUST return a SOAP fault with error code 0x80131600.
6. If a group (2) with the name specified in **groupName** already exists on the current site collection, the server MUST return a SOAP fault with error code 0x81020043.
7. Otherwise, the server MUST add the group (2) with an identifier and MUST respond with an **AddGroupSoapOut** response message.

### 3.1.4.1.1 Messages

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

Message	Description
<b>AddGroupSoapIn</b>	A request to initiate a <b>AddGroup</b> operation on the protocol server.
<b>AddGroupSoapOut</b>	A response from the protocol server at completion of the <b>AddGroup</b> operation.

#### 3.1.4.1.1.1 AddGroupSoapIn

This message is the request of the **AddGroup** operation (section [3.1.4.1](#)).

The **SOAP action** value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddGroup
```

The **SOAP body** contains an **AddGroup** element, as specified in section [3.1.4.1.2.1](#).

#### 3.1.4.1.1.2 AddGroupSoapOut

This message is the response of the **AddGroup** operation (section [3.1.4.1](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddGroup
```

The SOAP body contains an **AddGroupResponse** element, as specified in section [3.1.4.1.2.2](#).

### 3.1.4.1.2 Elements

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



Element	Description
<b>AddGroup</b>	Body of the <b>AddGroupSoapIn</b> message.
<b>AddGroupResponse</b>	Body of the <b>AddGroupSoapOut</b> message.

### 3.1.4.1.2.1 AddGroup

This element specifies details for the request to add a group (2) with the specified information.

```
<s:element name="AddGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
      <s:element name="ownerIdentifier" type="s:string" />
      <s:element name="ownerType" type="tns:PrincipalType" />
      <s:element name="defaultUserLoginName" type="tns:String251Type" />
      <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**ownerIdentifier:** The owner identifier of the group (2). It MUST NOT be empty. If the **ownerType** is "user", it MUST contain a valid login name, and it MUST NOT contain more than 251 characters. If the **ownerType** is "group", this field MUST be the name of a group (2), and it MUST NOT contain more than 255 characters.

**ownerType:** The principal type of the owner.

**defaultUserLoginName:** The login name of the user to be added to the group (2). This field MUST NOT contain more than 251 characters, MUST contain a valid login name, and MUST NOT be empty.

**description:** The description of the group (2). The specified value MUST NOT contain more than 512 characters, and could be empty.

### 3.1.4.1.2.2 AddGroupResponse

This element contains the response to the request to add a group (2) with the specified information.

```
<s:element name="AddGroupResponse">
  <s:complexType/>
</s:element>
```

### 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 AddGroupToRole

This operation is used to add a group (2) to a role definition.

```
<wsdl:operation name="AddGroupToRole">
  <wsdl:input message="AddGroupToRoleSoapIn" />
  <wsdl:output message="AddGroupToRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddGroupToRoleSoapIn** request message (section [3.1.4.2.1.1](#)), and the protocol server responds with an **AddGroupToRoleSoapOut** response message (section [3.1.4.2.1.2](#)) in the following sequence:

1. If the group name or the role name contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x80131600.
2. If the specified role definition does not exist on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
3. If the specified group (2) does not exist on the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
4. If the specified role definition is a "Guest" role type, as specified in [\[MS-DWSS\]](#) section 2.2.5.2, the server MUST return a SOAP fault with the error code 0x80131600.
5. Otherwise, the server MUST add the group (2) to the role definition and MUST respond with an **AddGroupToRoleSoapOut** response message.

### 3.1.4.2.1 Messages

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

Message	Description
<b>AddGroupToRoleSoapIn</b>	A request to initiate a <b>AddGroupToRole</b> operation on the protocol server.
<b>AddGroupToRoleSoapOut</b>	A response from the protocol server at completion of the <b>AddGroupToRole</b> operation.

#### 3.1.4.2.1.1 AddGroupToRoleSoapIn

This message is the request of the **AddGroupToRole** operation (section [3.1.4.2](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddGroupToRole
```

The SOAP body contains an **AddGroupToRole** element, as specified in section [3.1.4.2.2.1](#).

### 3.1.4.2.1.2 AddGroupToRoleSoapOut

This message is the response of the **AddGroupToRole** operation (section [3.1.4.2](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddGroupToRole
```

The SOAP body contains an **AddGroupToRoleResponse** element, as specified in section [3.1.4.2.2.2](#).

### 3.1.4.2.2 Elements

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

Element	Description
<b>AddGroupToRole</b>	Body of the <b>AddGroupToRoleSoapIn</b> message.
<b>AddGroupToRoleResponse</b>	Body of the <b>AddGroupToRoleSoapOut</b> message.

#### 3.1.4.2.2.1 AddGroupToRole

This element specifies details for the request to add a group (2) to a role definition.

```
<s:element name="AddGroupToRole">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="roleName" type="tns:String255Type" />  
      <s:element name="groupName" type="tns:String255Type" />  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.2.2.2 AddGroupToRoleResponse

This element contains the response to the request to add a group (2) to a role definition.

```
<s:element name="AddGroupToRoleResponse">  
  <s:complexType/>
```

</s:element>

### 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 AddRole

This operation is used to add a role definition with the specified information [<4>](#).

```
<wsdl:operation name="AddRole">
  <wsdl:input message="AddRoleSoapIn" />
  <wsdl:output message="AddRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddRoleSoapIn** request message (section [3.1.4.3.1.1](#)), and the protocol server responds with an **AddRoleSoapOut** response message (section [3.1.4.3.1.2](#)) in the following sequence:

1. If this operation is called on a subsite, the server MUST return a SOAP fault.
2. If the role definition contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x8102004f.
3. If a role definition with the specified name already exists on the current site (2), the server MUST return a SOAP fault with the error code 0x81020043.
4. Otherwise, the server MUST add the role definition with an identifier and MUST respond with an **AddRoleSoapOut** response message.

#### 3.1.4.3.1 Messages

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

Message	Description
<b>AddRoleSoapIn</b>	A request to initiate a <b>AddRole</b> operation on the protocol server.
<b>AddRoleSoapOut</b>	A response from the protocol server at completion of the <b>AddRole</b> operation.

### 3.1.4.3.1.1 AddRoleSoapIn

This message is the request of the **AddRole** operation (section [3.1.4.3](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddRole
```

The SOAP body contains an **AddRole** element, as specified in section [3.1.4.3.2.1](#).

### 3.1.4.3.1.2 AddRoleSoapOut

This message is the response of the **AddRole** operation (section [3.1.4.3](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddRole
```

The SOAP body contains an **AddRoleResponse** element, as specified in section [3.1.4.3.2.2](#).

### 3.1.4.3.2 Elements

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

Element	Description
<b>AddRole</b>	Body of the <b>AddRoleSoapIn</b> message.
<b>AddRoleResponse</b>	Body of the <b>AddRoleSoapOut</b> message.

### 3.1.4.3.2.1 AddRole

This element specifies details for the request to add a role definition with the specified information.

```
<s:element name="AddRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="permissionMask" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**description:** The description of the role definition. The specified value MUST NOT contain more than 512 characters. An empty string is allowed.

**permissionMask:** A 32-bit integer that specifies the permissions of the role definition. The type of this field is specified in [\[MS-WSSFO2\]](#) section 2.2.2.14.

### 3.1.4.3.2.2 AddRoleResponse

This element contains the response to the request to add a role definition with the specified information.

```
<s:element name="AddRoleResponse">
  <s:complexType/>
</s:element>
```

### 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 AddRoleDef

This operation [<5>](#) is used to add a role definition with the specified information [<6>](#).

```
<wsdl:operation name="AddRoleDef">
  <wsdl:input message="AddRoleDefSoapIn" />
  <wsdl:output message="AddRoleDefSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddRoleDefSoapIn** request message (section [3.1.4.4.1.1](#)), and the protocol server responds with an **AddRoleDefSoapOut** response message (section [3.1.4.4.1.2](#)) in the following sequence:

1. If this operation is called on a subsite, the server MUST return a SOAP fault.

2. If the role definition contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return the error code 0x8102004f.
3. If a role definition with the specified name already exists on the current site (2), the server MUST return a SOAP fault with the error code 0x81020043.
4. Otherwise, the server MUST add the role definition with an identifier and MUST respond with an **AddRoleDefSoapOut** response message.

#### 3.1.4.4.1 Messages

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

Message	Description
<b>AddRoleDefSoapIn</b>	A request to initiate a <b>AddRoleDef</b> operation on the protocol server.
<b>AddRoleDefSoapOut</b>	A response from the protocol server at completion of the <b>AddRoleDef</b> operation.

##### 3.1.4.4.1.1 AddRoleDefSoapIn

This message is the request of the **AddRoleDef** operation (section [3.1.4.4](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddRoleDef
```

The SOAP body contains an **AddRoleDef** element, as specified in section [3.1.4.4.2.1](#).

##### 3.1.4.4.1.2 AddRoleDefSoapOut

This message is the response of the **AddRoleDef** operation (section [3.1.4.4](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddRoleDef
```

The SOAP body contains an **AddRoleDefResponse** element, as specified in section [3.1.4.4.2.2](#).

#### 3.1.4.4.2 Elements

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

Element	Description
<b>AddRoleDef</b>	Body of the <b>AddRoleDefSoapIn</b> message.
<b>AddRoleDefResponse</b>	Body of the <b>AddRoleDefSoapOut</b> message.

#### 3.1.4.4.2.1 AddRoleDef

This element specifies details for the request to add a role definition with the specified information.

```
<s:element name="AddRoleDef">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="permissionMask" type="s:unsignedLong" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**description:** The description of the role definition. The specified value MUST NOT contain more than 512 characters. An empty string is allowed.

**permissionMask:** An unsigned long integer that represents the permissions of the role definition. The type of this field is specified in [\[MS-WSSFO2\]](#) section 2.2.2.13.

#### 3.1.4.4.2.2 AddRoleDefResponse

This element contains the response to the request to add a role definition with the specified information.

```
<s:element name="AddRoleDefResponse">
  <s:complexType/>
</s:element>
```

#### 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 AddUserCollectionToGroup

This operation is used to add a collection of users to a group (2).

```
<wsdl:operation name="AddUserCollectionToGroup">
  <wsdl:input message="AddUserCollectionToGroupSoapIn" />
  <wsdl:output message="AddUserCollectionToGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddUserCollectionToGroupSoapIn** request message (section [3.1.4.5.1.1](#)), and the protocol server responds with an **AddUserCollectionToGroupSoapOut** response message (section [3.1.4.5.1.2](#)) in the following sequence<7>:

1. If a group (2) with the specified name does not exist in the site collection, the server MUST return a SOAP fault with error code 0x80131600.
2. If any of the login names is empty, the server MUST return a SOAP fault with error code 0x80131600.
3. If one user within the collection of users that are specified by login names does not exist or the user's login name is not in a valid format, the server MUST do the following:
  - Add all users specified before the nonexisting user to the group (2).
  - Ignore any user specified after the nonexisting user.
  - Return a SOAP fault with error code 0x81020054.
4. Otherwise, the server MUST add all the users to the group (2) and MUST respond with an **AddUserCollectionToGroupSoapOut** response message.

#### 3.1.4.5.1 Messages

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

Message	Description
<b>AddUserCollectionToGroupSoapIn</b>	A request to initiate a <b>AddUserCollectionToGroup</b> operation on the protocol server.
<b>AddUserCollectionToGroupSoapOut</b>	A response from the protocol server at completion of the <b>AddUserCollectionToGroup</b> operation.

##### 3.1.4.5.1.1 AddUserCollectionToGroupSoapIn

This message is the request of the **AddUserCollectionToGroup** operation (section [3.1.4.5](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToGroup
```

The SOAP body contains an **AddUserCollectionToGroup** element, as specified in section [3.1.4.5.2.1](#).

### 3.1.4.5.1.2 AddUserCollectionToGroupSoapOut

This message is the response of the **AddUserCollectionToGroup** operation (section [3.1.4.5](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToGroup
```

The SOAP body contains an **AddUserCollectionToGroupResponse** element, as specified in section [3.1.4.5.2.2](#).

### 3.1.4.5.2 Elements

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

Element	Description
<b>AddUserCollectionToGroup</b>	Body of the <b>AddUserCollectionToGroupSoapIn</b> message.
<b>AddUserCollectionToGroupResponse</b>	Body of the <b>AddUserCollectionToGroupSoapOut</b> message.

#### 3.1.4.5.2.1 AddUserCollectionToGroup

This element specifies details for the request to add a collection of users to a group (2).

```
<s:element name="AddUserCollectionToGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
      <s:element name="usersInfoXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**usersInfoXml:** An **XML element** that specifies a collection of users.

#### 3.1.4.5.2.2 AddUserCollectionToGroupResponse

This element contains the response to the request to add users to a group (2).

```
<s:element name="AddUserCollectionToGroupResponse">
  <s:complexType/>
</s:element>
```

### 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 AddUserCollectionToRole

This operation is used to add a collection of users to a specified role definition.

```
<wsdl:operation name="AddUserCollectionToRole">
  <wsdl:input message="AddUserCollectionToRoleSoapIn" />
  <wsdl:output message="AddUserCollectionToRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddUserCollectionToRoleSoapIn** request message (section [3.1.4.6.1.1](#)), and the protocol server responds with an **AddUserCollectionToRoleSoapOut** response message (section [3.1.4.6.1.2](#)), in the following sequence<8>:

1. If a role definition with the specified name does not exist on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. If any of the login names is empty, the server MUST return a SOAP fault with the error code 0x80131600.
3. If one user within the collection of users that are specified by login names does not exist or its login name is not in a valid format, the server MUST do the following:
  - Add all users specified before the nonexisting user to the role definition.
  - Ignore any users specified after the nonexisting user.
  - Return a SOAP fault with the error code 0x81020054.
4. If the specified role definition is a "Guest" role type, as specified in [\[MS-DWSS\]](#) section 2.2.5.2, the server MUST return a SOAP fault with the error code 0x80131600.
5. Otherwise, the server MUST add all the users to the role definition and MUST respond with an **AddUserCollectionToRoleSoapOut** response message.

### 3.1.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

Message	Description
<b>AddUserCollectionToRoleSoapIn</b>	A request to initiate a <b>AddUserCollectionToRole</b> operation on the protocol server.
<b>AddUserCollectionToRoleSoapOut</b>	A response from the protocol server at completion of the <b>AddUserCollectionToRole</b> operation.

#### 3.1.4.6.1.1 AddUserCollectionToRoleSoapIn

This message is the request of the **AddUserCollectionToRole** operation (section [3.1.4.6](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToRole
```

The SOAP body contains an **AddUserCollectionToRole** element, as specified in section [3.1.4.6.2.1](#).

#### 3.1.4.6.1.2 AddUserCollectionToRoleSoapOut

This message is the response of the **AddUserCollectionToRole** operation (section [3.1.4.6](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToRole
```

The SOAP body contains an **AddUserCollectionToRoleResponse** element, as specified in section [3.1.4.6.2.2](#).

### 3.1.4.6.2 Elements

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

Element	Description
<b>AddUserCollectionToRole</b>	Body of the <b>AddUserCollectionToRoleSoapIn</b> message.
<b>AddUserCollectionToRoleResponse</b>	Body of the <b>AddUserCollectionToRoleSoapOut</b> message.

#### 3.1.4.6.2.1 AddUserCollectionToRole

This element specifies details for the request to add users to a role definition.

```
<s:element name="AddUserCollectionToRole">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="roleName" type="tns:String255Type" />  
      <s:element name="usersInfoXml">
```

```
<s:complexType>
  <s:sequence>
    <s:element name="Users" type="tns:InputUsersType" />
  </s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
```

**roleName:** The name of a role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**usersInfoXml:** An XML element that specifies a collection of users.

#### 3.1.4.6.2.2 AddUserCollectionToRoleResponse

This element contains the response to the request to add users to a role definition.

```
<s:element name="AddUserCollectionToRoleResponse">
  <s:complexType/>
</s:element>
```

#### 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 AddUserToGroup

This operation is used to add a user to a group (2).

```
<wsdl:operation name="AddUserToGroup">
  <wsdl:input message="AddUserToGroupSoapIn" />
  <wsdl:output message="AddUserToGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddUserToGroupSoapIn** request message (section [3.1.4.7.1.1](#)), and the protocol server responds with an **AddUserToGroupSoapOut** response message (section [3.1.4.7.1.2](#)), in the following sequence: <9>

1. If a group (2) with the specified name does not exist on the site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. If a user with the specified login name does not exist or its login name is not in a valid format, the server MUST return a SOAP fault with the error code 0x81020054.
3. Otherwise, the server MUST add the user to the group (2) and MUST respond with an **AddUserToGroupSoapOut** response message.

### 3.1.4.7.1 Messages

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

Message	Description
<b>AddUserToGroupSoapIn</b>	A request to initiate a <b>AddUserToGroup</b> operation on the protocol server.
<b>AddUserToGroupSoapOut</b>	A response from the protocol server at completion of the <b>AddUserToGroup</b> operation.

#### 3.1.4.7.1.1 AddUserToGroupSoapIn

This message is the request of the **AddUserToGroup** operation (section [3.1.4.7](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToGroup
```

The SOAP body contains an **AddUserToGroup** element, as specified in section [3.1.4.7.2.1](#).

#### 3.1.4.7.1.2 AddUserToGroupSoapOut

This message is the response of the **AddUserToGroup** operation (section [3.1.4.7](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToGroup
```

The SOAP body contains an **AddUserToGroupResponse** element, as specified in section [3.1.4.7.2.2](#).

### 3.1.4.7.2 Elements

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

Element	Description
<b>AddUserToGroup</b>	Body of the <b>AddUserToGroupSoapIn</b> message.
<b>AddUserToGroupResponse</b>	Body of the <b>AddUserToGroupSoapOut</b> message.

### 3.1.4.7.2.1 AddUserToGroup

This element specifies details for the request to add a user to a group (2).

```
<s:element name="AddUserToGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
      <s:element name="userName" type="tns:String255OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="userLoginName" type="tns:String251Type" />
      <s:element name="userEmail" type="tns:String255OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="userNotes" type="tns:String1023OrEmptyType" maxOccurs="1"
minOccurs="0"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userName:** The display name of the user, which MUST contain less than 256 characters. The protocol server MUST ignore this value if the user already exists in the current site collection. An empty string is allowed.

**userLoginName:** The login name of the user, which MUST NOT be an empty string and MUST NOT contain more than 251 characters.

**userEmail:** The e-mail address of the user, which MUST contain less than 256 characters. The service MUST ignore this value if the user already exists in the current site collection. An empty string is allowed.

**userNotes:** A string containing additional information about the user. The specified value MUST NOT contain more than 1,023 characters. An empty string is allowed.

### 3.1.4.7.2.2 AddUserToGroupResponse

This element contains the response to the request to add a user to a group (2).

```
<s:element name="AddUserToGroupResponse">
  <s:complexType/>
</s: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 Attribute Groups

None.

#### 3.1.4.8 AddUserToRole

This operation is used to add the user to a role definition.

```
<wsdl:operation name="AddUserToRole">
  <wsdl:input message="AddUserToRoleSoapIn" />
  <wsdl:output message="AddUserToRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends an **AddUserToRoleSoapIn** request message (section [3.1.4.8.1.1](#)), and the protocol server responds with an **AddUserToRoleSoapOut** response message (section [3.1.4.8.1.2](#)), in the following sequence:

1. If the specified role definition does not exist, the server MUST return a SOAP fault with the error code 0x80131600.
2. If the specified login name does not exist or it is not in a valid format, the server MUST return a SOAP fault with the error code 0x81020054. However, when **Active Directory account creation mode** is enabled, the server responds according to an implementation-specific algorithm [<10>](#).
3. If the specified role definition is a "Guest" role type, as specified in [\[MS-DWSS\]](#) section 2.2.5.2, the server MUST return a SOAP fault with the error code 0x80131600.
4. Otherwise, the server MUST add the user to the specified role definition and MUST respond with an **AddUserToRoleSoapOut** response message.

##### 3.1.4.8.1 Messages

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

Message	Description
<b>AddUserToRoleSoapIn</b>	A request to initiate a <b>AddUserToRole</b> operation on the protocol server.
<b>AddUserToRoleSoapOut</b>	A response from the protocol server at completion of the <b>AddUserToRole</b> operation.



### 3.1.4.8.1.1 AddUserToRoleSoapIn

This message is the request of the **AddUserToRole** operation (section [3.1.4.8](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToRole
```

The SOAP body contains an **AddUserToRole** element, as specified in section [3.1.4.8.2.1](#).

### 3.1.4.8.1.2 AddUserToRoleSoapOut

This message is the response of the **AddUserToRole** operation (section [3.1.4.8](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToRole
```

The SOAP body contains an **AddUserToRoleResponse** element, as specified in section [3.1.4.8.2.2](#).

### 3.1.4.8.2 Elements

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

Element	Description
<b>AddUserToRole</b>	Body of the <b>AddUserToRoleSoapIn</b> message.
<b>AddUserToRoleResponse</b>	Body of the <b>AddUserToRoleSoapOut</b> message.

#### 3.1.4.8.2.1 AddUserToRole

This element specifies details for the request to add the user to a role definition.

```
<s:element name="AddUserToRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="userName" type="tns:String255OrEmptyType" minOccurs="0"
        maxOccurs="1" />
      <s:element name="userLoginName" type="tns:String251Type" />
      <s:element name="userEmail" type="tns:String255OrEmptyType" minOccurs="0"
        maxOccurs="1" />
      <s:element name="userNotes" type="tns:String1023OrEmptyType" minOccurs="0"
        maxOccurs="1" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userName:** The display name of the user. The specified value MUST NOT contain more than 255 characters. An empty string is allowed.

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

**userEmail:** The e-mail address of the user. The specified value MUST NOT contain more than 255 characters. An empty string is allowed.

**userNotes:** A string containing additional information about the user. The specified value MUST NOT contain more than 1023 characters. An empty string is allowed.

### 3.1.4.8.2.2 AddUserToRoleResponse

This element contains the response to the request to add the user to a role definition.

```
<s:element name="AddUserToRoleResponse">
  <s:complexType/>
</s:element>
```

### 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 GetAllUserCollectionFromWeb

This operation is used to get information about all users that are explicitly added to a role definition in the current site.

```
<wsdl:operation name="GetAllUserCollectionFromWeb">
  <wsdl:input message="GetAllUserCollectionFromWebSoapIn" />
  <wsdl:output message="GetAllUserCollectionFromWebSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetAllUserCollectionFromWebSoapIn** request message (section [3.1.4.9.1.1](#)), and the protocol server responds with a **GetAllUserCollectionFromWebSoapOut** response message (section [3.1.4.9.1.2](#)), as follows:

- The server MUST respond with a **GetAllUserCollectionFromWebSoapOut** response message that contains information about all users in the current site.

### 3.1.4.9.1 Messages

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

Message	Description
<b>GetAllUserCollectionFromWebSoapIn</b>	A request to initiate a <b>GetAllUserCollectionFromWeb</b> operation on the protocol server.
<b>GetAllUserCollectionFromWebSoapOut</b>	A response from the protocol server at completion of the <b>GetAllUserCollectionFromWeb</b> operation.

#### 3.1.4.9.1.1 GetAllUserCollectionFromWebSoapIn

This message is the request of the **GetAllUserCollectionFromWeb** operation (section [3.1.4.9](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetAllUserCollectionFromWeb
```

The SOAP body contains a **GetAllUserCollectionFromWeb** element, as specified in section [3.1.4.9.2.1](#).

#### 3.1.4.9.1.2 GetAllUserCollectionFromWebSoapOut

This message is the response of the **GetAllUserCollectionFromWeb** operation (section [3.1.4.9](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetAllUserCollectionFromWeb
```

The SOAP body contains a **GetAllUserCollectionFromWebResponse** element, as specified in section [3.1.4.9.2.2](#).

### 3.1.4.9.2 Elements

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

Element	Description
<b>GetAllUserCollectionFromWeb</b>	Body of the <b>GetAllUserCollectionFromWebSoapIn</b> message.
<b>GetAllUserCollectionFromWebResponse</b>	Body of the <b>GetAllUserCollectionFromWebSoapOut</b> message.

#### 3.1.4.9.2.1 GetAllUserCollectionFromWeb

This element specifies details for the request to get the information about all users in the current site.

```
<s:element name="GetAllUserCollectionFromWeb">
  <s:complexType/>
</s:element>
```

#### 3.1.4.9.2.2 GetAllUserCollectionFromWebResponse

This element contains the response to the request to get the information about all users in the current site.

```
<s:element name="GetAllUserCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetAllUserCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetAllUserCollectionFromWeb">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetAllUserCollectionFromWebResult:** The information about users in the current site (2).

#### 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 GetCurrentUserInfo

This operation [<11>](#) is used to get information about the current user.

```
<wsdl:operation name="GetCurrentUserInfo">
  <wsdl:input message="GetCurrentUserInfoSoapIn" />
  <wsdl:output message="GetCurrentUserInfoSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetCurrentUserInfoSoapIn** request message (section [3.1.4.10.1.1](#)), and the protocol server responds with a **GetCurrentUserInfoSoapOut** response message (section [3.1.4.10.1.2](#)) that contains information about the current user.

#### 3.1.4.10.1 Messages

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

Message	Description
<b>GetCurrentUserInfoSoapIn</b>	A request to initiate a <b>GetCurrentUserInfo</b> operation on the protocol server.
<b>GetCurrentUserInfoSoapOut</b>	A response from the protocol server at completion of the <b>GetCurrentUserInfo</b> operation.

##### 3.1.4.10.1.1 GetCurrentUserInfoSoapIn

This message is the request of the **GetCurrentUserInfo** operation (section [3.1.4.10](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetCurrentUserInfo
```

The SOAP body contains a **GetCurrentUserInfo** element, as specified in section [3.1.4.10.2.1](#).

##### 3.1.4.10.1.2 GetCurrentUserInfoSoapOut

This message is the response of the **GetCurrentUserInfo** operation (section [3.1.4.10](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetCurrentUserInfo
```

The SOAP body contains a **GetCurrentUserInfoResponse** element, as specified in section [3.1.4.10.2.2](#).

### 3.1.4.10.2 Elements

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

Element	Description
<b>GetCurrentUserInfo</b>	Body of the <b>GetCurrentUserInfoSoapIn</b> message.
<b>GetCurrentUserInfoResponse</b>	Body of the <b>GetCurrentUserInfoSoapOut</b> message.

#### 3.1.4.10.2.1 GetCurrentUserInfo

This element specifies details for the request to get information about the current user.

```
<s:element name="GetCurrentUserInfo">  
  <s:complexType/>  
</s:element>
```

#### 3.1.4.10.2.2 GetCurrentUserInfoResponse

This element contains the response to the request to get information about the current user.

```
<s:element name="GetCurrentUserInfoResponse">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="GetCurrentUserInfoResult">  
        <s:complexType>  
          <s:sequence>  
            <s:element name="GetUserInfo">  
              <s:complexType>  
                <s:sequence>  
                  <s:element name="User" type="tns:User" />  
                </s:sequence>  
              </s:complexType>  
            </s:element>  
          </s:sequence>  
        </s:complexType>  
      </s:element>  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**GetCurrentUserInfoResult:** An XML element that specifies the information about the current user.

#### 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.

### 3.1.4.11 GetGroupCollection

This operation is used to return information about the specified collection of groups (2) in the current site collection.

```
<wsdl:operation name="GetGroupCollection">
  <wsdl:input message="GetGroupCollectionSoapIn" />
  <wsdl:output message="GetGroupCollectionSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetGroupCollectionSoapIn** request message (section [3.1.4.11.1.1](#)), and the protocol server responds with a **GetGroupCollectionSoapOut** response message (section [3.1.4.11.1.2](#)), as follows:

- The server MUST respond with a **GetGroupCollectionSoapOut** response message that contains information about the specified collection of groups (2).
- The server MUST ignore specified groups (2) that do not exist in the current site collection.

#### 3.1.4.11.1 Messages

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

Message	Description
<b>GetGroupCollectionSoapIn</b>	A request to initiate a <b>GetGroupCollection</b> operation on the protocol server.
<b>GetGroupCollectionSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupCollection</b> operation.

##### 3.1.4.11.1.1 GetGroupCollectionSoapIn

This message is the request of the **GetGroupCollection** operation (section [3.1.4.11](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollection
```

The SOAP body contains a **GetGroupCollection** element, as specified in section [3.1.4.11.2.1](#).

### 3.1.4.11.1.2 GetGroupCollectionSoapOut

This message is the response of the **GetGroupCollection** operation (section [3.1.4.11](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollection
```

The SOAP body contains a **GetGroupCollectionResponse** element, as specified in section [3.1.4.11.2.2](#).

### 3.1.4.11.2 Elements

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

Element	Description
<b>GetGroupCollection</b>	Body of the <b>GetGroupCollectionSoapIn</b> message.
<b>GetGroupCollectionResponse</b>	Body of the <b>GetGroupCollectionSoapOut</b> message.

#### 3.1.4.11.2.1 GetGroupCollection

This element specifies details for the request to return information about the specified collection of groups (2) in the current site collection.

```
<s:element name="GetGroupCollection">
  <s:complexType>
    <s:sequence>
      <s:element name="groupNamesXml" type="tns:GroupsInputType" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupNamesXml:** A **SoapXml.S SoapXmlElement** object that MUST NOT contain null or an empty string, and that MUST specify zero or more group (2) names according to the **GroupsInputType** complex type schema, as specified in section [3.1.4.11.3.1](#).

#### 3.1.4.11.2.2 GetGroupCollectionResponse

This element contains the response to the request to return information about the specified collection of groups (2) in the current site collection.

```
<s:element name="GetGroupCollectionResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetGroupCollectionResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetGroupCollection">
              <s:complexType>
                <s:sequence>
                  <s:element name="Groups" type="tns:Groups" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```



```

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

```

**GetGroupCollectionResult:** A **SoapXml.SoapXmlElement** object that MUST contain one **GetGroupCollection** XML element.

**GetGroupCollection:** A collection of XML elements that contains information about the specified collection of groups (2), which MUST follow the schema of the **Groups** complex type, as specified in section [2.2.4.2](#).

### 3.1.4.11.3 Complex Types

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

Complex type	Description
<b>GroupsInputType</b>	Contains a list of group (2) names.

#### 3.1.4.11.3.1 GroupsInputType

The **GroupsInputType** complex type contains a list of group (2) names.

```

<s:complexType name="GroupsInputType">
  <s:sequence>
    <s:element name="Groups">
      <s:complexType>
        <s:sequence>
          <s:element name="Group" minOccurs="0" maxOccurs="100">
            <s:complexType>
              <s:attribute name="GroupName" type="tns:String255Type" />
            </s:complexType>
          </s:element>
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>

```

**GroupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.11.4 Simple Types

None.

### 3.1.4.11.5 Attributes

None.

### 3.1.4.11.6 Groups

None.

### 3.1.4.11.7 Attribute Groups

None.

### 3.1.4.12 GetGroupCollectionFromRole

This operation is used to get information about the collection of groups (2) assigned to a role definition.

```
<wsdl:operation name="GetGroupCollectionFromRole">
  <wsdl:input message="GetGroupCollectionFromRoleSoapIn" />
  <wsdl:output message="GetGroupCollectionFromRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetGroupCollectionFromRoleSoapIn** request message (section [3.1.4.12.1.1](#)), and the protocol server responds with a **GetGroupCollectionFromRoleSoapOut** response message (section [3.1.4.12.1.2](#)) in the following sequence:

1. If the role definition with the specified name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetGroupCollectionFromRoleSoapOut** response message that contains either the collection of groups (2) assigned to the role definition or, if no groups are assigned to the role definition, the empty collection.

#### 3.1.4.12.1 Messages

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

Message	Description
<b>GetGroupCollectionFromRoleSoapIn</b>	A request to initiate a <b>GetGroupCollectionFromRole</b> operation on the protocol server.
<b>GetGroupCollectionFromRoleSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupCollectionFromRole</b> operation.

##### 3.1.4.12.1.1 GetGroupCollectionFromRoleSoapIn

This message is the request of the **GetGroupCollectionFromRole** operation (section [3.1.4.12](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromRole
```

The SOAP body contains a **GetGroupCollectionFromRole** element, as specified in section [3.1.4.12.2.1](#).

### 3.1.4.12.1.2 GetGroupCollectionFromRoleSoapOut

This message is the response of the **GetGroupCollectionFromRole** operation (section [3.1.4.12](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromRole
```

The SOAP body contains a **GetGroupCollectionFromRoleResponse** element, as specified in section [3.1.4.12.2.2](#).

### 3.1.4.12.2 Elements

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

Element	Description
<b>GetGroupCollectionFromRole</b>	Body of the <b>GetGroupCollectionFromRoleSoapIn</b> message.
<b>GetGroupCollectionFromRoleResponse</b>	Body of the <b>GetGroupCollectionFromRoleSoapOut</b> message.

#### 3.1.4.12.2.1 GetGroupCollectionFromRole

This element specifies details for the request to get information about the collection of groups (2) assigned to a role definition.

```
<s:element name="GetGroupCollectionFromRole">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="roleName" type="tns:String255Type"/>  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**roleName:** The name of the role definition, which MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.12.2.2 GetGroupCollectionFromRoleResponse

This element contains the response to the request to get information about the collection of groups (2) assigned to a role definition.

```
<s:element name="GetGroupCollectionFromRoleResponse">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="GetGroupCollectionFromRoleResult">  
        <s:complexType>  
          <s:sequence>
```

```

    <s:element name="GetGroupCollectionFromRole">
      <s:complexType>
        <s:sequence>
          <s:element name="Groups" type="tns:Groups" />
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>

```

**GetGroupCollectionFromRoleResult:** The list of groups (2) assigned to a role definition.

### 3.1.4.12.3 Complex Types

None.

### 3.1.4.12.4 Simple Types

None.

### 3.1.4.12.5 Attributes

None.

### 3.1.4.12.6 Groups

None.

### 3.1.4.12.7 Attribute Groups

None.

### 3.1.4.13 GetGroupCollectionFromSite

This operation is used to get information about the collection of groups (2) in the current site collection.

```

<wsdl:operation name="GetGroupCollectionFromSite">
  <wsdl:input message="GetGroupCollectionFromSiteSoapIn" />
  <wsdl:output message="GetGroupCollectionFromSiteSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetGroupCollectionFromSiteSoapIn** request message (section [3.1.4.13.1.1](#)), and the protocol server responds with a **GetGroupCollectionFromSiteSoapOut** response message (section [3.1.4.13.1.2](#)), as follows:

- The server MUST respond with a **GetGroupCollectionFromSiteSoapOut** response message that contains either the collection of groups (2) assigned to the current site collection, or, if no groups are assigned to the current site collection, the empty collection.

### 3.1.4.13.1 Messages

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

Message	Description
<b>GetGroupCollectionFromSiteSoapIn</b>	A request to initiate a <b>GetGroupCollectionFromSite</b> operation on the protocol server.
<b>GetGroupCollectionFromSiteSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupCollectionFromSite</b> operation.

#### 3.1.4.13.1.1 GetGroupCollectionFromSiteSoapIn

This message is the request of the **GetGroupCollectionFromSite** operation (section [3.1.4.13](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromSite
```

The SOAP body contains a **GetGroupCollectionFromSite** element, as specified in section [3.1.4.13.2.1](#).

#### 3.1.4.13.1.2 GetGroupCollectionFromSiteSoapOut

This message is the response of the **GetGroupCollectionFromSite** operation (section [3.1.4.13](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromSite
```

The SOAP body contains a **GetGroupCollectionFromSiteResponse** element, as specified in section [3.1.4.13.2.2](#).

### 3.1.4.13.2 Elements

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

Element	Description
<b>GetGroupCollectionFromSite</b>	Body of the <b>GetGroupCollectionFromSiteSoapIn</b> message.
<b>GetGroupCollectionFromSiteResponse</b>	Body of the <b>GetGroupCollectionFromSiteSoapOut</b> message.

#### 3.1.4.13.2.1 GetGroupCollectionFromSite

This element specifies details for the request to get information about the collection of groups (2) for the current site collection.

```
<s:element name="GetGroupCollectionFromSite">
```

```
<s:complexType/>
</s:element>
```

#### 3.1.4.13.2.2 GetGroupCollectionFromSiteResponse

This element contains the response to the request to get information about the collection of groups (2) for the current site collection.

```
<s:element name="GetGroupCollectionFromSiteResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetGroupCollectionFromSiteResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetGroupCollectionFromSite">
              <s:complexType>
                <s:sequence>
                  <s:element name="Groups" type="tns:Groups" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetGroupCollectionFromSiteResult:** A list of groups (2) for the current site collection.

#### 3.1.4.13.3 Complex Types

None.

#### 3.1.4.13.4 Simple Types

None.

#### 3.1.4.13.5 Attributes

None.

#### 3.1.4.13.6 Groups

None.

#### 3.1.4.13.7 Attribute Groups

None.

#### 3.1.4.14 GetGroupCollectionFromUser

This operation is used to get information about the collection of groups (2) in which the specified user is a member.

```

<wsdl:operation name="GetGroupCollectionFromUser">
  <wsdl:input message="GetGroupCollectionFromUserSoapIn" />
  <wsdl:output message="GetGroupCollectionFromUserSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetGroupCollectionFromUserSoapIn** request message (section [3.1.4.14.1.1](#)), and the protocol server responds with a **GetGroupCollectionFromUserSoapOut** response message (section [3.1.4.14.1.2](#)) in the following sequence:

1. If the user with the specified login name does not exist in the site collection, the server MUST return a SOAP fault with error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetGroupCollectionFromUserSoapOut** response message that contains either the collection of groups (2) in which the specified user is a member or, if the specified user is not a member of any groups, the empty collection.

### 3.1.4.14.1 Messages

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

Message	Description
<b>GetGroupCollectionFromUserSoapIn</b>	A request to initiate a <b>GetGroupCollectionFromUser</b> operation on the protocol server.
<b>GetGroupCollectionFromUserSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupCollectionFromUser</b> operation.

#### 3.1.4.14.1.1 GetGroupCollectionFromUserSoapIn

This message is the request of the **GetGroupCollectionFromUser** operation (section [3.1.4.14](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromUser
```

The SOAP body contains a **GetGroupCollectionFromUser** element, as specified in section [3.1.4.14.2.1](#).

#### 3.1.4.14.1.2 GetGroupCollectionFromUserSoapOut

This message is the response of the **GetGroupCollectionFromUser** operation (section [3.1.4.14](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromUser
```

The SOAP body contains a **GetGroupCollectionFromUserResponse** element, as specified in section [3.1.4.14.2.2](#).

### 3.1.4.14.2 Elements

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

Element	Description
<b>GetGroupCollectionFromUser</b>	Body of the <b>GetGroupCollectionFromUserSoapIn</b> message.
<b>GetGroupCollectionFromUserResponse</b>	Body of the <b>GetGroupCollectionFromUserSoapOut</b> message.

#### 3.1.4.14.2.1 GetGroupCollectionFromUser

This element specifies details for the request to get information about the collection of groups (2) in which a user is a member.

```
<s:element name="GetGroupCollectionFromUser">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginName:** The login name of the user, which MUST NOT contain more than 251 characters, and MUST NOT be empty.

#### 3.1.4.14.2.2 GetGroupCollectionFromUserResponse

This element contains the response to the request to get information about the collection of groups (2) in which the specified user is a member.

```
<s:element name="GetGroupCollectionFromUserResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetGroupCollectionFromUserResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetGroupCollectionFromUser">
              <s:complexType>
                <s:sequence>
                  <s:element name="Groups" type="tns:Groups" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetGroupCollectionFromUserResult:** A list of groups (2) in which the specified user is a member.



### 3.1.4.14.3 Complex Types

None.

### 3.1.4.14.4 Simple Types

None.

### 3.1.4.14.5 Attributes

None.

### 3.1.4.14.6 Groups

None.

### 3.1.4.14.7 Attribute Groups

None.

### 3.1.4.15 GetGroupCollectionFromWeb

This operation is used to get information about the collection of groups (2) that are explicitly added to a role definition for the current site (2).

```
<wsdl:operation name="GetGroupCollectionFromWeb">
  <wsdl:input message="GetGroupCollectionFromWebSoapIn" />
  <wsdl:output message="GetGroupCollectionFromWebSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetGroupCollectionFromWebSoapIn** request message (section [3.1.4.15.1.1](#)), and the protocol server responds with a **GetGroupCollectionFromWebSoapOut** response message (section [3.1.4.15.1.2](#)), as follows:

- The server MUST respond with a **GetGroupCollectionFromWebSoapOut** response message that contains either the collection of groups (2) that are explicitly added to a role definition for the current site (2), or, if no groups (2) are assigned to the current site (2), the empty collection.
- The server MUST NOT return groups (2) that do not have permissions for a site (2) [<12>](#).

#### 3.1.4.15.1 Messages

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

Message	Description
<b>GetGroupCollectionFromWebSoapIn</b>	A request to initiate a <b>GetGroupCollectionFromWeb</b> operation on the protocol server.
<b>GetGroupCollectionFromWebSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupCollectionFromWeb</b> operation.

### 3.1.4.15.1.1 GetGroupCollectionFromWebSoapIn

This message is the request of the **GetGroupCollectionFromWeb** operation (section [3.1.4.15](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromWeb
```

The SOAP body contains a **GetGroupCollectionFromWeb** element, as specified in section [3.1.4.15.2.1](#).

### 3.1.4.15.1.2 GetGroupCollectionFromWebSoapOut

This message is the response of the **GetGroupCollectionFromWeb** operation (section [3.1.4.15](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromWeb
```

The SOAP body contains a **GetGroupCollectionFromWebResponse** element, as specified in section [3.1.4.15.2.2](#).

### 3.1.4.15.2 Elements

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

Element	Description
<b>GetGroupCollectionFromWeb</b>	Body of the <b>GetGroupCollectionFromWebSoapIn</b> message.
<b>GetGroupCollectionFromWebResponse</b>	Body of the <b>GetGroupCollectionFromWebSoapOut</b> message.

#### 3.1.4.15.2.1 GetGroupCollectionFromWeb

This element specifies details for the request to get information about the collection of groups (2) that are explicitly added to a role definition for the current site (2).

```
<s:element name="GetGroupCollectionFromWeb">  
  <s:complexType/>  
</s:element>
```

#### 3.1.4.15.2.2 GetGroupCollectionFromWebResponse

This element contains the response to the request to get information about the collection of groups (2) that are explicitly added to a role definition for the current site (2).

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

```

<s:element name="GetGroupCollectionFromWebResult">
  <s:complexType>
    <s:sequence>
      <s:element name="GetGroupCollectionFromWeb">
        <s:complexType>
          <s:sequence>
            <s:element name="Groups" type="tns:Groups" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

**GetGroupCollectionFromWebResult:** The list of groups (2) for the current site (2).

### 3.1.4.15.3 Complex Types

None.

### 3.1.4.15.4 Simple Types

None.

### 3.1.4.15.5 Attributes

None.

### 3.1.4.15.6 Groups

None.

### 3.1.4.15.7 Attribute Groups

None.

### 3.1.4.16 GetGroupInfo

This operation is used to get information about a group (2).

```

<wsdl:operation name="GetGroupInfo">
  <wsdl:input message="GetGroupInfoSoapIn" />
  <wsdl:output message="GetGroupInfoSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetGroupInfoSoapIn** request message (section [3.1.4.16.1.1](#)), and the protocol server responds with a **GetGroupInfoSoapOut** response message (section [3.1.4.16.1.2](#)) in the following sequence:

1. If the specified group (2) does not exist in the current site collection, the server MUST return a SOAP fault with error code 0x80131600.

- Otherwise, the server MUST respond with a **GetGroupInfoSoapOut** response message that contains information about the group (2).

### 3.1.4.16.1 Messages

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

Message	Description
<b>GetGroupInfoSoapIn</b>	A request to initiate a <b>GetGroupInfo</b> operation on the protocol server.
<b>GetGroupInfoSoapOut</b>	A response from the protocol server at completion of the <b>GetGroupInfo</b> operation.

#### 3.1.4.16.1.1 GetGroupInfoSoapIn

This message is the request of the **GetGroupInfo** operation (section [3.1.4.16](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupInfo
```

The SOAP body contains a **GetGroupInfo** element, as specified in section [3.1.4.16.2.1](#).

#### 3.1.4.16.1.2 GetGroupInfoSoapOut

This message is the response of the **GetGroupInfo** operation (section [3.1.4.16](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupInfo
```

The SOAP body contains a **GetGroupInfoResponse** element, as specified in section [3.1.4.16.2.2](#).

### 3.1.4.16.2 Elements

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

Element	Description
<b>GetGroupInfo</b>	Body of the <b>GetGroupInfoSoapIn</b> message.
<b>GetGroupInfoResponse</b>	Body of the <b>GetGroupInfoSoapOut</b> message.

#### 3.1.4.16.2.1 GetGroupInfo

This element specifies details for the request to get information about a group (2).

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

```
    <s:element name="groupName" type="tns:String255Type" />
  </s:sequence>
</s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

### 3.1.4.16.2.2 GetGroupInfoResponse

This element contains the response to the request to get information about a group (2).

```
<s:element name="GetGroupInfoResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetGroupInfoResult" >
        <s:complexType>
          <s:sequence>
            <s:element name="GetGroupInfo" >
              <s:complexType>
                <s:sequence>
                  <s:element name="Group" type="tns:Group" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetGroupInfoResult:** An XML element that contains information about the group (2) with the specified name.

### 3.1.4.16.3 Complex Types

None.

### 3.1.4.16.4 Simple Types

None.

### 3.1.4.16.5 Attributes

None.

### 3.1.4.16.6 Groups

None.

### 3.1.4.16.7 Attribute Groups

None.

### 3.1.4.17 GetRoleCollection

This operation is used to return information about the specified collection of role definitions for the current site (2).

```
<wsdl:operation name="GetRoleCollection">
  <wsdl:input message="GetRoleCollectionSoapIn" />
  <wsdl:output message="GetRoleCollectionSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetRoleCollectionSoapIn** request message (section [3.1.4.17.1.1](#)), and the protocol server responds with a **GetRoleCollectionSoapOut** response message (section [3.1.4.17.1.2](#)), as follows:

- The server MUST respond with a **GetRoleCollectionSoapOut** response message that contains information about the collection of role definitions.
- The server MUST NOT return information about role definitions that are not assigned to the current site (2).

#### 3.1.4.17.1 Messages

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

Message	Description
<b>GetRoleCollectionSoapIn</b>	A request to initiate a <b>GetRoleCollection</b> operation on the protocol server.
<b>GetRoleCollectionSoapOut</b>	A response from the protocol server at completion of the <b>GetRoleCollection</b> operation.

##### 3.1.4.17.1.1 GetRoleCollectionSoapIn

This message is the request of the **GetRoleCollection** operation (section [3.1.4.17](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollection
```

The SOAP body contains a **GetRoleCollection** element, as specified in section [3.1.4.17.2.1](#).

##### 3.1.4.17.1.2 GetRoleCollectionSoapOut

This message is the response of the **GetRoleCollection** operation (section [3.1.4.17](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollection
```

The SOAP body contains a **GetRoleCollectionResponse** element, as specified in section [3.1.4.17.2.2](#).

### 3.1.4.17.2 Elements

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

Element	Description
<b>GetRoleCollection</b>	Body of the <b>GetRoleCollectionSoapIn</b> message.
<b>GetRoleCollectionResponse</b>	Body of the <b>GetRoleCollectionSoapOut</b> message.

#### 3.1.4.17.2.1 GetRoleCollection

This element specifies details for the request to return information about the specified collection of role definitions for the current site (2).

```
<s:element name="GetRoleCollection">
  <s:complexType>
    <s:sequence>
      <s:element name="roleNamesXml" type="tns:RolesInputType" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleNamesXml:** A **SoapXml.SoapXmlElement** object that specifies zero or more role definition names according to the **RolesInputType** schema as specified in section [3.1.4.17.3.1](#).

#### 3.1.4.17.2.2 GetRoleCollectionResponse

This element contains the response to the request to return information about the specified collection of role definitions for the current site (2).

```
<s:element name="GetRoleCollectionResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollection" type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetRoleCollectionResult:** A **SoapXml.SoapXmlElement** object that MUST contain one **GetRoleCollection** XML element.

**GetRoleCollection:** An XML element that contains a collection of role definitions that MUST follow the schema of the **RolesOutputTextType** complex type, as specified in section [2.2.4.8](#).

### 3.1.4.17.3 Complex Types

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

Complex Type	Description
<b>RolesInputType</b>	Collection of roles input to this operation.

#### 3.1.4.17.3.1 RolesInputType

The **RolesInputType** complex type contains a collection of roles as input to this operation.

```
<s:complexType name="RolesInputType">
  <s:sequence>
    <s:element name="Roles" minOccurs="1" maxOccurs="1">
      <s:complexType>
        <s:sequence>
          <s:element name="Role" minOccurs="0" maxOccurs="100">
            <s:complexType>
              <s:attribute name="RoleName" type="tns:String255Type" />
            </s:complexType>
          </s:element>
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
```

**RoleName:** The name of the role definition. The specified value **MUST** contain less than 256 characters, and **MUST NOT** be empty.

#### 3.1.4.17.4 Simple Types

None.

#### 3.1.4.17.5 Attributes

None.

#### 3.1.4.17.6 Groups

None.

#### 3.1.4.17.7 Attribute Groups

None.

### 3.1.4.18 GetRoleCollectionFromGroup

This operation is used to return the collection of role definitions based on a specified group (2) name.

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



```

    <wsdl:input message="GetRoleCollectionFromGroupSoapIn" />
    <wsdl:output message="GetRoleCollectionFromGroupSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetRoleCollectionFromGroupSoapIn** request message (section [3.1.4.18.1.1](#)), and the protocol server responds with a **GetRoleCollectionFromGroupSoapOut** response message (section [3.1.4.18.1.2](#)) in the following sequence:

1. If the specified group (2) does not exist or has not been assigned to any role definition on the site (2), the server MUST return a SOAP fault with error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetRoleCollectionFromGroupSoapOut** response message that contains the collection of all role definitions to which the specified group (2) has been assigned on the site (2).

### 3.1.4.18.1 Messages

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

Message	Description
<b>GetRoleCollectionFromGroupSoapIn</b>	A request to initiate a <b>GetRoleCollectionFromGroup</b> operation on the protocol server.
<b>GetRoleCollectionFromGroupSoapOut</b>	A response from the protocol server at completion of the <b>GetRoleCollectionFromGroup</b> operation.

#### 3.1.4.18.1.1 GetRoleCollectionFromGroupSoapIn

This message is the request of the **GetRoleCollectionFromGroup** operation (section [3.1.4.18](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromGroup
```

The SOAP body contains a **GetRoleCollectionFromGroup** element, as specified in section [3.1.4.18.2.1](#).

#### 3.1.4.18.1.2 GetRoleCollectionFromGroupSoapOut

This message is the response of the **GetRoleCollectionFromGroup** operation (section [3.1.4.18](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromGroup
```

The SOAP body contains a **GetRoleCollectionFromGroupResponse** element, as specified in section [3.1.4.18.2.2](#).

### 3.1.4.18.2 Elements

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

Element	Description
<b>GetRoleCollectionFromGroup</b>	Body of the <b>GetRoleCollectionFromGroupSoapIn</b> message.
<b>GetRoleCollectionFromGroupResponse</b>	Body of the <b>GetRoleCollectionFromGroupSoapOut</b> message.

#### 3.1.4.18.2.1 GetRoleCollectionFromGroup

This element specifies details for the request to return the collection of role definitions based on a specified group (2) name.

```
<s:element name="GetRoleCollectionFromGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of a group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.18.2.2 GetRoleCollectionFromGroupResponse

This element contains the response to the request to return the collection of role definitions based on the specified group (2) name.

```
<s:element name="GetRoleCollectionFromGroupResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionFromGroupResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollectionFromGroup" type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetRoleCollectionFromGroupResult:** A **SoapXml.SoapXmlElement** object that MUST contain one **GetRoleCollectionFromGroup** XML element.

**GetRoleCollectionFromGroup:** An XML element that contains a collection of role definitions that MUST follow the schema of the **RolesOutputTextType** complex type, as specified in section [2.2.4.8](#).

### 3.1.4.18.3 Complex Types

None.

### 3.1.4.18.4 Simple Types

None.

### 3.1.4.18.5 Attributes

None.

### 3.1.4.18.6 Groups

None.

### 3.1.4.18.7 Attribute Groups

None.

### 3.1.4.19 GetRoleCollectionFromUser

This operation is used to return a collection of role definitions based on the specified login name.

```
<wsdl:operation name="GetRoleCollectionFromUser">
  <wsdl:input message="GetRoleCollectionFromUserSoapIn" />
  <wsdl:output message="GetRoleCollectionFromUserSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetRoleCollectionFromUserSoapIn** request message (section [3.1.4.19.1.1](#)), and the protocol server responds with a **GetRoleCollectionFromUserSoapOut** response message (section [3.1.4.19.1.2](#)) in the following sequence:

1. If a user with the specified login name does not exist on the site collection or if a user is not directly assigned to a role definition in the site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetRoleCollectionFromUserSoapOut** response message that contains the collection of role definitions that the user is directly assigned to on the site (2).

#### 3.1.4.19.1 Messages

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

Message	Description
<b>GetRoleCollectionFromUserSoapIn</b>	A request to initiate a <b>GetRoleCollectionFromUser</b> operation on the protocol server.
<b>GetRoleCollectionFromUserSoapOut</b>	A response from the protocol server at completion of the <b>GetRoleCollectionFromUser</b> operation.

### 3.1.4.19.1.1 GetRoleCollectionFromUserSoapIn

This message is the request of the **GetRoleCollectionFromUser** operation (section [3.1.4.19](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromUser
```

The SOAP body contains a **GetRoleCollectionFromUser** element, as specified in section [3.1.4.19.2.1](#).

### 3.1.4.19.1.2 GetRoleCollectionFromUserSoapOut

This message is the response of the **GetRoleCollectionFromUser** operation (section [3.1.4.19](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromUser
```

The SOAP body contains a **GetRoleCollectionFromUserResponse** element, as specified in section [3.1.4.19.2.2](#).

### 3.1.4.19.2 Elements

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

Element	Description
<b>GetRoleCollectionFromUser</b>	Body of the <b>GetRoleCollectionFromUserSoapIn</b> message.
<b>GetRoleCollectionFromUserResponse</b>	Body of the <b>GetRoleCollectionFromUserSoapOut</b> message.

#### 3.1.4.19.2.1 GetRoleCollectionFromUser

This element specifies details for the request to return the collection of role definitions based on a specified login name.

```
<s:element name="GetRoleCollectionFromUser">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginName:** The login name of the specified user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

#### 3.1.4.19.2.2 GetRoleCollectionFromUserResponse

This element contains the response to the request to return the collection of role definitions based on a specified login name.

```

<s:element name="GetRoleCollectionFromUserResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionFromUserResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollectionFromUser" type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

**GetRoleCollectionFromUserResult:** A **SoapXml.SoapXmlElement** object that MUST contain one **GetRoleCollectionFromUser** XML element.

**GetRoleCollectionFromUser:** An XML element that contains a collection of role definitions that MUST follow the schema of the **RolesOutputTextType** complex type as specified in section [2.2.4.8](#).

### 3.1.4.19.3 Complex Types

None.

### 3.1.4.19.4 Simple Types

None.

### 3.1.4.19.5 Attributes

None.

### 3.1.4.19.6 Groups

None.

### 3.1.4.19.7 Attribute Groups

None.

### 3.1.4.20 GetRoleCollectionFromWeb

This operation is used to return the collection of role definitions for the current site (2).

```

<wsdl:operation name="GetRoleCollectionFromWeb">
  <wsdl:input message="GetRoleCollectionFromWebSoapIn" />
  <wsdl:output message="GetRoleCollectionFromWebSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetRoleCollectionFromWebSoapIn** request message (section [3.1.4.20.1.1](#)), and the protocol server responds with a **GetRoleCollectionFromWebSoapOut** response message (section [3.1.4.20.1.2](#)). The server MUST respond with a **GetRoleCollectionFromWebSoapOut** response message that contains the collection of role definitions.

### 3.1.4.20.1 Messages

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

Message	Description
<b>GetRoleCollectionFromWebSoapIn</b>	A request to initiate a <b>GetRoleCollectionFromWeb</b> operation on the protocol server.
<b>GetRoleCollectionFromWebSoapOut</b>	A response from the protocol server at completion of the <b>GetRoleCollectionFromWeb</b> operation.

#### 3.1.4.20.1.1 GetRoleCollectionFromWebSoapIn

This message is the request of the **GetRoleCollectionFromWeb** operation (section [3.1.4.20](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromWeb
```

The SOAP body contains a **GetRoleCollectionFromWeb** element, as specified in section [3.1.4.20.2.1](#).

#### 3.1.4.20.1.2 GetRoleCollectionFromWebSoapOut

This message is the response of the **GetRoleCollectionFromWeb** operation (section [3.1.4.20](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromWeb
```

The SOAP body contains a **GetRoleCollectionFromWebResponse** element, as specified in section [3.1.4.20.2.2](#).

### 3.1.4.20.2 Elements

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

Element	Description
<b>GetRoleCollectionFromWeb</b>	Body of the <b>GetRoleCollectionFromWebSoapIn</b> message.
<b>GetRoleCollectionFromWebResponse</b>	Body of the <b>GetRoleCollectionFromWebSoapOut</b> message.

#### 3.1.4.20.2.1 GetRoleCollectionFromWeb

This element specifies details for the request to return the collection of role definitions from the current site (2).

```
<s:element name="GetRoleCollectionFromWeb">  
  <s:complexType/>  
</s:element>
```

```
</s:element>
```

#### 3.1.4.20.2.2 GetRoleCollectionFromWebResponse

This element contains the response to the request to return the collection of role definitions from the current site (2).

```
<s:element name="GetRoleCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollectionFromWeb" type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetRoleCollectionFromWebResult:** A **SoapXml.S SoapXmlElement** object that MUST contain one **GetRoleCollectionFromWeb** XML element.

**GetRoleCollectionFromWeb:** An XML element that contains a collection of role definitions. The role definition MUST follow the schema of the **RolesOutputTextType** complex type, as specified in section [2.2.4.8](#).

#### 3.1.4.20.3 Complex Types

None.

#### 3.1.4.20.4 Simple Types

None.

#### 3.1.4.20.5 Attributes

None.

#### 3.1.4.20.6 Groups

None.

#### 3.1.4.20.7 Attribute Groups

None.

#### 3.1.4.21 GetRoleInfo

This operation is used to return information about a role definition.

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

```

    <wsdl:input message="GetRoleInfoSoapIn" />
    <wsdl:output message="GetRoleInfoSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetRoleInfoSoapIn** request message (section [3.1.4.21.1.1](#)), and the protocol server responds with a **GetRoleInfoSoapOut** response message (section [3.1.4.21.1.2](#)) in the following sequence:

1. If **roleName** specifies a role definition that does not exist on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetRoleInfoSoapOut** response message that contains information about the role definition.

### 3.1.4.21.1 Messages

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

Message	Description
<b>GetRoleInfoSoapIn</b>	A request to initiate a <b>GetRoleInfo</b> operation on the protocol server.
<b>GetRoleInfoSoapOut</b>	A response from the protocol server at completion of the <b>GetRoleInfo</b> operation.

#### 3.1.4.21.1.1 GetRoleInfoSoapIn

This message is the request of the **GetRoleInfo** operation (section [3.1.4.21](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleInfo
```

The SOAP body contains a **GetRoleInfo** element, as specified in section [3.1.4.21.2.1](#).

#### 3.1.4.21.1.2 GetRoleInfoSoapOut

This message is the response of the **GetRoleInfo** operation (section [3.1.4.21](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleInfo
```

The SOAP body contains a **GetRoleInfoResponse** element, as specified in section [3.1.4.21.2.2](#).

### 3.1.4.21.2 Elements

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



Element	Description
<b>GetRoleInfo</b>	Body of the <b>GetRoleInfoSoapIn</b> message.
<b>GetRoleInfoResponse</b>	Body of the <b>GetRoleInfoSoapOut</b> message.

### 3.1.4.21.2.1 GetRoleInfo

This element specifies details for the request to return information about a role definition.

```
<s:element name="GetRoleInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

### 3.1.4.21.2.2 GetRoleInfoResponse

This element contains the response to the request to return information about a role definition.

```
<s:element name="GetRoleInfoResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleInfoResult" type="tns:RoleOutputType" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetRoleInfoResult:** A **SoapXml.SoapXmlElement** object that MUST contain one role definition according to the schema of the **RoleOutputType** complex type as specified in section [3.1.4.21.3.1](#).

### 3.1.4.21.3 Complex Types

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

Complex Type	Description
<b>RoleOutputType</b>	Role definition information.

#### 3.1.4.21.3.1 RoleOutputType

The **RoleOutputType** complex type contains information about a role definition.

```
<s:complexType name="RoleOutputType">
  <s:sequence>
    <s:element name="GetRoleInfo" minOccurs="1" maxOccurs="1">
      <s:complexType>
```

```

<s:sequence>
  <s:element name="Role" minOccurs="1" maxOccurs="1">
    <s:complexType>
      <s:attribute name="ID" type="s:positiveInteger" use="required" />
      <s:attribute name="Name" type="s:string" use="required" />
      <s:attribute name="Description" type="s:string" use="required" />
      <s:attribute name="Type" type="s:nonNegativeInteger" use="required" />
    </s:complexType>
  </s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>

```

**ID:** The identifier of the role definition.

**Name:** The name of the role definition.

**Description:** The description for the role definition.

**Type:** An integer representing the role type of the role definition as specified in [\[MS-DWSS\]](#) section 2.2.5.2. The mapping between **Type** and the role type specified in [\[MS-DWSS\]](#) section 2.2.5.2 MUST be as follows:

Role type	Type	Notes
<b>None</b>	0	
<b>Guest</b>	1	The <b>Guest</b> role type is used in this protocol, but is not specified in <a href="#">[MS-DWSS]</a> section 2.2.5.2.
<b>Reader</b>	2	
<b>Contributor</b>	3	
<b>WebDesigner</b>	4	
<b>Administrator</b>	5	

#### 3.1.4.21.4 Simple Types

None.

#### 3.1.4.21.5 Attributes

None.

#### 3.1.4.21.6 Groups

None.

#### 3.1.4.21.7 Attribute Groups

None.

### 3.1.4.22 GetRolesAndPermissionsForCurrentUser

This operation [<13>](#) is used to return the permissions and role definitions for the current user.

```
<wsdl:operation name="GetRolesAndPermissionsForCurrentUser">
  <wsdl:input message="GetRolesAndPermissionsForCurrentUserSoapIn" />
  <wsdl:output message="GetRolesAndPermissionsForCurrentUserSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetRolesAndPermissionsForCurrentUserSoapIn** request message (section [3.1.4.22.1.1](#)), and the protocol server responds with a **GetRolesAndPermissionsForCurrentUserSoapOut** response message (section [3.1.4.22.1.2](#)), as follows:

- The server MUST respond with a **GetRolesAndPermissionsForCurrentUserSoapOut** response message that contains all the role definitions that the current user is assigned to, and an integer that is the bitwise "OR" combination of all the permission levels that the user has through these role definitions.

#### 3.1.4.22.1 Messages

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

Message	Description
<b>GetRolesAndPermissionsForCurrentUserSoapIn</b>	A request to initiate a <b>GetRolesAndPermissionsForCurrentUser</b> operation on the protocol server.
<b>GetRolesAndPermissionsForCurrentUserSoapOut</b>	A response from the protocol server at completion of the <b>GetRolesAndPermissionsForCurrentUser</b> operation.

##### 3.1.4.22.1.1 GetRolesAndPermissionsForCurrentUserSoapIn

This message is the request of the **GetRolesAndPermissionsForCurrentUser** operation (section [3.1.4.22](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForCurrentUser
```

The SOAP body contains a **GetRolesAndPermissionsForCurrentUser** element, as specified in section [3.1.4.22.2.1](#).

##### 3.1.4.22.1.2 GetRolesAndPermissionsForCurrentUserSoapOut

This message is the response of the **GetRolesAndPermissionsForCurrentUser** operation (section [3.1.4.22](#)).

The SOAP action value of the message is defined as:

The SOAP body contains a **GetRolesAndPermissionsForCurrentUserResponse** element, as specified in section [3.1.4.22.2.2](#).

### 3.1.4.22.2 Elements

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

Element	Description
<b>GetRolesAndPermissionsForCurrentUser</b>	Body of the <b>GetRolesAndPermissionsForCurrentUserSoapIn</b> message.
<b>GetRolesAndPermissionsForCurrentUserResponse</b>	Body of the <b>GetRolesAndPermissionsForCurrentUserSoapOut</b> message.

#### 3.1.4.22.2.1 GetRolesAndPermissionsForCurrentUser

This element specifies details for the request to return the permissions and role definitions for the current user.

```
<s:element name="GetRolesAndPermissionsForCurrentUser">  
  <s:complexType/>  
</s:element>
```

#### 3.1.4.22.2.2 GetRolesAndPermissionsForCurrentUserResponse

This element contains the response to the request to return the permissions and role definitions for the current user.

```
<s:element name="GetRolesAndPermissionsForCurrentUserResponse" >  
  <s:complexType>  
    <s:sequence>  
      <s:element name="GetRolesAndPermissionsForCurrentUserResult">  
        <s:complexType>  
          <s:sequence>  
            <s:element name="RolesAndPermissions">  
              <s:complexType>  
                <s:sequence>  
                  <s:element name="Permissions">  
                    <s:complexType>  
                      <s:attribute name="Value" type="s:unsignedLong" use="required" />  
                    </s:complexType>  
                  </s:element>  
                  <s:element name="Roles" type="tns:RolesOutputMaskType" minOccurs="0" />  
                </s:sequence>  
              </s:complexType>  
            </s:element>  
          </s:sequence>  
        </s:complexType>  
      </s:element>  
    </s:sequence>  
  </s:complexType>
```

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

**GetRolesAndPermissionsForCurrentUserResult:** A **SoapXml.SoapXmlElement** object that MUST contain the following:

- **Permissions:** An unsigned long integer that is the bitwise "OR" combination of multiple permission levels as specified in [\[MS-WSSFO2\]](#) section 2.2.2.13
- **Roles:** Contain zero or more role definitions according to the schema of the **RolesOutputMaskType** complex type as specified in section [2.2.4.7](#).

### 3.1.4.22.3 Complex Types

None.

### 3.1.4.22.4 Simple Types

None.

### 3.1.4.22.5 Attributes

None.

### 3.1.4.22.6 Groups

None.

### 3.1.4.22.7 Attribute Groups

None.

### 3.1.4.23 GetRolesAndPermissionsForSite

This operation [<14>](#) is used to return the permissions and role definitions for the current site collection.

```
<wsdl:operation name="GetRolesAndPermissionsForSite">
  <wsdl:input message="GetRolesAndPermissionsForSiteSoapIn" />
  <wsdl:output message="GetRolesAndPermissionsForSiteSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetRolesAndPermissionsForSiteSoapIn** request message (section [3.1.4.23.1.1](#)), and the protocol server responds with a **GetRolesAndPermissionsForSiteSoapOut** response message (section [3.1.4.23.1.2](#)), as follows:

- The server MUST respond with a **GetRolesAndPermissionsForSiteSoapOut** response message that contains all the role definitions in the site collection. Each role definition has a permission level that defines the permissions for that role definition.

### 3.1.4.23.1 Messages

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

Message	Description
<b>GetRolesAndPermissionsForSiteSoapIn</b>	A request to initiate a <b>GetRolesAndPermissionsForSite</b> operation on the protocol server.
<b>GetRolesAndPermissionsForSiteSoapOut</b>	A response from the protocol server at completion of the <b>GetRolesAndPermissionsForSite</b> operation.

#### 3.1.4.23.1.1 GetRolesAndPermissionsForSiteSoapIn

This message is the request of the **GetRolesAndPermissionsForSite** operation (section [3.1.4.23](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForSite`

The SOAP body contains a **GetRolesAndPermissionsForSite** element, as specified in section [3.1.4.23.2.1](#).

#### 3.1.4.23.1.2 GetRolesAndPermissionsForSiteSoapOut

This message is the response of the **GetRolesAndPermissionsForSite** operation (section [3.1.4.23](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForSite`

The SOAP body contains a **GetRolesAndPermissionsForSiteResponse** element, as specified in section [3.1.4.23.2.2](#).

### 3.1.4.23.2 Elements

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

Element	Description
<b>GetRolesAndPermissionsForSite</b>	Body of the <b>GetRolesAndPermissionsForSiteSoapIn</b> message.
<b>GetRolesAndPermissionsForSiteResponse</b>	Body of the <b>GetRolesAndPermissionsForSiteSoapOut</b> message.

#### 3.1.4.23.2.1 GetRolesAndPermissionsForSite

This element specifies details for the request to return the permissions and role definitions for the current site collection.

```
<s:element name="GetRolesAndPermissionsForSite">
  <s:complexType/>
</s:element>
```

### 3.1.4.23.2 GetRolesAndPermissionsForSiteResponse

This element contains the response to the request to return the permissions and role definitions for the current site collection.

```
<s:element name="GetRolesAndPermissionsForSiteResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRolesAndPermissionsForSiteResult">
        <s:complexType>
          <s:sequence>
            <s:element name="Roles" type="tns:RolesOutputMaskType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetRolesAndPermissionsForSiteResult:** A **SoapXml.SoapXmlElement** object that MUST contain zero or more role definitions according to the schema of the **RolesOutputMaskType** complex type as specified in section [2.2.4.7](#).

### 3.1.4.23.3 Complex Types

None.

### 3.1.4.23.4 Simple Types

None.

### 3.1.4.23.5 Attributes

None.

### 3.1.4.23.6 Groups

None.

### 3.1.4.23.7 Attribute Groups

None.

### 3.1.4.24 GetUserCollection

This operation is used to get information about a collection of users in the current site (2) based on the specified collection of login names.

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

```

    <wsdl:input message="GetUserCollectionSoapIn" />
    <wsdl:output message="GetUserCollectionSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetUserCollectionSoapIn** request message (section [3.1.4.24.1.1](#)), and the protocol server responds with a **GetUserCollectionSoapOut** response message (section [3.1.4.24.1.2](#)) in the following sequence:

1. If any of the login names is empty, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST ignore nonexisting users that are specified, and MUST respond with a **GetUserCollectionSoapOut** response message that contains information about the users.

### 3.1.4.24.1 Messages

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

Message	Description
<b>GetUserCollectionSoapIn</b>	A request to initiate a <b>GetUserCollection</b> operation on the protocol server.
<b>GetUserCollectionSoapOut</b>	A response from the protocol server at completion of the <b>GetUserCollection</b> operation.

#### 3.1.4.24.1.1 GetUserCollectionSoapIn

This message is the request of the **GetUserCollection** operation (section [3.1.4.24](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollection
```

The SOAP body contains a **GetUserCollection** element, as specified in section [3.1.4.24.2.1](#).

#### 3.1.4.24.1.2 GetUserCollectionSoapOut

This message is the response of the **GetUserCollection** operation (section [3.1.4.24](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollection
```

The SOAP body contains a **GetUserCollectionResponse** element, as specified in section [3.1.4.24.2.2](#).

### 3.1.4.24.2 Elements

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



Element	Description
<b>GetUserCollection</b>	Body of the <b>GetUserCollectionSoapIn</b> message.
<b>GetUserCollectionResponse</b>	Body of the <b>GetUserCollectionSoapOut</b> message.

### 3.1.4.24.2.1 GetUserCollection

This element specifies details for the request to get information about a collection of users based on the specified collection of login names.

```
<s:element name="GetUserCollection">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginNamesXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginNamesXml:** An XML element that specifies a collection of users.

### 3.1.4.24.2.2 GetUserCollectionResponse

This element contains the response to the request to get information about a collection of users based on the specified collection of login names.

```
<s:element name="GetUserCollectionResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollection">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetUserCollectionResult:** An XML element that specifies information about a collection of users.

### 3.1.4.24.3 Complex Types

None.

### 3.1.4.24.4 Simple Types

None.

### 3.1.4.24.5 Attributes

None.

### 3.1.4.24.6 Groups

None.

### 3.1.4.24.7 Attribute Groups

None.

### 3.1.4.25 GetUserCollectionFromGroup

This operation is used to get information about a collection of users in a group (2).

```
<wsdl:operation name="GetUserCollectionFromGroup">
  <wsdl:input message="GetUserCollectionFromGroupSoapIn" />
  <wsdl:output message="GetUserCollectionFromGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetUserCollectionFromGroupSoapIn** request message (section [3.1.4.25.1.1](#)), and the protocol server responds with a **GetUserCollectionFromGroupSoapOut** response message (section [3.1.4.25.1.2](#)) in the following sequence:

1. If a group (2) with the specified name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetUserCollectionFromGroupSoapOut** response message that contains information about the collection of users.

#### 3.1.4.25.1 Messages

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

Message	Description
<b>GetUserCollectionFromGroupSoapIn</b>	A request to initiate a <b>GetUserCollectionFromGroup</b> operation on the protocol server.
<b>GetUserCollectionFromGroupSoapOut</b>	A response from the protocol server at completion of the <b>GetUserCollectionFromGroup</b> operation.

### 3.1.4.25.1.1 GetUserCollectionFromGroupSoapIn

This message is the request of the **GetUserCollectionFromGroup** operation (section [3.1.4.25](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromGroup
```

The SOAP body contains a **GetUserCollectionFromGroup** element, as specified in section [3.1.4.25.2.1](#).

### 3.1.4.25.1.2 GetUserCollectionFromGroupSoapOut

This message is the response of the **GetUserCollectionFromGroup** operation (section [3.1.4.25](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromGroup
```

The SOAP body contains a **GetUserCollectionFromGroupResponse** element, as specified in section [3.1.4.25.2.2](#).

### 3.1.4.25.2 Elements

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

Element	Description
<b>GetUserCollectionFromGroup</b>	Body of the <b>GetUserCollectionFromGroupSoapIn</b> message.
<b>GetUserCollectionFromGroupResponse</b>	Body of the <b>GetUserCollectionFromGroupSoapOut</b> message.

### 3.1.4.25.2.1 GetUserCollectionFromGroup

This element specifies details for the request to get information about a collection of users in a group (2).

```
<s:element name="GetUserCollectionFromGroup">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="groupName" type="tns:String255Type" />  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**groupName:** The name of a group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

### 3.1.4.25.2.2 GetUserCollectionFromGroupResponse

This element contains the response to the request to get information about a collection of users in a group (2).

```
<s:element name="GetUserCollectionFromGroupResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromGroupResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromGroup">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetUserCollectionFromGroupResult:** An XML element that specifies information about a collection of users in a group (2).

### 3.1.4.25.3 Complex Types

None.

### 3.1.4.25.4 Simple Types

None.

### 3.1.4.25.5 Attributes

None.

### 3.1.4.25.6 Groups

None.

### 3.1.4.25.7 Attribute Groups

None.

### 3.1.4.26 GetUserCollectionFromRole

This operation is used to get information about a collection of users assigned to a role definition.

```
<wsdl:operation name="GetUserCollectionFromRole">
  <wsdl:input message="GetUserCollectionFromRoleSoapIn" />
  <wsdl:output message="GetUserCollectionFromRoleSoapOut" />
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a **GetUserCollectionFromRoleSoapIn** request message (section [3.1.4.26.1.1](#)), and the protocol server responds with a **GetUserCollectionFromRoleSoapOut** response message (section [3.1.4.26.1.2](#)) in the following sequence:

1. If a role definition with the specified name does not exist, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetUserCollectionFromRoleSoapOut** response message that contains information about the collection of users.

### 3.1.4.26.1 Messages

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

Message	Description
<b>GetUserCollectionFromRoleSoapIn</b>	A request to initiate a <b>GetUserCollectionFromRole</b> operation on the protocol server.
<b>GetUserCollectionFromRoleSoapOut</b>	A response from the protocol server at completion of the <b>GetUserCollectionFromRole</b> operation.

#### 3.1.4.26.1.1 GetUserCollectionFromRoleSoapIn

This message is the request of the **GetUserCollectionFromRole** operation (section [3.1.4.26](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromRole`

The SOAP body contains a **GetUserCollectionFromRole** element, as specified in section [3.1.4.26.2.1](#).

#### 3.1.4.26.1.2 GetUserCollectionFromRoleSoapOut

This message is the response of the **GetUserCollectionFromRole** operation (section [3.1.4.26](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromRole`

The SOAP body contains a **GetUserCollectionFromRoleResponse** element, as specified in section [3.1.4.26.2.2](#).

### 3.1.4.26.2 Elements

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

Element	Description
<b>GetUserCollectionFromRole</b>	Body of the <b>GetUserCollectionFromRoleSoapIn</b> message.
<b>GetUserCollectionFromRoleResponse</b>	Body of the <b>GetUserCollectionFromRoleSoapOut</b> message.

### 3.1.4.26.2.1 GetUserCollectionFromRole

This element specifies details for the request to get information about a collection of users assigned to a role definition.

```
<s:element name="GetUserCollectionFromRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

### 3.1.4.26.2.2 GetUserCollectionFromRoleResponse

This element contains the response to the request to get information about a collection of users assigned to a role definition.

```
<s:element name="GetUserCollectionFromRoleResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromRoleResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromRole">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetUserCollectionFromRoleResult:** An XML element that specifies information about a collection of users.

### 3.1.4.26.3 Complex Types

None.

#### 3.1.4.26.4 Simple Types

None.

#### 3.1.4.26.5 Attributes

None.

#### 3.1.4.26.6 Groups

None.

#### 3.1.4.26.7 Attribute Groups

None.

#### 3.1.4.27 GetUserCollectionFromSite

This operation is used to get information about a collection of users in the current site collection.

```
<wsdl:operation name="GetUserCollectionFromSite">
  <wsdl:input message="GetUserCollectionFromSiteSoapIn" />
  <wsdl:output message="GetUserCollectionFromSiteSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetUserCollectionFromSiteSoapIn** request message (section [3.1.4.27.1.1](#)), and the protocol server responds with a **GetUserCollectionFromSiteSoapOut** response message (section [3.1.4.27.1.2](#)), as follows:

- The server MUST respond with a **GetUserCollectionFromSiteSoapOut** response message that contains information about the users.

##### 3.1.4.27.1 Messages

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

Message	Description
<b>GetUserCollectionFromSiteSoapIn</b>	A request to initiate a <b>GetUserCollectionFromSite</b> operation on the protocol server.
<b>GetUserCollectionFromSiteSoapOut</b>	A response from the protocol server at completion of the <b>GetUserCollectionFromSite</b> operation.

##### 3.1.4.27.1.1 GetUserCollectionFromSiteSoapIn

This message is the request of the **GetUserCollectionFromSite** operation (section [3.1.4.27](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromSite
```

The SOAP body contains a **GetUserCollectionFromSite** element, as specified in section [3.1.4.27.2.1](#).

### 3.1.4.27.1.2 GetUserCollectionFromSiteSoapOut

This message is the response of the **GetUserCollectionFromSite** operation (section [3.1.4.27](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromSite
```

The SOAP body contains a **GetUserCollectionFromSiteResponse** element, as specified in section [3.1.4.27.2.2](#).

### 3.1.4.27.2 Elements

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

Element	Description
<b>GetUserCollectionFromSite</b>	Body of the <b>GetUserCollectionFromSiteSoapIn</b> message.
<b>GetUserCollectionFromSiteResponse</b>	Body of the <b>GetUserCollectionFromSiteSoapOut</b> message.

#### 3.1.4.27.2.1 GetUserCollectionFromSite

This element specifies details for the request to get information about a collection of users for the current site collection.

```
<s:element name="GetUserCollectionFromSite">
  <s:complexType/>
</s:element>
```

#### 3.1.4.27.2.2 GetUserCollectionFromSiteResponse

This element contains the response to the request to get information about a collection of users for the current site collection.

```
<s:element name="GetUserCollectionFromSiteResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromSiteResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromSite">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
```



```

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

```

**GetUserCollectionFromSiteResult:** An XML element that specifies the information about a collection of users for the current site collection.

### 3.1.4.27.3 Complex Types

None.

### 3.1.4.27.4 Simple Types

None.

### 3.1.4.27.5 Attributes

None.

### 3.1.4.27.6 Groups

None.

### 3.1.4.27.7 Attribute Groups

None.

### 3.1.4.28 GetUserCollectionFromWeb

This operation is used to get information about the collection of users who have been explicitly added to a role definition for the current site (2).

```

<wsdl:operation name="GetUserCollectionFromWeb">
  <wsdl:input message="GetUserCollectionFromWebSoapIn" />
  <wsdl:output message="GetUserCollectionFromWebSoapOut" />
</wsdl:operation>

```

The protocol client sends a **GetUserCollectionFromWebSoapIn** request message (section [3.1.4.28.1.1](#)), and the protocol server responds with a **GetUserCollectionFromWebSoapOut** response message (section [3.1.4.28.1.2](#)), as follows:

- The server MUST respond with a **GetUserCollectionFromWebSoapOut** response message that contains information about the users.

#### 3.1.4.28.1 Messages

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

Message	Description
<b>GetUserCollectionFromWebSoapIn</b>	A request to initiate a <b>GetUserCollectionFromWeb</b> operation

Message	Description
	on the protocol server.
<b>GetUserCollectionFromWebSoapOut</b>	A response from the protocol server at completion of the <b>GetUserCollectionFromWeb</b> operation.

### 3.1.4.28.1.1 GetUserCollectionFromWebSoapIn

This message is the request of the **GetUserCollectionFromWeb** operation (section [3.1.4.28](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromWeb
```

The SOAP body contains a **GetUserCollectionFromWeb** element, as specified in section [3.1.4.28.2.1](#).

### 3.1.4.28.1.2 GetUserCollectionFromWebSoapOut

This message is the response of the **GetUserCollectionFromWeb** operation (section [3.1.4.28](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromWeb
```

The SOAP body contains a **GetUserCollectionFromWebResponse** element, as specified in section [3.1.4.28.2.2](#).

## 3.1.4.28.2 Elements

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

Element	Description
<b>GetUserCollectionFromWeb</b>	Body of the <b>GetUserCollectionFromWebSoapIn</b> message.
<b>GetUserCollectionFromWebResponse</b>	Body of the <b>GetUserCollectionFromWebSoapOut</b> message.

### 3.1.4.28.2.1 GetUserCollectionFromWeb

This element specifies details for the request to get information about the collection of users who have been explicitly added to a role definition for the current site (2).

```
<s:element name="GetUserCollectionFromWeb">
  <s:complexType/>
</s:element>
```

### 3.1.4.28.2.2 GetUserCollectionFromWebResponse

This element contains the response to the request to get information about the collection of users who have been explicitly added to a role definition for the current site (2).

```
<s:element name="GetUserCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromWeb">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetUserCollectionFromWebResult:** An XML element that specifies the information about the collection of users who have been explicitly added to a role definition for the current site (2).

### 3.1.4.28.3 Complex Types

None.

### 3.1.4.28.4 Simple Types

None.

### 3.1.4.28.5 Attributes

None.

### 3.1.4.28.6 Groups

None.

### 3.1.4.28.7 Attribute Groups

None.

### 3.1.4.29 GetUserInfo

This operation is used to get information about the specified user.

```
<wsdl:operation name="GetUserInfo">
  <wsdl:input message="GetUserInfoSoapIn" />
  <wsdl:output message="GetUserInfoSoapOut" />
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends a **GetUserInfoSoapIn** request message (section [3.1.4.29.1.1](#)), and the protocol server responds with a **GetUserInfoSoapOut** response message (section [3.1.4.29.1.2](#)) in the following sequence:

1. If a user with the specified login name does not exist, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST respond with a **GetUserInfoSoapOut** response message that contains information about the user.

### 3.1.4.29.1 Messages

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

Message	Description
<b>GetUserInfoSoapIn</b>	A request to initiate a <b>GetUserInfo</b> operation on the protocol server.
<b>GetUserInfoSoapOut</b>	A response from the protocol server at completion of the <b>GetUserInfo</b> operation.

#### 3.1.4.29.1.1 GetUserInfoSoapIn

This message is the request of the **GetUserInfo** operation (section [3.1.4.29](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetUserInfo`

The SOAP body contains a **GetUserInfo** element, as specified in section [3.1.4.29.2.1](#).

#### 3.1.4.29.1.2 GetUserInfoSoapOut

This message is the response of the **GetUserInfo** operation (section [3.1.4.29](#)).

The SOAP action value of the message is defined as:

`http://schemas.microsoft.com/sharepoint/soap/directory/GetUserInfo`

The SOAP body contains a **GetUserInfoResponse** element, as specified in section [3.1.4.29.2.2](#).

### 3.1.4.29.2 Elements

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

Element	Description
<b>GetUserInfo</b>	Body of the <b>GetUserInfoSoapIn</b> message.

Element	Description
<b>GetUserInfoResponse</b>	Body of the <b>GetUserInfoSoapOut</b> message.

### 3.1.4.29.2.1 GetUserInfo

This element specifies details for the request to get information about the specified user.

```
<s:element name="GetUserInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

### 3.1.4.29.2.2 GetUserInfoResponse

This element contains the response to the request to get information about the specified user.

```
<s:element name="GetUserInfoResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserInfoResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserInfo">
              <s:complexType>
                <s:sequence>
                  <s:element name="User" type="tns:User" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**GetUserInfoResult:** An XML element that specifies the information about the specified user.

### 3.1.4.29.3 Complex Types

None.

### 3.1.4.29.4 Simple Types

None.

### 3.1.4.29.5 Attributes

None.

### 3.1.4.29.6 Groups

None.

### 3.1.4.29.7 Attribute Groups

None.

### 3.1.4.30 GetUserLoginFromEmail

This operation is used to return information about a collection of users based on the specified e-mail addresses.

```
<wsdl:operation name="GetUserLoginFromEmail">
  <wsdl:input message="GetUserLoginFromEmailSoapIn" />
  <wsdl:output message="GetUserLoginFromEmailSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetUserLoginFromEmailSoapIn** request message (section [3.1.4.30.1.1](#)), and the protocol server responds with a **GetUserLoginFromEmailSoapOut** response message (section [3.1.4.30.1.2](#)) in the following sequence:

1. The server MUST respond with a **GetUserLoginFromEmailSoapOut** response message that contains information about the collection of users.
2. If no user can be found for a specified e-mail address, the server MUST assign an empty string to the **Login**, **Email**, and **DisplayName** attributes and MUST assign zero ("0") to the **SiteUser** attribute [<15>](#).

#### 3.1.4.30.1 Messages

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

Message	Description
<b>GetUserLoginFromEmailSoapIn</b>	A request to initiate a <b>GetUserLoginFromEmail</b> operation on the protocol server.
<b>GetUserLoginFromEmailSoapOut</b>	A response from the protocol server at completion of the <b>GetUserLoginFromEmail</b> operation.

##### 3.1.4.30.1.1 GetUserLoginFromEmailSoapIn

This message is the request of the **GetUserLoginFromEmail** operation section ([3.1.4.30](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserLoginFromEmail
```

The SOAP body contains a **GetUserLoginFromEmail** element, as specified in section [3.1.4.30.2.1](#).

### 3.1.4.30.1.2 GetUserLoginFromEmailSoapOut

This message is the response of the **GetUserLoginFromEmail** operation (section [3.1.4.30](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/GetUserLoginFromEmail
```

The SOAP body contains a **GetUserLoginFromEmailResponse** element, as specified in section [3.1.4.30.2.2](#).

### 3.1.4.30.2 Elements

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

Element	Description
<b>GetUserLoginFromEmail</b>	Body of the <b>GetUserLoginFromEmailSoapIn</b> message.
<b>GetUserLoginFromEmailResponse</b>	Body of the <b>GetUserLoginFromEmailSoapOut</b> message.

#### 3.1.4.30.2.1 GetUserLoginFromEmail

This element specifies details for the request to return information about a collection of users based on the specified e-mail addresses.

```
<s:element name="GetUserLoginFromEmail">
  <s:complexType>
    <s:sequence>
      <s:element name="emailXml" type="tns:EmailsInputType"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**emailXml:** A **SoapXml.S SoapXmlElement** object that MUST specify zero or more e-mail addresses according to the schema of the **EmailsInputType** complex type as specified in section [3.1.4.30.3.1](#).

#### 3.1.4.30.2.2 GetUserLoginFromEmailResponse

This element contains the response to the request to return a collection of user information based on the specified e-mail addresses.

```
<s:element name="GetUserLoginFromEmailResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserLoginFromEmailResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserLoginFromEmail" type="tns:EmailsOutputType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
```

```

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

```

**GetUserLoginFromEmail:** An XML element that MUST follow the schema of the **EmailsOutputType** schema as specified in section [3.1.4.30.3.2](#).

**GetUserLoginFromEmailResult:** A **SoapXml.SoapXmlElement** object that MUST contain e-mail information about zero or more users according to the schema of the **EmailsOutputType** complex type as specified in section [3.1.4.30.3.2](#).

### 3.1.4.30.3 Complex Types

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

Complex type	Description
<b>EmailsInputType</b>	Collection of user e-mail addresses.
<b>EmailsOutputType</b>	Collection of user information.

#### 3.1.4.30.3.1 EmailsInputType

The **EmailsInputType** complex type contains a collection of user e-mail addresses as input to this operation.

```

<s:complexType name="EmailsInputType">
  <s:sequence>
    <s:element name="Users">
      <s:complexType>
        <s:sequence>
          <s:element name="User" minOccurs="0" maxOccurs="100">
            <s:complexType>
              <s:attribute name="Email" type="tns:String255Type" />
            </s:complexType>
          </s:element>
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>

```

**Email:** The e-mail address of the user. The specified value MUST NOT contain null or an empty string [<16>](#) and MUST contain less than 256 characters.

#### 3.1.4.30.3.2 EmailsOutputType

The **EmailsOutputType** complex type contains information about a collection of users as the output to this operation.

```

<s:complexType name="EmailsOutputType">
  <s:sequence>

```



```

<s:element name="User" minOccurs="0" maxOccurs="100">
  <s:complexType>
    <s:attribute name="Login" type="s:string" />
    <s:attribute name="Email" type="s:string" />
    <s:attribute name="DisplayName" type="s:string" />
    <s:attribute name="SiteUser">
      <s:simpleType>
        <s:restriction base="s:nonNegativeInteger">
          <s:enumeration value="0" />
          <s:enumeration value="1" />
        </s:restriction>
      </s:simpleType>
    </s:attribute>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>

```

**Login:** The login name of a user.

**Email:** The e-mail address of a user.

**DisplayName:** The display name of a user.

**SiteUser:** The information about whether this user exists in the current site. The value "1" indicates that this user exists in the current site (2), and zero ("0") indicates that this user does not exist in the current site (2).

#### 3.1.4.30.4 Simple Types

None.

#### 3.1.4.30.5 Attributes

None

#### 3.1.4.30.6 Groups

None.

#### 3.1.4.30.7 Attribute Groups

None.

#### 3.1.4.31 RemoveGroup

This operation is used to remove a specified group (2).

```

<wsdl:operation name="RemoveGroup">
  <wsdl:input message="RemoveGroupSoapIn" />
  <wsdl:output message="RemoveGroupSoapOut" />
</wsdl:operation>

```

The protocol client sends a **RemoveGroupSoapIn** request message (section [3.1.4.31.1.1](#)), and the protocol server responds with a **RemoveGroupSoapOut** response message (section [3.1.4.31.1.2](#)) in the following sequence:

1. If a group (2) with the specified name does not exist in the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. If the group name is "Farm Administrators" (case insensitive), the server MUST return a SOAP fault.
3. Otherwise, the server MUST remove the group from the site collection and from all role definitions and MUST respond with a **RemoveGroupSoapOut** response message.

### 3.1.4.31.1 Messages

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

Message	Description
<b>RemoveGroupSoapIn</b>	A request to initiate a <b>RemoveGroup</b> operation on the protocol server.
<b>RemoveGroupSoapOut</b>	A response from the protocol server at completion of the <b>RemoveGroup</b> operation.

#### 3.1.4.31.1.1 RemoveGroupSoapIn

This message is the request of the **RemoveGroup** operation (section [3.1.4.31](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroup
```

The SOAP body contains a **RemoveGroup** element, as specified in section [3.1.4.31.2.1](#).

#### 3.1.4.31.1.2 RemoveGroupSoapOut

This message is the response of the **RemoveGroup** operation (section [3.1.4.31](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroup
```

The SOAP body contains a **RemoveGroupResponse** element, as specified in section [3.1.4.31.2.2](#).

### 3.1.4.31.2 Elements

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

Element	Description
<b>RemoveGroup</b>	Body of the <b>RemoveGroupSoapIn</b> message.

Element	Description
<b>RemoveGroupResponse</b>	Body of the <b>RemoveGroupSoapOut</b> message.

### 3.1.4.31.2.1 RemoveGroup

This element specifies details for the request to remove a specified group (2).

```
<s:element name="RemoveGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

### 3.1.4.31.2.2 RemoveGroupResponse

This element contains the response to the request to remove a specified group (2).

```
<s:element name="RemoveGroupResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.31.3 Complex Types

None.

### 3.1.4.31.4 Simple Types

None.

### 3.1.4.31.5 Attributes

None.

### 3.1.4.31.6 Groups

None.

### 3.1.4.31.7 Attribute Groups

None.

### 3.1.4.32 RemoveGroupFromRole

This operation is used to remove a specified group (2) from a specified role definition.

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

```

    <wsdl:input message="RemoveGroupFromRoleSoapIn" />
    <wsdl:output message="RemoveGroupFromRoleSoapOut" />
</wsdl:operation>

```

The protocol client sends a **RemoveGroupFromRoleSoapIn** request message (section [3.1.4.32.1.1](#)), and the protocol server responds with a **RemoveGroupFromRoleSoapOut** response message (section [3.1.4.32.1.2](#)) in the following sequence:

1. If the specified role definition cannot be found on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. If the specified group (2) cannot be found on the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
3. If the group is not assigned to any role definition, the server MUST return a SOAP fault.
4. Otherwise, the server MUST remove the group from the role definition and MUST respond with a **RemoveGroupFromRoleSoapOut** response message.

### 3.1.4.32.1 Messages

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

Message	Description
<b>RemoveGroupFromRoleSoapIn</b>	A request to initiate a <b>RemoveGroupFromRole</b> operation on the protocol server.
<b>RemoveGroupFromRoleSoapOut</b>	A response from the protocol server at completion of the <b>RemoveGroupFromRole</b> operation.

#### 3.1.4.32.1.1 RemoveGroupFromRoleSoapIn

This message is the request of the **RemoveGroupFromRole** operation (section [3.1.4.32](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroupFromRole
```

The SOAP body contains a **RemoveGroupFromRole** element, as specified in section [3.1.4.32.2.1](#).

#### 3.1.4.32.1.2 RemoveGroupFromRoleSoapOut

This message is the response of the **RemoveGroupFromRole** operation (section [3.1.4.32](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroupFromRole
```

The SOAP body contains a **RemoveGroupFromRoleResponse** element, as specified in section [3.1.4.32.2.2](#).

### 3.1.4.32.2 Elements

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

Element	Description
<b>RemoveGroupFromRole</b>	Body of the <b>RemoveGroupFromRoleSoapIn</b> message.
<b>RemoveGroupFromRoleResponse</b>	Body of the <b>RemoveGroupFromRoleSoapOut</b> message.

#### 3.1.4.32.2.1 RemoveGroupFromRole

This element specifies details for the request to remove a specified group (2) from a specified role definition.

```
<s:element name="RemoveGroupFromRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.32.2.2 RemoveGroupFromRoleResponse

This element contains the response to the request to remove a specified group (2) from a specified role definition.

```
<s:element name="RemoveGroupFromRoleResponse">
  <s:complexType/>
</s:element>
```

#### 3.1.4.32.3 Complex Types

None.

#### 3.1.4.32.4 Simple Types

None.

#### 3.1.4.32.5 Attributes

None.

### 3.1.4.32.6 Groups

None.

### 3.1.4.32.7 Attribute Groups

None.

### 3.1.4.33 RemoveRole

This operation is used to remove a specified role definition.

```
<wsdl:operation name="RemoveRole">
  <wsdl:input message="RemoveRoleSoapIn" />
  <wsdl:output message="RemoveRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveRoleSoapIn** request message (section [3.1.4.33.1.1](#)), and the protocol server responds with a **RemoveRoleSoapOut** response message (section [3.1.4.33.1.2](#)) in the following sequence:

1. If the specified role definition cannot be found on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. If this operation is called on a subsite, the server MUST return a SOAP fault.
3. If the role definition to be removed is a **Guest** or **Administrator** role type, as specified in [\[MS-DWSS\]](#) section 2.2.5.2, the server MUST return a SOAP fault with the error code 0x80131600.
4. Otherwise, the server MUST remove the role definition from the current site (2) and MUST respond with a **RemoveRoleSoapOut** response message.

#### 3.1.4.33.1 Messages

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

Message	Description
<b>RemoveRoleSoapIn</b>	A request to initiate a <b>RemoveRole</b> operation on the protocol server.
<b>RemoveRoleSoapOut</b>	A response from the protocol server at completion of the <b>RemoveRole</b> operation.

##### 3.1.4.33.1.1 RemoveRoleSoapIn

This message is the request of the **RemoveRole** operation (section [3.1.4.33](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveRole
```

The SOAP body contains a **RemoveRole** element, as specified in section [3.1.4.33.2.1](#).

### 3.1.4.33.1.2 RemoveRoleSoapOut

This message is the response of the **RemoveRole** operation ()section [3.1.4.33](#).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveRole
```

The SOAP body contains a **RemoveRoleResponse** element, as specified in section [3.1.4.33.2.2](#).

### 3.1.4.33.2 Elements

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

Element	Description
<b>RemoveRole</b>	Body of the <b>RemoveRoleSoapIn</b> message.
<b>RemoveRoleResponse</b>	Body of the <b>RemoveRoleSoapOut</b> message.

#### 3.1.4.33.2.1 RemoveRole

This element specifies details for the request to remove a specified role definition.

```
<s:element name="RemoveRole">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="roleName" type="tns:String255Type" />  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**roleName:** The name of the role. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

#### 3.1.4.33.2.2 RemoveRoleResponse

This element contains the response to the request to remove a specified role definition.

```
<s:element name="RemoveRoleResponse">  
  <s:complexType/>  
</s:element>
```

#### 3.1.4.33.3 Complex Types

None.

#### 3.1.4.33.4 Simple Types

None.

### 3.1.4.33.5 Attributes

None.

### 3.1.4.33.6 Groups

None.

### 3.1.4.33.7 Attribute Groups

None.

### 3.1.4.34 RemoveUserCollectionFromGroup

This operation is used to remove users from the specified group (2).

```
<wsdl:operation name="RemoveUserCollectionFromGroup">
  <wsdl:input message="RemoveUserCollectionFromGroupSoapIn" />
  <wsdl:output message="RemoveUserCollectionFromGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserCollectionFromGroupSoapIn** request message (section [3.1.4.34.1.1](#)), and the protocol server responds with a **RemoveUserCollectionFromGroupSoapOut** response message (section [3.1.4.34.1.2](#)) in the following sequence:

1. If a group (2) with the specified name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. If one or more users with the specified login names do not exist in the site collection, the server MUST return a SOAP fault with the error code 0x81020054. Otherwise, there is no error reported if the user has already been removed from the group (2) or is not a member of the group (2).
3. Otherwise, the server MUST remove the users from the group (2) and MUST respond with a **RemoveUserCollectionFromGroupSoapOut** response message [<17>](#).

#### 3.1.4.34.1 Messages

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

Message	Description
<b>RemoveUserCollectionFromGroupSoapIn</b>	A request to initiate a <b>RemoveUserCollectionFromGroup</b> operation on the protocol server.
<b>RemoveUserCollectionFromGroupSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserCollectionFromGroup</b> operation.

##### 3.1.4.34.1.1 RemoveUserCollectionFromGroupSoapIn

This message is the request of the **RemoveUserCollectionFromGroup** operation (section [3.1.4.34](#)).



The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromGroup
```

The SOAP body contains a **RemoveUserCollectionFromGroup** element, as specified in section [3.1.4.34.2.1](#).

### 3.1.4.34.1.2 RemoveUserCollectionFromGroupSoapOut

This message is the response of the **RemoveUserCollectionFromGroup** operation (section [3.1.4.34](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromGroup
```

The SOAP body contains a **RemoveUserCollectionFromGroupResponse** element, as specified in section [3.1.4.34.2.2](#).

### 3.1.4.34.2 Elements

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

Element	Description
<b>RemoveUserCollectionFromGroup</b>	Body of the <b>RemoveUserCollectionFromGroupSoapIn</b> message.
<b>RemoveUserCollectionFromGroupResponse</b>	Body of the <b>RemoveUserCollectionFromGroupSoapOut</b> message.

#### 3.1.4.34.2.1 RemoveUserCollectionFromGroup

This element specifies details for the request to remove users from the group (2).

```
<s:element name="RemoveUserCollectionFromGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type"/>
      <s:element name="userLoginNamesXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userLoginNamesXml:** A collection of users to remove from a group (2).

### 3.1.4.34.2.2 RemoveUserCollectionFromGroupResponse

This element contains the response to the request to remove users from the group (2).

```
<s:element name="RemoveUserCollectionFromGroupResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.34.3 Complex Types

None.

### 3.1.4.34.4 Simple Types

None.

### 3.1.4.34.5 Attributes

None.

### 3.1.4.34.6 Groups

None.

### 3.1.4.34.7 Attribute Groups

None.

### 3.1.4.35 RemoveUserCollectionFromRole

This operation is used to remove users from a role definition.

```
<wsdl:operation name="RemoveUserCollectionFromRole">
  <wsdl:input message="RemoveUserCollectionFromRoleSoapIn" />
  <wsdl:output message="RemoveUserCollectionFromRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserCollectionFromRoleSoapIn** request message (section [3.1.4.35.1.1](#)), and the protocol server responds with a **RemoveUserCollectionFromRoleSoapOut** response message (section [3.1.4.35.1.2](#)) in the following sequence:

1. If a role definition with the specified user is not assigned to the site(2), the server MUST return a SOAP fault with the error code 0x80131600.
2. If one or more users with the specified login names do not exist in the site collection, the server MUST return a SOAP fault with the error code 0x81020054. Otherwise, there is no error reported if the user has already been removed from the role definition, or is not a member of the role definition.

3. Otherwise, the server MUST remove the users from the role definition and MUST respond with a **RemoveUserCollectionFromRoleSoapOut** response message [<18>](#).

### 3.1.4.35.1 Messages

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

Message	Description
<b>RemoveUserCollectionFromRoleSoapIn</b>	A request to initiate a <b>RemoveUserCollectionFromRole</b> operation on the protocol server.
<b>RemoveUserCollectionFromRoleSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserCollectionFromRole</b> operation.

#### 3.1.4.35.1.1 RemoveUserCollectionFromRoleSoapIn

This message is the request of the **RemoveUserCollectionFromRole** operation (section [3.1.4.35](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromRole
```

The SOAP body contains a **RemoveUserCollectionFromRole** element, as specified in section [3.1.4.35.2.1](#).

#### 3.1.4.35.1.2 RemoveUserCollectionFromRoleSoapOut

This message is the response of the **RemoveUserCollectionFromRole** operation (section [3.1.4.35](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromRole
```

The SOAP body contains a **RemoveUserCollectionFromRoleResponse** element, as specified in section [3.1.4.35.2.2](#).

### 3.1.4.35.2 Elements

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

Element	Description
<b>RemoveUserCollectionFromRole</b>	Body of the <b>RemoveUserCollectionFromRoleSoapIn</b> message.
<b>RemoveUserCollectionFromRoleResponse</b>	Body of the <b>RemoveUserCollectionFromRoleSoapOut</b> message.

### 3.1.4.35.2.1 RemoveUserCollectionFromRole

This element specifies details for the request to remove users from a role definition.

```
<s:element name="RemoveUserCollectionFromRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type"/>
      <s:element name="userLoginNamesXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userLoginNamesXml:** A list of the users to remove from a role definition.

### 3.1.4.35.2.2 RemoveUserCollectionFromRoleResponse

This element contains the response to the request to remove users from the role definition.

```
<s:element name="RemoveUserCollectionFromRoleResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.35.3 Complex Types

None.

### 3.1.4.35.4 Simple Types

None.

### 3.1.4.35.5 Attributes

None.

### 3.1.4.35.6 Groups

None.

### 3.1.4.35.7 Attribute Groups

None.

### 3.1.4.36 RemoveUserCollectionFromSite

This operation is used to remove users from the current site collection.

```
<wsdl:operation name="RemoveUserCollectionFromSite">
  <wsdl:input message="RemoveUserCollectionFromSiteSoapIn" />
  <wsdl:output message="RemoveUserCollectionFromSiteSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserCollectionFromSiteSoapIn** request message (section [3.1.4.36.1.1](#)), and the protocol server responds with a **RemoveUserCollectionFromSiteSoapOut** response message (section [3.1.4.36.1.2](#)) in the following sequence:

1. If one or more users with the specified login names was never added to the site collection, the server MUST return a SOAP fault with the error code 0x80004005.
2. If one or more of the specified login names is invalid, the server MUST return a SOAP fault with the error code 0x81020054.
3. If one or more users with the specified login names are the owners of the site collection, the server MUST return a SOAP fault with the error code 0x81020045.
4. Otherwise, the server MUST remove the users from the site collection [19](#) and from all groups (2) and role definitions assigned to this site collection, and MUST respond with a **RemoveUserCollectionFromSiteSoapOut** response message [20](#).

#### 3.1.4.36.1 Messages

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

Message	Description
<b>RemoveUserCollectionFromSiteSoapIn</b>	A request to initiate a <b>RemoveUserCollectionFromSite</b> operation on the protocol server.
<b>RemoveUserCollectionFromSiteSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserCollectionFromSite</b> operation.

##### 3.1.4.36.1.1 RemoveUserCollectionFromSiteSoapIn

This message is the request of the **RemoveUserCollectionFromSite** operation (section [3.1.4.36](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromSite
```

The SOAP body contains a **RemoveUserCollectionFromSite** element, as specified in section [3.1.4.36.2.1](#).

##### 3.1.4.36.1.2 RemoveUserCollectionFromSiteSoapOut

This message is the response of the **RemoveUserCollectionFromSite** operation (section [3.1.4.36](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromSite
```

The SOAP body contains a **RemoveUserCollectionFromSiteResponse** element, as specified in section [3.1.4.36.2.2](#).

### 3.1.4.36.2 Elements

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

Element	Description
<b>RemoveUserCollectionFromSite</b>	Body of the <b>RemoveUserCollectionFromSiteSoapIn</b> message.
<b>RemoveUserCollectionFromSiteResponse</b>	Body of the <b>RemoveUserCollectionFromSiteSoapOut</b> message.

#### 3.1.4.36.2.1 RemoveUserCollectionFromSite

This element specifies details for the request to remove users from the current site collection.

```
<s:element name="RemoveUserCollectionFromSite">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginNamesXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginNamesXml:** A collection of users to remove from the current site collection.

#### 3.1.4.36.2.2 RemoveUserCollectionFromSiteResponse

This element contains the response to the request to remove users from the current site collection.

```
<s:element name="RemoveUserCollectionFromSiteResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.36.3 Complex Types

None.

### 3.1.4.36.4 Simple Types

None.

### 3.1.4.36.5 Attributes

None.

### 3.1.4.36.6 Groups

None.

### 3.1.4.36.7 Attribute Groups

None.

## 3.1.4.37 RemoveUserFromGroup

This operation is used to remove the specified user from a group (2).

```
<wsdl:operation name="RemoveUserFromGroup">
  <wsdl:input message="RemoveUserFromGroupSoapIn" />
  <wsdl:output message="RemoveUserFromGroupSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserFromGroupSoapIn** request message (section [3.1.4.37.1.1](#)), and the protocol server responds with a **RemoveUserFromGroupSoapOut** response message (section [3.1.4.37.1.2](#)) in the following sequence:

1. If a group (2) with the specified name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x80131600.
2. If a user with the specified login name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x81020054. Otherwise, there is no error reported if the user has already been removed from the group (2) or is not a member of the group (2).
3. Otherwise, the server MUST remove the user from the group (2) and MUST respond with a **RemoveUserFromGroupSoapOut** response message.

### 3.1.4.37.1 Messages

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

Message	Description
<b>RemoveUserFromGroupSoapIn</b>	A request to initiate a <b>RemoveUserFromGroup</b> operation on the protocol server.
<b>RemoveUserFromGroupSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserFromGroup</b> operation.

### 3.1.4.37.1.1 RemoveUserFromGroupSoapIn

This message is the request of the **RemoveUserFromGroup** operation (section [3.1.4.37](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromGroup
```

The SOAP body contains a **RemoveUserFromGroup** element, as specified in section [3.1.4.37.2.1](#).

### 3.1.4.37.1.2 RemoveUserFromGroupSoapOut

This message is the response of the **RemoveUserFromGroup** operation (section [3.1.4.37](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromGroup
```

The SOAP body contains a **RemoveUserFromGroupResponse** element, as specified in section [3.1.4.37.2.2](#).

### 3.1.4.37.2 Elements

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

Element	Description
<b>RemoveUserFromGroup</b>	Body of the <b>RemoveUserFromGroupSoapIn</b> message.
<b>RemoveUserFromGroupResponse</b>	Body of the <b>RemoveUserFromGroupSoapOut</b> message.

### 3.1.4.37.2.1 RemoveUserFromGroup

This element specifies details for the request to remove the specified user from a group (2).

```
<s:element name="RemoveUserFromGroup">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="groupName" type="tns:String255Type"/>  
      <s:element name="userLoginName" type="tns:String251Type"/>  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

**groupName:** The name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.



### 3.1.4.37.2.2 RemoveUserFromGroupResponse

This element contains the response to the request to remove the specified user from a group (2).

```
<s:element name="RemoveUserFromGroupResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.37.3 Complex Types

None.

### 3.1.4.37.4 Simple Types

None.

### 3.1.4.37.5 Attributes

None.

### 3.1.4.37.6 Groups

None.

### 3.1.4.37.7 Attribute Groups

None.

### 3.1.4.38 RemoveUserFromRole

This operation is used to remove the specified user from a role definition.

```
<wsdl:operation name="RemoveUserFromRole">
  <wsdl:input message="RemoveUserFromRoleSoapIn" />
  <wsdl:output message="RemoveUserFromRoleSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserFromRoleSoapIn** request message (section [3.1.4.38.1.1](#)), and the protocol server responds with a **RemoveUserFromRoleSoapOut** response message (section [3.1.4.38.1.2](#)) in the following sequence:

1. If a role definition with the specified name is not assigned to the site (2), the server MUST return a SOAP fault with the error code 0x80131600.
2. If a user with the specified login name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x81020054. Otherwise, there is no error reported if the user has already been removed from the role definition or is not a member of the role definition.
3. Otherwise, the server MUST remove the user from the role definition and MUST respond with a **RemoveUserFromRoleSoapOut** response message.

### 3.1.4.38.1 Messages

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

Message	Description
<b>RemoveUserFromRoleSoapIn</b>	A request to initiate a <b>RemoveUserFromRole</b> operation on the protocol server.
<b>RemoveUserFromRoleSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserFromRole</b> operation.

#### 3.1.4.38.1.1 RemoveUserFromRoleSoapIn

This message is the request of the **RemoveUserFromRole** operation (section [3.1.4.38](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromRole
```

The SOAP body contains a **RemoveUserFromRole** element, as specified in section [3.1.4.38.2.1](#).

#### 3.1.4.38.1.2 RemoveUserFromRoleSoapOut

This message is the response of the **RemoveUserFromRole** operation (section [3.1.4.38](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromRole
```

The SOAP body contains a **RemoveUserFromRoleResponse** element, as specified in section [3.1.4.38.2.2](#).

### 3.1.4.38.2 Elements

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

Element	Description
<b>RemoveUserFromRole</b>	Body of the <b>RemoveUserFromRoleSoapIn</b> message.
<b>RemoveUserFromRoleResponse</b>	Body of the <b>RemoveUserFromRoleSoapOut</b> message.

#### 3.1.4.38.2.1 RemoveUserFromRole

This element specifies details for the request to remove the specified user from a role definition.

```
<s:element name="RemoveUserFromRole">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="roleName" type="tns:String255Type"/>  
    </s:sequence>  
  </s:complexType>  
</s:element>
```

```
<s:element name="userLoginName" type="tns:String251Type"/>
</s:sequence>
</s:complexType>
</s:element>
```

**roleName:** The name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

### 3.1.4.38.2.2 RemoveUserFromRoleResponse

This element contains the response to the request to remove the specified user from a role definition.

```
<s:element name="RemoveUserFromRoleResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.38.3 Complex Types

None.

### 3.1.4.38.4 Simple Types

None.

### 3.1.4.38.5 Attributes

None.

### 3.1.4.38.6 Groups

None.

### 3.1.4.38.7 Attribute Groups

None.

### 3.1.4.39 RemoveUserFromSite

This operation is used to remove the specified user from the current site collection.

```
<wsdl:operation name="RemoveUserFromSite">
  <wsdl:input message="RemoveUserFromSiteSoapIn" />
  <wsdl:output message="RemoveUserFromSiteSoapOut" />
</wsdl:operation>
```

The protocol client sends a **RemoveUserFromSiteSoapIn** request message (section [3.1.4.39.1.1](#)), and the protocol server responds with a **RemoveUserFromSiteSoapOut** response message (section [3.1.4.39.1.2](#)) in the following sequence:

1. If the user with the specified login name was never added to the site collection, the server MUST return a SOAP fault with the error code 0x80004005.
2. If the specified login name is invalid, the server MUST return a SOAP fault with the error code 0x81020054.
3. Otherwise, the server MUST remove the user from the site collection<21> and from all groups (2) and role definitions assigned to this site collection, and MUST respond with a **RemoveUserFromSiteSoapOut** response message.

### 3.1.4.39.1 Messages

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

Message	Description
<b>RemoveUserFromSiteSoapIn</b>	A request to initiate a <b>RemoveUserFromSite</b> operation on the protocol server.
<b>RemoveUserFromSiteSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserFromSite</b> operation.

#### 3.1.4.39.1.1 RemoveUserFromSiteSoapIn

This message is the request of the **RemoveUserFromSite** operation (section [3.1.4.39](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromSite
```

The SOAP body contains a **RemoveUserFromSite** element, as specified in section [3.1.4.39.2.1](#).

#### 3.1.4.39.1.2 RemoveUserFromSiteSoapOut

This message is the response of the **RemoveUserFromSite** operation (section [3.1.4.39](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromSite
```

The SOAP body contains a **RemoveUserFromSiteResponse** element, as specified in section [3.1.4.39.2.2](#).

### 3.1.4.39.2 Elements

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

Element	Description
<b>RemoveUserFromSite</b>	Body of the <b>RemoveUserFromSiteSoapIn</b> message.

Element	Description
<b>RemoveUserFromSiteResponse</b>	Body of the <b>RemoveUserFromSiteSoapOut</b> message.

### 3.1.4.39.2.1 RemoveUserFromSite

This element specifies details for the request to remove the specified user from the current site collection.

```
<s:element name="RemoveUserFromSite">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

### 3.1.4.39.2.2 RemoveUserFromSiteResponse

This element contains the response to the request to remove the specified user from the current site collection.

```
<s:element name="RemoveUserFromSiteResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.39.3 Complex Types

None.

### 3.1.4.39.4 Simple Types

None.

### 3.1.4.39.5 Attributes

None.

### 3.1.4.39.6 Groups

None.

### 3.1.4.39.7 Attribute Groups

None.

### 3.1.4.40 RemoveUserFromWeb

This operation is used to remove the specified user from the current site (2).

```

<wsdl:operation name="RemoveUserFromWeb">
  <wsdl:input message="RemoveUserFromWebSoapIn" />
  <wsdl:output message="RemoveUserFromWebSoapOut" />
</wsdl:operation>

```

The protocol client sends a **RemoveUserFromWebSoapIn** request message (section [3.1.4.40.1.1](#)), and the protocol server responds with a **RemoveUserFromWebSoapOut** response message (section [3.1.4.40.1.2](#)) in the following sequence:

1. If the user with the specified login name does not exist in the site collection, the server MUST return a SOAP fault with the error code 0x81020054. Otherwise, there is no error reported if the user has already been removed from the site (2) or is not a member of the site (2).
2. Otherwise, the server MUST remove the user from the site (2) and from all role definitions assigned to this user at the site (2), and MUST respond with a **RemoveUserFromWebSoapOut** response message.

### 3.1.4.40.1 Messages

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

Message	Description
<b>RemoveUserFromWebSoapIn</b>	A request to initiate a <b>RemoveUserFromWeb</b> operation on the protocol server.
<b>RemoveUserFromWebSoapOut</b>	A response from the protocol server at completion of the <b>RemoveUserFromWeb</b> operation.

#### 3.1.4.40.1.1 RemoveUserFromWebSoapIn

This message is the request of the **RemoveUserFromWeb** operation (section [3.1.4.40](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromWeb
```

The SOAP body contains a **RemoveUserFromWeb** element, as specified in section [3.1.4.40.2.1](#).

#### 3.1.4.40.1.2 RemoveUserFromWebSoapOut

This message is the response of the **RemoveUserFromWeb** operation (section [3.1.4.40](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromWeb
```

The SOAP body contains a **RemoveUserFromWebResponse** element, as specified in section [3.1.4.40.2.2](#).

### 3.1.4.40.2 Elements

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

Element	Description
<b>RemoveUserFromWeb</b>	Body of the <b>RemoveUserFromWebSoapIn</b> message.
<b>RemoveUserFromWebResponse</b>	Body of the <b>RemoveUserFromWebSoapOut</b> message.

#### 3.1.4.40.2.1 RemoveUserFromWeb

This element specifies details for the request to remove the specified user from the current site (2).

```
<s:element name="RemoveUserFromWeb">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

**userLoginName:** The login name of the user. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

#### 3.1.4.40.2.2 RemoveUserFromWebResponse

This element contains the response to the request to remove the specified user from the current site (2).

```
<s:element name="RemoveUserFromWebResponse">
  <s:complexType/>
</s:element>
```

#### 3.1.4.40.3 Complex Types

None.

#### 3.1.4.40.4 Simple Types

None.

#### 3.1.4.40.5 Attributes

None.

#### 3.1.4.40.6 Groups

None.

### 3.1.4.40.7 Attribute Groupos

None.

### 3.1.4.41 UpdateGroupInfo

This operation is used to update the information about a specified group (2).

```
<wsdl:operation name="UpdateGroupInfo">
  <wsdl:input message="UpdateGroupInfoSoapIn" />
  <wsdl:output message="UpdateGroupInfoSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateGroupInfoSoapIn** request message (section [3.1.4.41.1.1](#)), and the protocol server responds with an **UpdateGroupInfoSoapOut** response message (section [3.1.4.41.1.2](#)) in the following sequence:

1. If the group name or the old group name contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x80131600.
2. If the value specified in **ownerType** is "group" and no group (2) with the name specified in **ownerIdentifier** exists on the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
3. If the value specified in **ownerType** is "group" and the group (2) is a domain group, the server MUST return a SOAP fault with the error code 0x80131600.
4. If the value specified in **ownerType** is "user" and the user with the name specified in **ownerIdentifier** does not exist in the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
5. If the group (2) with the name specified in **oldGroupName** cannot be found on the current site collection, the server MUST return a SOAP fault with the error code 0x80131600.
6. If the name specified in **oldGroupName** is "Farm Administrators" (case insensitive), the server MUST return a SOAP fault.
7. If a group with the name specified in **groupName** already exists on the current site collection, the server SHOULD [<22>](#) return a SOAP fault with the error code 0x80131904.
8. Otherwise, the server MUST update the information about the group (2) and MUST respond with an **UpdateGroupInfoSoapOut** response message.

#### 3.1.4.41.1 Messages

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

Message	Description
<b>UpdateGroupInfoSoapIn</b>	A request to initiate a <b>UpdateGroupInfo</b> operation on the protocol server.
<b>UpdateGroupInfoSoapOut</b>	A response from the protocol server at completion of the <b>UpdateGroupInfo</b> operation.



### 3.1.4.41.1.1 UpdateGroupInfoSoapIn

This message is the request of the **UpdateGroupInfo** operation (section [3.1.4.41](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateGroupInfo
```

The SOAP body contains an **UpdateGroupInfo** element, as specified in section [3.1.4.41.2.1](#).

### 3.1.4.41.1.2 UpdateGroupInfoSoapOut

This message is the response of the **UpdateGroupInfo** operation (section [3.1.4.41](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateGroupInfo
```

The SOAP body contains an **UpdateGroupInfoResponse** element, as specified in section [3.1.4.41.2.2](#).

### 3.1.4.41.2 Elements

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

Element	Description
<b>UpdateGroupInfo</b>	Body of the <b>UpdateGroupInfoSoapIn</b> message.
<b>UpdateGroupInfoResponse</b>	Body of the <b>UpdateGroupInfoSoapOut</b> message.

### 3.1.4.41.2.1 UpdateGroupInfo

This element specifies details for the request to update the information about a specified group (2).

```
<s:element name="UpdateGroupInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="oldGroupName" type="tns:String255Type" />
      <s:element name="groupName" type="tns:String255Type" />
      <s:element name="ownerIdentifier" type="s:string" />
      <s:element name="ownerType" type="tns:PrincipalType" />
      <s:element name="description" type="tns:String512OrEmptyType" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**oldGroupName:** The old name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**groupName:** The new name of the group (2). The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**ownerIdentifier:** The new owner identifier of the group (2). It MUST NOT be empty. If the **ownerType** is "user", it MUST contain a valid login name recognized by the protocol server, and it MUST NOT contain more than 251 characters. If the **ownerType** is "group", this field MUST be the name of a group (2), and it MUST NOT contain more than 255 characters.

**ownerType:** The type of the new owner of the group (2).

**description:** The new description of the group (2). The specified value MUST NOT contain more than 512 characters. An empty string is allowed.

### 3.1.4.41.2.2 UpdateGroupInfoResponse

This element contains the response to the request to update the information of a specified group (2).

```
<s:element name="UpdateGroupInfoResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.41.3 Complex Types

None.

### 3.1.4.41.4 Simple Types

None.

### 3.1.4.41.5 Attributes

None.

### 3.1.4.41.6 Groups

None.

### 3.1.4.41.7 Attribute Groups

None.

### 3.1.4.42 UpdateRoleDefInfo

This operation is used to update a role definition with the specified information [<23>](#).

```
<wsdl:operation name="UpdateRoleDefInfo">
  <wsdl:input message="UpdateRoleDefInfoSoapIn" />
  <wsdl:output message="UpdateRoleDefInfoSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateRoleDefInfoSoapIn** request message (section [3.1.4.42.1.1](#)), and the protocol server responds with an **UpdateRoleDefInfoSoapOut** response message (section [3.1.4.42.1.2](#)) in the following sequence:

1. If the role definition contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x8102004f.
2. If the role definition specified by **oldRoleName** cannot be found on the current site (2), the server MUST return a SOAP fault with the error code 0x80131600.
3. If a role definition with the name specified in **roleName** already exists on the current site collection, the server MUST return a SOAP fault with the error code 0x81020043.
4. If this operation is called on a subsite, the server MUST return a SOAP fault.
5. Otherwise, the server MUST update the role definition and MUST respond with an **UpdateRoleDefInfoSoapOut** response message.

### 3.1.4.42.1 Messages

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

Message	Description
<b>UpdateRoleDefInfoSoapIn</b>	A request to initiate a <b>UpdateRoleDefInfo</b> operation on the protocol server.
<b>UpdateRoleDefInfoSoapOut</b>	A response from the protocol server at completion of the <b>UpdateRoleDefInfo</b> operation.

#### 3.1.4.42.1.1 UpdateRoleDefInfoSoapIn

This message is the request of the **UpdateRoleDefInfo** operation (section [3.1.4.42](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleDefInfo
```

The SOAP body contains an **UpdateRoleDefInfo** element, as specified in section [3.1.4.42.2.1](#).

#### 3.1.4.42.1.2 UpdateRoleDefInfoSoapOut

This message is the response of the **UpdateRoleDefInfo** operation (section [3.1.4.42](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleDefInfo
```

The SOAP body contains an **UpdateRoleDefInfoResponse** element, as specified in section [3.1.4.42.2.2](#).

### 3.1.4.42.2 Elements

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

Element	Description
<b>UpdateRoleDefInfo</b>	Body of the <b>UpdateRoleDefInfoSoapIn</b> message.
<b>UpdateRoleDefInfoResponse</b>	Body of the <b>UpdateRoleDefInfoSoapOut</b> message.

### 3.1.4.42.2.1 UpdateRoleDefInfo

This element specifies details for the request to update a role definition with the specified information.

```
<s:element name="UpdateRoleDefInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="oldRoleName" type="tns:String255Type" />
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="permissionMask" type="s:unsignedLong" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**oldRoleName:** The old name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**roleName:** The new name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**description:** The new description of the role definition. The specified value MUST NOT contain more than 512 characters. An empty string value is allowed.

**permissionMask:** A 64-bit unsigned integer that represents the new permissions of the role definition. The type of this field is specified in [\[MS-WSSFO2\]](#) section 2.2.2.13.

### 3.1.4.42.2.2 UpdateRoleDefInfoResponse

This element contains the response to the request to update a role definition with the specified information.

```
<s:element name="UpdateRoleDefInfoResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.42.3 Complex Types

None.

### 3.1.4.42.4 Simple Types

None.

### 3.1.4.42.5 Attributes

None.

### 3.1.4.42.6 Groups

None.

### 3.1.4.42.7 Attribute Groups

### 3.1.4.43 UpdateRoleInfo

This operation is used to update a role definition with the specified information.

```
<wsdl:operation name="UpdateRoleInfo">
  <wsdl:input message="UpdateRoleInfoSoapIn" />
  <wsdl:output message="UpdateRoleInfoSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateRoleInfoSoapIn** request message (section [3.1.4.43.1.1](#)), and the protocol server responds with an **UpdateRoleInfoSoapOut** response message (section [3.1.4.43.1.2](#)) in the following sequence:

1. If the role definition contains any special characters (" / \ [ ] : | < > + = ; , ? \* ' @), the server MUST return a SOAP fault with the error code 0x8102004f.
2. If the role definition specified by **oldRoleName** cannot be found on the current site(2), the server MUST return a SOAP fault with the error code 0x80131600.
3. If a role definition with the name specified in **roleName** already exists on the current site collection, the server MUST return a SOAP fault with the error code 0x81020043.
4. If this operation is called on a subsite, the server MUST return a SOAP fault.
5. Otherwise, the server MUST update the role definition with the specified information and MUST respond with an **UpdateRoleInfoSoapOut** response message.

#### 3.1.4.43.1 Messages

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

Message	Description
<b>UpdateRoleInfoSoapIn</b>	A request to initiate a <b>UpdateRoleInfo</b> operation on the protocol server.
<b>UpdateRoleInfoSoapOut</b>	A response from the protocol server at completion of the <b>UpdateRoleInfo</b> operation.

#### 3.1.4.43.1.1 UpdateRoleInfoSoapIn

This message is the request of the **UpdateRoleInfo** operation (section [3.1.4.43](#)).

The SOAP action value of the message is defined as:

<http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleInfo>

The SOAP body contains an **UpdateRoleInfo** element, as specified in section [3.1.4.43.2.1](#).

### 3.1.4.43.1.2 UpdateRoleInfoSoapOut

This message is the response of the **UpdateRoleInfo** operation (section [3.1.4.43](#)).

The SOAP action value of the message is defined as:

<http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleInfo>

The SOAP body contains an **UpdateRoleInfoResponse** element, as specified in section [3.1.4.43.2.2](#).

### 3.1.4.43.2 Elements

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

Element	Description
<b>UpdateRoleInfo</b>	Body of the <b>UpdateRoleInfoSoapIn</b> message.
<b>UpdateRoleInfoResponse</b>	Body of the <b>UpdateRoleInfoSoapOut</b> message.

#### 3.1.4.43.2.1 UpdateRoleInfo

This element specifies details for the request to update a role definition with the specified information [<24>](#).

```
<s:element name="UpdateRoleInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="oldRoleName" type="tns:String255Type" />
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
      <s:element name="permissionMask" type="s:int" />
    </s:sequence>
  </s:complexType>
</s:element>
```

**oldRoleName:** The old name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**roleName:** The new name of the role definition. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.

**description:** The new description of the role definition. The specified value MUST NOT contain more than 512 characters. An empty string is allowed.

**permissionMask:** A 32-bit integer that specifies the new permissions of the role definition. The type of this field is specified in [\[MS-WSSFO2\]](#) section 2.2.2.13.

### 3.1.4.43.2 UpdateRoleInfoResponse

This element contains the response to the request to update a role definition with the specified information.

```
<s:element name="UpdateRoleInfoResponse">
  <s:complexType/>
</s:element>
```

### 3.1.4.43.3 Complex Types

None.

### 3.1.4.43.4 Simple Types

None.

### 3.1.4.43.5 Attributes

None.

### 3.1.4.43.6 Groups

None.

### 3.1.4.43.7 Attribute Groups

None.

### 3.1.4.44 UpdateUserInfo

This operation is used to update information about the specified user.

```
<wsdl:operation name="UpdateUserInfo">
  <wsdl:input message="UpdateUserInfoSoapIn" />
  <wsdl:output message="UpdateUserInfoSoapOut" />
</wsdl:operation>
```

The protocol client sends an **UpdateUserInfoSoapIn** request message (section [3.1.4.44.1.1](#)), and the protocol server responds with an **UpdateUserInfoSoapOut** response message (section [3.1.4.44.1.2](#)) in the following sequence:

1. If a user with the specified login name does not exist, the server MUST return a SOAP fault with the error code 0x80131600.
2. Otherwise, the server MUST update information about the user and MUST respond with an **UpdateUserInfoSoapOut** response message.

### 3.1.4.44.1 Messages

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

Message	Description
<b>UpdateUserInfoSoapIn</b>	A request to initiate a <b>UpdateUserInfo</b> operation on the protocol server.
<b>UpdateUserInfoSoapOut</b>	A response from the protocol server at completion of the <b>UpdateUserInfo</b> operation.

#### 3.1.4.44.1.1 UpdateUserInfoSoapIn

This message is the request of the **UpdateUserInfo** operation (section [3.1.4.44](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateUserInfo
```

The SOAP body contains an **UpdateUserInfo** element, as specified in section [3.1.4.44.2.1](#).

#### 3.1.4.44.1.2 UpdateUserInfoSoapOut

This message is the response of the **UpdateUserInfo** operation (section [3.1.4.44](#)).

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/directory/UpdateUserInfo
```

The SOAP body contains an **UpdateUserInfoResponse** element, as specified in section [3.1.4.44.2.2](#).

### 3.1.4.44.2 Elements

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

Element	Description
<b>UpdateUserInfo</b>	Body of the <b>UpdateUserInfoSoapIn</b> message.
<b>UpdateUserInfoResponse</b>	Body of the <b>UpdateUserInfoSoapOut</b> message.

#### 3.1.4.44.2.1 UpdateUserInfo

This element specifies details for the request to update information about the specified user.

```
<s:element name="UpdateUserInfo">  
  <s:complexType>  
    <s:sequence>  
      <s:element name="userLoginName" type="tns:String251Type" />  
      <s:element name="userName" type="tns:String255Type" />  
    </s:sequence>  
  </s:complexType>  
</s:element>
```



```
<s:element name="userEmail" type="tns:String255OrEmptyType" />
<s:element name="userNotes" type="tns:String1023OrEmptyType" />
</s:sequence>
</s:complexType>
</s:element>
```

**userLoginName:** The login name of the user whose information is updated. The specified value MUST NOT contain more than 251 characters, and MUST NOT be empty.

**userName:** The new display name of the user. The specified value MUST contain less than 256 characters, and MUST NOT be empty.

**userEmail:** A string that specifies the new e-mail address of the user. The specified value MUST contain less than 256 characters. An empty string is allowed.

**userNotes:** A string containing additional information about the user. The specified value MUST NOT contain more than 1,023 characters. An empty string is allowed.

#### 3.1.4.44.2 UpdateUserInfoResponse

This element contains the response to the request to update information for the specified user.

```
<s:element name="UpdateUserInfoResponse">
  <s:complexType/>
</s:element>
```

#### 3.1.4.44.3 Complex Types

None.

#### 3.1.4.44.4 Simple Types

None.

#### 3.1.4.44.5 Attributes

None.

#### 3.1.4.44.6 Groups

None.

#### 3.1.4.44.7 Attribute Groups

None.

#### 3.1.5 Timer Events

None.

#### 3.1.6 Other Local Events

None.

## 4 Protocol Examples

### 4.1 Add Users, Groups, and Role Definitions

The following example demonstrates the protocol client requests and protocol server responses that are used in this protocol to create the groups (2) and role definitions for a user to access a site (2). The example consists of four operations:

- Create a group.
- Create a role definition that can access a site.
- Add the new group to the new role definition.
- Add the specified user to the new group.

1. The protocol client sends an **AddGroup** request (see section [3.1.4.1.1.1](#)) to create the group.

```
<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>
    <AddGroup
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <groupName>SampleGroup</groupName>
      <ownerIdentifier>contoso\mark</ownerIdentifier>
      <ownerType>user</ownerType>
      <defaultUserLoginName>contoso\mark</defaultUserLoginName>
      <description>Sample Group</description>
    </AddGroup>
  </soap:Body>
</soap:Envelope>
```

2. The protocol server adds the group and responds as follows.

```
<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>
    <AddGroupResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>
```

3. The protocol client sends an **AddRole** request (see section [3.1.4.3.1.1](#)) to create the role definition. The new role definition includes permissions to open a site, **list (1)**, or **folder**.

```
<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>
    <AddRole
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <roleName>OpenWeb</roleName>
      <description>Open a site, list, or folder</description>
    </AddRole>
  </soap:Body>
</soap:Envelope>
```

```
    <permissionMask>65536</permissionMask>
  </AddRole>
</soap:Body>
</soap:Envelope>
```

4. The protocol server adds the new role definition and responds as follows.

```
<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>
    <AddRoleResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>
```

5. The protocol client sends an **AddGroupToRole** request (see section [3.1.4.2.1.1](#)) to add the group to the role definition.

```
<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>
    <AddGroupToRole
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <roleName>OpenWeb</roleName>
      <groupName>SampleGroup</groupName>
    </AddGroupToRole>
  </soap:Body>
</soap:Envelope>
```

6. The protocol server adds the group to the role definition and responds as follows.

```
<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>
    <AddGroupToRoleResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>
```

7. The protocol client sends an **AddUserToGroup** request (see section [3.1.4.7.1.1](#)) to add the user to the group.

```
<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>
    <AddUserToGroup
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <groupName>SampleGroup</groupName>
      <userName>Andy Jacobs</userName>
      <userLoginName>contoso\andy</userLoginName>
    </AddUserToGroup>
  </soap:Body>
</soap:Envelope>
```

```

        <userEmail>andy@contoso.com</userEmail>
        <userNotes />
    </AddUserToGroup>
</soap:Body>
</soap:Envelope>
The protocol server adds the user to the group and responds as follows:
<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>
    <AddUserToGroupResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>

```

## 4.2 Retrieve and Update User Information

The following example demonstrates the protocol client requests and protocol server responses that are used in this protocol to get information about the users in the current site (2) and update the information about one user. The example consists of two operations:

- Get all user information from the current site.
  - Update the information about a user.
1. The protocol client sends a **GetUserCollectionFromWeb** request (see section [3.1.4.28.1.1](#)) to get information about the users in the current site.

```

<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>
    <GetUserCollectionFromWeb
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>

```

2. The protocol server sends a **GetUserCollectionFromWeb** response ( see section [3.1.4.28.1.2](#)) with the information about the users in the current site as follows.

```

<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>
    <GetUserCollectionFromWebResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
    <GetUserCollectionFromWebResult>
      <GetUserCollectionFromWeb>
        <Users>
          <User ID="1" Sid="S-1-5-21-2127521184-1604012920-1887927527-
            3500199" Name="Rachel Valdez" LoginName="contoso\rachel"
            Email="rachel@contoso.com" Notes="" IsSiteAdmin="True"
            IsDomainGroup="False" />
          <User ID="17" Sid="S-1-5-21-2127521184-1604012920-1887927527-
            2895802" Name="Neil Black" LoginName="contoso\neil"
            Email="neil@consoto.com" Notes="some notes"

```

```

        IsSiteAdmin="False" IsDomainGroup="False" />
    </Users>
</GetUserCollectionFromWeb>
</GetUserCollectionFromWebResult>
</GetUserCollectionFromWebResponse>
</soap:Body>
</soap:Envelope>

```

3. The protocol client sends an **UpdateUserInfo** request (see section [3.1.4.44.1.1](#)) to update the information of a specified user.

```

<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>
    <UpdateUserInfo
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <userLoginName>consoso\todd</userLoginName>
      <userName>Todd Rowe</userName>
      <userEmail>todd@contoso.com</userEmail>
      <userNotes>updated user info</userNotes>
    </UpdateUserInfo>
  </soap:Body>
</soap:Envelope>

```

4. The protocol server updates the information of the specified user and sends an **UpdateUserInfo** response (see section [3.1.4.44.1.2](#)) as follows.

```

<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>
    <UpdateUserInfoResponse
      xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>

```

### 4.3 Remove Groups and Users from a Group

The following example demonstrates the protocol client requests and protocol server responses that are used in this protocol to remove a collection of users from a specified group (2) and remove a specified group. The example consists of two operations:

- Remove a collection of users from a specified group.
- Remove a specified group.

1. The protocol client sends a **RemoveUserCollectionFromGroup** request (see section [3.1.4.34.1.1](#)) to remove a collection of users from a specified group.

```

<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>

```

```

<RemoveUserCollectionFromGroup
xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
  <groupName>SampleGroup</groupName>
  <userLoginNamesXml>
    <Users>
      <User LoginName="contoso\tony" />
      <User LoginName="contoso\alex" />
    </Users>
  </userLoginNamesXml>
</RemoveUserCollectionFromGroup>
</soap:Body>
</soap:Envelope>

```

2. The protocol server removes the specified users from the specified group and sends a **RemoveUserCollectionFromGroup** response (see section [3.1.4.34.1.2](#)) as follows.

```

<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>
    <RemoveUserCollectionFromGroupResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>

```

3. The protocol client sends a **RemoveGroup** request (see section [3.1.4.31.1.1](#)) to remove a specified group.

```

<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>
    <RemoveGroup
xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <groupName>SampleGroup</groupName>
    </RemoveGroup>
  </soap:Body>
</soap:Envelope>

```

4. The protocol server removes the specified group and sends a **RemoveGroup** response (see section [3.1.4.31.1.2](#)) as follows:

```

<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>
    <RemoveGroupResponse
xmlns="http://schemas.microsoft.com/sharepoint/soap/directory/" />
  </soap:Body>
</soap:Envelope>

```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

Preliminary

## 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:tns="http://schemas.microsoft.com/sharepoint/soap/directory/"
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://schemas.microsoft.com/sharepoint/soap/directory/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/directory/">
      <s:import namespace="http://www.w3.org/2001/XMLSchema" />
      <s:simpleType name="TrueFalseType">
        <s:restriction base="s:string">
          <s:enumeration value="True"/>
          <s:enumeration value="False"/>
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="PrincipalType">
        <s:restriction base="s:string">
          <s:enumeration value="user"/>
          <s:enumeration value="group"/>
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="String255Type">
        <s:restriction base="s:string">
          <s:minLength value="1" />
          <s:maxLength value="255" />
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="String255OrEmptyType">
        <s:restriction base="s:string">
          <s:minLength value="0" />
          <s:maxLength value="255" />
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="String251Type">
        <s:restriction base="s:string">
          <s:minLength value="1" />
          <s:maxLength value="251" />
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="String512OrEmptyType">
        <s:restriction base="s:string">
          <s:minLength value="0" />
          <s:maxLength value="512" />
        </s:restriction>
      </s:simpleType>
      <s:simpleType name="String1023OrEmptyType">
        <s:restriction base="s:string">
          <s:minLength value="0" />
          <s:maxLength value="1023" />
        </s:restriction>
      </s:simpleType>
      <s:complexType name="RolesInputType">
        <s:sequence>
          <s:element name="Roles" minOccurs="1" maxOccurs="1">
            <s:complexType>
              <s:sequence>
                <s:element name="Role" minOccurs="0" maxOccurs="100">

```



```

        <s:complexType>
            <s:attribute name="RoleName" type="tns:String255Type" />
        </s:complexType>
    </s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:sequence>
</s:complexType>
    <s:complexType name="RoleOutputType">
        <s:sequence>
            <s:element name="GetRoleInfo" minOccurs="1" maxOccurs="1">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Role" minOccurs="1" maxOccurs="1">
                            <s:complexType>
                                <s:attribute name="ID" type="s:positiveInteger" use="required" />
                                <s:attribute name="Name" type="s:string" use="required" />
                                <s:attribute name="Description" type="s:string" use="required" />
                                <s:attribute name="Type" type="s:nonNegativeInteger" use="required" />
                            </s:complexType>
                        </s:element>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:complexType name="RolesOutputTextType">
    <s:sequence>
        <s:element name="Roles">
            <s:complexType>
                <s:sequence>
                    <s:element name="Role" minOccurs="0" maxOccurs="unbounded">
                        <s:complexType>
                            <s:attribute name="ID" type="s:positiveInteger" use="required" />
                            <s:attribute name="Name" type="tns:String255OrEmptyType" use="required" />
                            <s:attribute name="Description" type="tns:String255OrEmptyType" use="required" />
                            <s:attribute name="Order" type="s:nonNegativeInteger" use="required" />
                            <s:attribute name="Hidden" type="tns:TrueFalseType" use="required" />
                            <s:attribute name="Type" type="s:string" use="required" />
                            <s:attribute name="BasePermissions" type="s:string" use="required" />
                        </s:complexType>
                    </s:element>
                </s:sequence>
            </s:complexType>
        </s:element>
    </s:sequence>
</s:complexType>
</s:complexType name="RolesOutputMaskType">
    <s:sequence>
        <s:element name="Role" minOccurs="0" maxOccurs="unbounded">
            <s:complexType>
                <s:attribute name="ID" type="s:positiveInteger" use="required" />
                <s:attribute name="Name" type="tns:String255Type" use="required" />
                <s:attribute name="Description" type="tns:String512OrEmptyType" use="required" />
                <s:attribute name="Hidden" type="tns:TrueFalseType" use="required" />
                <s:attribute name="Type" type="s:string" use="required" />
            </s:complexType>
        </s:element>
    </s:sequence>
</s:complexType>

```

```

        <s:attribute name="BasePermissions" type="s:unsignedLong" use="required" />
    </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
<s:complexType name="User">
    <s:attribute name="ID" type="s:unsignedInt" use="required" />
    <s:attribute name="Sid" type="s:string" use="required" />
    <s:attribute name="Name" type="tns:String255OrEmptyType" use="required" />
    <s:attribute name="LoginName" type="tns:String255OrEmptyType" use="required" />
    <s:attribute name="Email" type="tns:String255OrEmptyType" use="required" />
    <s:attribute name="Notes" type="tns:String255OrEmptyType" use="required" />
    <s:attribute name="IsSiteAdmin" type="tns:TrueFalseType" use="required" />
    <s:attribute name="IsDomainGroup" type="tns:TrueFalseType" use="required" />
    <s:attribute name="Flags" type="s:unsignedInt" use="required" />
</s:complexType>
<s:complexType name="Users">
    <s:sequence>
        <s:element minOccurs="0" maxOccurs="unbounded" name="User" type="tns:User" />
    </s:sequence>
</s:complexType>
<s:complexType name="Group">
    <s:attribute name="ID" type="s:unsignedInt" use="required" />
    <s:attribute name="Name" type="tns:String255Type" use="required" />
    <s:attribute name="Description" type="tns:String512OrEmptyType" use="required" />
    <s:attribute name="OwnerID" type="s:unsignedInt" use="required" />
    <s:attribute name="OwnerIsUser" type="tns:TrueFalseType" use="required" />
</s:complexType>
<s:complexType name="Groups">
    <s:sequence>
        <s:element minOccurs="0" maxOccurs="100" name="Group" type="tns:Group">
        </s:element>
    </s:sequence>
</s:complexType>
<s:complexType name="InputUserType">
    <s:attribute name="LoginName" type="tns:String251Type" use="required" />
    <s:attribute name="Email" type="tns:String255OrEmptyType" />
    <s:attribute name="Name" type="tns:String255OrEmptyType" />
    <s:attribute name="Notes" type="tns:String1023OrEmptyType" />
</s:complexType>
<s:complexType name="InputUsersType">
    <s:sequence>
        <s:element minOccurs="0" maxOccurs="100" name="User" type="tns:InputUserType"/>
    </s:sequence>
</s:complexType>
<s:complexType name="GroupsInputType">
    <s:sequence>
        <s:element name="Groups">
            <s:complexType>
                <s:sequence>
                    <s:element name="Group" minOccurs="0" maxOccurs="100">
                        <s:complexType>
                            <s:attribute name="GroupName" type="tns:String255Type" />
                        </s:complexType>
                    </s:element>
                </s:sequence>
            </s:complexType>
        </s:element>
    </s:sequence>
</s:complexType>

```

```

</s:complexType>
<s:complexType name="EmailsInputType">
  <s:sequence>
    <s:element name="Users">
      <s:complexType>
        <s:sequence>
          <s:element name="User" minOccurs="0" maxOccurs="100">
            <s:complexType>
              <s:attribute name="Email" type="tns:String255Type" />
            </s:complexType>
          </s:element>
        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
<s:complexType name="EmailsOutputType">
  <s:sequence>
    <s:element name="User" minOccurs="0" maxOccurs="100" >
      <s:complexType>
        <s:attribute name="Login" type="s:string" />
        <s:attribute name="Email" type="s:string" />
        <s:attribute name="DisplayName" type="s:string" />
        <s:attribute name="SiteUser">
          <s:simpleType>
            <s:restriction base="s:nonNegativeInteger">
              <s:enumeration value="0" />
              <s:enumeration value="1" />
            </s:restriction>
          </s:simpleType>
        </s:attribute>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
<s:element name="GetUserCollectionFromSite">
  <s:complexType />
</s:element>
<s:element name="GetUserCollectionFromSiteResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromSiteResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromSite">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollectionFromWeb">
  <s:complexType />

```

```

</s:element>
<s:element name="GetUserCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromWeb">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetAllUserCollectionFromWeb">
  <s:complexType />
</s:element>
<s:element name="GetAllUserCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetAllUserCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetAllUserCollectionFromWeb">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollectionFromGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollectionFromGroupResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromGroupResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromGroup">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

```

        </s:sequence>
      </s:complexType>
    </s:element>
  </s:sequence>
</s:complexType>
</s:element>
<s:element name="GetUserCollectionFromRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollectionFromRoleResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionFromRoleResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollectionFromRole">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollection">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginNamesXml">
        <s:complexType>
          <s:sequence>
            <s:element name="Users" type="tns:InputUsersType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserCollectionResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserCollectionResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserCollection">
              <s:complexType>
                <s:sequence>
                  <s:element name="Users" type="tns:Users" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

```

        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
<s:element name="GetUserInfo">
  <s:complexType>
    <s:sequence>
      <s:element name="userLoginName" type="tns:String251Type" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserInfoResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserInfoResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserInfo">
              <s:complexType>
                <s:sequence>
                  <s:element name="User" type="tns:User" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
<s:element name="GetCurrentUserInfo">
  <s:complexType/>
</s:element>
<s:element name="GetCurrentUserInfoResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetCurrentUserInfoResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserInfo">
              <s:complexType>
                <s:sequence>
                  <s:element name="User" type="tns:User" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
<s:element name="AddUserToGroup">
  <s:complexType>
    <s:sequence>

```

```

        <s:element name="groupName" type="tns:String255Type" />
        <s:element name="userName" type="tns:String255OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="userLoginName" type="tns:String251Type" />
        <s:element name="userEmail" type="tns:String255OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="userNotes" type="tns:String1023OrEmptyType" maxOccurs="1"
minOccurs="0"/>
    </s:sequence>
</s:complexType>
</s:element>
<s:element name="AddUserToGroupResponse">
    <s:complexType />
</s:element>
<s:element name="AddUserCollectionToGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="groupName" type="tns:String255Type" />
            <s:element name="usersInfoXml">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Users" type="tns:InputUsersType" />
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddUserCollectionToGroupResponse">
    <s:complexType />
</s:element>
<s:element name="AddUserToRole">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type"/>
            <s:element name="userName" type="tns:String255Type" minOccurs="0" maxOccurs="1"
/>
            <s:element name="userLoginName" type="tns:String251Type" />
            <s:element name="userEmail" type="tns:String255Type" minOccurs="0" maxOccurs="1"
/>
            <s:element name="userNotes" type="tns:String1023OrEmptyType" minOccurs="0"
maxOccurs="1" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddUserToRoleResponse">
    <s:complexType />
</s:element>
<s:element name="AddUserCollectionToRole">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type" />
            <s:element name="usersInfoXml">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Users" type="tns:InputUsersType" />
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>

```

```

        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddUserCollectionToRoleResponse">
    <s:complexType />
</s:element>
<s:element name="UpdateUserInfo">
    <s:complexType>
        <s:sequence>
            <s:element name="userLoginName" type="tns:String251Type" />
            <s:element name="userName" type="tns:String255Type" />
            <s:element name="userEmail" type="tns:String255OrEmptyType" />
            <s:element name="userNotes" type="tns:String1023OrEmptyType" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="UpdateUserInfoResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserFromSite">
    <s:complexType>
        <s:sequence>
            <s:element name="userLoginName" type="tns:String251Type"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserFromSiteResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserCollectionFromSite">
    <s:complexType>
        <s:sequence>
            <s:element name="userLoginNamesXml">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Users" type="tns:InputUsersType"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserCollectionFromSiteResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserFromWeb">
    <s:complexType>
        <s:sequence>
            <s:element name="userLoginName" type="tns:String251Type"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserFromWebResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserFromGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="groupName" type="tns:String255Type"/>
        </s:sequence>
    </s:complexType>
</s:element>

```



```

        <s:element name="userLoginName" type="tns:String251Type"/>
    </s:sequence>
</s:complexType>
</s:element>
<s:element name="RemoveUserFromGroupResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserCollectionFromGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="groupName" type="tns:String255Type"/>
            <s:element name="userLoginNamesXml">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Users" type="tns:InputUsersType"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserCollectionFromGroupResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserFromRole">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type"/>
            <s:element name="userLoginName" type="tns:String251Type"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserFromRoleResponse">
    <s:complexType />
</s:element>
<s:element name="RemoveUserCollectionFromRole">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type"/>
            <s:element name="userLoginNamesXml">
                <s:complexType>
                    <s:sequence>
                        <s:element name="Users" type="tns:InputUsersType"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="RemoveUserCollectionFromRoleResponse">
    <s:complexType />
</s:element>
<s:element name="GetGroupCollectionFromSite">
    <s:complexType />
</s:element>
<s:element name="GetGroupCollectionFromSiteResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="GetGroupCollectionFromSiteResult">

```

```

    <s:complexType>
      <s:sequence>
        <s:element name="GetGroupCollectionFromSite">
          <s:complexType>
            <s:sequence>
              <s:element name="Groups" type="tns:Groups" />
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionFromWeb">
    <s:complexType />
  </s:element>
  <s:element name="GetGroupCollectionFromWebResponse">
    <s:complexType>
      <s:sequence>
        <s:element name="GetGroupCollectionFromWebResult">
          <s:complexType>
            <s:sequence>
              <s:element name="GetGroupCollectionFromWeb">
                <s:complexType>
                  <s:sequence>
                    <s:element name="Groups" type="tns:Groups" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionFromRole">
    <s:complexType>
      <s:sequence>
        <s:element name="roleName" type="tns:String255Type"/>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionFromRoleResponse">
    <s:complexType>
      <s:sequence>
        <s:element name="GetGroupCollectionFromRoleResult">
          <s:complexType>
            <s:sequence>
              <s:element name="GetGroupCollectionFromRole">
                <s:complexType>
                  <s:sequence>
                    <s:element name="Groups" type="tns:Groups" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>

```

```

        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionFromUser">
    <s:complexType>
      <s:sequence>
        <s:element name="userLoginName" type="tns:String251Type"/>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionFromUserResponse">
    <s:complexType>
      <s:sequence>
        <s:element name="GetGroupCollectionFromUserResult">
          <s:complexType>
            <s:sequence>
              <s:element name="GetGroupCollectionFromUser">
                <s:complexType>
                  <s:sequence>
                    <s:element name="Groups" type="tns:Groups" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollection">
    <s:complexType>
      <s:sequence>
        <s:element name="groupNamesXml" type="tns:GroupsInputType" />
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupCollectionResponse">
    <s:complexType>
      <s:sequence>
        <s:element name="GetGroupCollectionResult">
          <s:complexType>
            <s:sequence>
              <s:element name="GetGroupCollection">
                <s:complexType>
                  <s:sequence>
                    <s:element name="Groups" type="tns:Groups" />
                  </s:sequence>
                </s:complexType>
              </s:element>
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="GetGroupInfo">
    <s:complexType>
      <s:sequence>

```

```

        <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
</s:complexType>
</s:element>
<s:element name="GetGroupInfoResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="GetGroupInfoResult" >
                <s:complexType>
                    <s:sequence>
                        <s:element name="GetGroupInfo" >
                            <s:complexType>
                                <s:sequence>
                                    <s:element name="Group" type="tns:Group" />
                                </s:sequence>
                            </s:complexType>
                        </s:element>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddGroup">
    <s:complexType>
        <s:sequence>
            <s:element name="groupName" type="tns:String255Type" />
            <s:element name="ownerIdentifier" type="s:string" />
            <s:element name="ownerType" type="tns:PrincipalType" />
            <s:element name="defaultUserLoginName" type="tns:String251Type" />
            <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddGroupResponse">
    <s:complexType />
</s:element>
<s:element name="AddGroupToRole">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type" />
            <s:element name="groupName" type="tns:String255Type" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddGroupToRoleResponse">
    <s:complexType />
</s:element>
<s:element name="UpdateGroupInfo">
    <s:complexType>
        <s:sequence>
            <s:element name="oldGroupName" type="tns:String255Type" />
            <s:element name="groupName" type="tns:String255Type" />
            <s:element name="ownerIdentifier" type="s:string" />
            <s:element name="ownerType" type="tns:PrincipalType" />
            <s:element name="description" type="tns:String512OrEmptyType" />
        </s:sequence>
    </s:complexType>

```

```

</s:element>
<s:element name="UpdateGroupInfoResponse">
  <s:complexType />
</s:element>
<s:element name="RemoveGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="RemoveGroupResponse">
  <s:complexType />
</s:element>
<s:element name="RemoveGroupFromRole">
  <s:complexType>
    <s:sequence>
      <s:element name="roleName" type="tns:String255Type" />
      <s:element name="groupName" type="tns:String255Type" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="RemoveGroupFromRoleResponse">
  <s:complexType />
</s:element>
<s:element name="GetRoleCollectionFromWeb">
  <s:complexType />
</s:element>
<s:element name="GetRoleCollectionFromWebResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionFromWebResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollectionFromWeb" type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetRoleCollectionFromGroup">
  <s:complexType>
    <s:sequence>
      <s:element name="groupName" type="tns:String255Type"/>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetRoleCollectionFromGroupResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRoleCollectionFromGroupResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetRoleCollectionFromGroup"
type="tns:RolesOutputTextType"/>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```

```

        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleCollectionFromUser">
    <s:complexType>
        <s:sequence>
            <s:element name="userLoginName" type="tns:String251Type" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleCollectionFromUserResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="GetRoleCollectionFromUserResult">
                <s:complexType>
                    <s:sequence>
                        <s:element name="GetRoleCollectionFromUser"
type="tns:RolesOutputTextType"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleCollection">
    <s:complexType>
        <s:sequence>
            <s:element name="roleNamesXml" type="tns:RolesInputType" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleCollectionResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="GetRoleCollectionResult">
                <s:complexType>
                    <s:sequence>
                        <s:element name="GetRoleCollection" type="tns:RolesOutputTextType"/>
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleInfo">
    <s:complexType>
        <s:sequence>
            <s:element name="roleName" type="tns:String255Type"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetRoleInfoResponse">
    <s:complexType>
        <s:sequence>
            <s:element name="GetRoleInfoResult" type="tns:RoleOutputType" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="AddRole">

```

```

    <s:complexType>
      <s:sequence>
        <s:element name="roleName" type="tns:String255Type" />
        <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="permissionMask" type="s:int" />
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="AddRoleResponse">
    <s:complexType />
  </s:element>
  <s:element name="AddRoleDef">
    <s:complexType>
      <s:sequence>
        <s:element name="roleName" type="tns:String255Type" />
        <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="permissionMask" type="s:unsignedLong" />
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="AddRoleDefResponse">
    <s:complexType />
  </s:element>
  <s:element name="UpdateRoleInfo">
    <s:complexType>
      <s:sequence>
        <s:element name="oldRoleName" type="tns:String255Type" />
        <s:element name="roleName" type="tns:String255Type" />
        <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="permissionMask" type="s:int" />
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="UpdateRoleInfoResponse">
    <s:complexType />
  </s:element>
  <s:element name="UpdateRoleDefInfo">
    <s:complexType>
      <s:sequence>
        <s:element name="oldRoleName" type="tns:String255Type" />
        <s:element name="roleName" type="tns:String255Type" />
        <s:element name="description" type="tns:String512OrEmptyType" maxOccurs="1"
minOccurs="0"/>
        <s:element name="permissionMask" type="s:unsignedLong" />
      </s:sequence>
    </s:complexType>
  </s:element>
  <s:element name="UpdateRoleDefInfoResponse">
    <s:complexType />
  </s:element>
  <s:element name="RemoveRole">
    <s:complexType>
      <s:sequence>
        <s:element name="roleName" type="tns:String255Type" />
      </s:sequence>
    </s:complexType>
  </s:element>

```

```

</s:element>
<s:element name="RemoveRoleResponse">
  <s:complexType />
</s:element>
<s:element name="GetUserLoginFromEmail">
  <s:complexType>
    <s:sequence>
      <s:element name="emailXml" type="tns:EmailsInputType" />
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetUserLoginFromEmailResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetUserLoginFromEmailResult">
        <s:complexType>
          <s:sequence>
            <s:element name="GetUserLoginFromEmail" type="tns:EmailsOutputType" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetRolesAndPermissionsForCurrentUser">
  <s:complexType />
</s:element>
<s:element name="GetRolesAndPermissionsForCurrentUserResponse" >
  <s:complexType>
    <s:sequence>
      <s:element name="GetRolesAndPermissionsForCurrentUserResult">
        <s:complexType>
          <s:sequence>
            <s:element name="RolesAndPermissions">
              <s:complexType>
                <s:sequence>
                  <s:element name="Permissions">
                    <s:complexType>
                      <s:attribute name="Value" type="s:unsignedLong" use="required" />
                    </s:complexType>
                  </s:element>
                  <s:element name="Roles" type="tns:RolesOutputMaskType" minOccurs="0" />
                </s:sequence>
              </s:complexType>
            </s:element>
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
<s:element name="GetRolesAndPermissionsForSite">
  <s:complexType />
</s:element>
<s:element name="GetRolesAndPermissionsForSiteResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="GetRolesAndPermissionsForSiteResult">

```



```

        <s:complexType>
            <s:sequence>
                <s:element name="Roles" type="tns:RolesOutputMaskType" />
            </s:sequence>
        </s:complexType>
    </s:element>
</s:sequence>
</s:complexType>
</s:element>
</s:schema>
</wsdl:types>
<wsdl:message name="GetUserCollectionFromSiteSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromSite" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromSiteSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromSiteResponse" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromWebSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromWeb" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromWebSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromWebResponse" />
</wsdl:message>
<wsdl:message name="GetAllUserCollectionFromWebSoapIn">
    <wsdl:part name="parameters" element="tns:GetAllUserCollectionFromWeb" />
</wsdl:message>
<wsdl:message name="GetAllUserCollectionFromWebSoapOut">
    <wsdl:part name="parameters" element="tns:GetAllUserCollectionFromWebResponse" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromGroupSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromGroup" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromGroupSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromGroupResponse" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromRoleSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromRole" />
</wsdl:message>
<wsdl:message name="GetUserCollectionFromRoleSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserCollectionFromRoleResponse" />
</wsdl:message>
<wsdl:message name="GetUserCollectionSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserCollection" />
</wsdl:message>
<wsdl:message name="GetUserCollectionSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserCollectionResponse" />
</wsdl:message>
<wsdl:message name="GetUserInfoSoapIn">
    <wsdl:part name="parameters" element="tns:GetUserInfo" />
</wsdl:message>
<wsdl:message name="GetUserInfoSoapOut">
    <wsdl:part name="parameters" element="tns:GetUserInfoResponse" />
</wsdl:message>
<wsdl:message name="GetCurrentUserInfoSoapIn">
    <wsdl:part name="parameters" element="tns:GetCurrentUserInfo" />
</wsdl:message>
<wsdl:message name="GetCurrentUserInfoSoapOut">
    <wsdl:part name="parameters" element="tns:GetCurrentUserInfoResponse" />
</wsdl:message>

```

```

<wsdl:message name="AddUserToGroupSoapIn">
  <wsdl:part name="parameters" element="tns:AddUserToGroup" />
</wsdl:message>
<wsdl:message name="AddUserToGroupSoapOut">
  <wsdl:part name="parameters" element="tns:AddUserToGroupResponse" />
</wsdl:message>
<wsdl:message name="AddUserCollectionToGroupSoapIn">
  <wsdl:part name="parameters" element="tns:AddUserCollectionToGroup" />
</wsdl:message>
<wsdl:message name="AddUserCollectionToGroupSoapOut">
  <wsdl:part name="parameters" element="tns:AddUserCollectionToGroupResponse" />
</wsdl:message>
<wsdl:message name="AddUserToRoleSoapIn">
  <wsdl:part name="parameters" element="tns:AddUserToRole" />
</wsdl:message>
<wsdl:message name="AddUserToRoleSoapOut">
  <wsdl:part name="parameters" element="tns:AddUserToRoleResponse" />
</wsdl:message>
<wsdl:message name="AddUserCollectionToRoleSoapIn">
  <wsdl:part name="parameters" element="tns:AddUserCollectionToRole" />
</wsdl:message>
<wsdl:message name="AddUserCollectionToRoleSoapOut">
  <wsdl:part name="parameters" element="tns:AddUserCollectionToRoleResponse" />
</wsdl:message>
<wsdl:message name="UpdateUserInfoSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateUserInfo" />
</wsdl:message>
<wsdl:message name="UpdateUserInfoSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateUserInfoResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserFromSiteSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserFromSite" />
</wsdl:message>
<wsdl:message name="RemoveUserFromSiteSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserFromSiteResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromSiteSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromSite" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromSiteSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromSiteResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserFromWebSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserFromWeb" />
</wsdl:message>
<wsdl:message name="RemoveUserFromWebSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserFromWebResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserFromGroupSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserFromGroup" />
</wsdl:message>
<wsdl:message name="RemoveUserFromGroupSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserFromGroupResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromGroupSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromGroup" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromGroupSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromGroupResponse" />

```

```

</wsdl:message>
<wsdl:message name="RemoveUserFromRoleSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserFromRole" />
</wsdl:message>
<wsdl:message name="RemoveUserFromRoleSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserFromRoleResponse" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromRoleSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromRole" />
</wsdl:message>
<wsdl:message name="RemoveUserCollectionFromRoleSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveUserCollectionFromRoleResponse" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromSiteSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromSite" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromSiteSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromSiteResponse" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromWebSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromWeb" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromWebSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromWebResponse" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromRoleSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromRole" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromRoleSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromRoleResponse" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromUserSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromUser" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionFromUserSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionFromUserResponse" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupCollection" />
</wsdl:message>
<wsdl:message name="GetGroupCollectionSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupCollectionResponse" />
</wsdl:message>
<wsdl:message name="GetGroupInfoSoapIn">
  <wsdl:part name="parameters" element="tns:GetGroupInfo" />
</wsdl:message>
<wsdl:message name="GetGroupInfoSoapOut">
  <wsdl:part name="parameters" element="tns:GetGroupInfoResponse" />
</wsdl:message>
<wsdl:message name="AddGroupSoapIn">
  <wsdl:part name="parameters" element="tns:AddGroup" />
</wsdl:message>
<wsdl:message name="AddGroupSoapOut">
  <wsdl:part name="parameters" element="tns:AddGroupResponse" />
</wsdl:message>
<wsdl:message name="AddGroupToRoleSoapIn">
  <wsdl:part name="parameters" element="tns:AddGroupToRole" />
</wsdl:message>
<wsdl:message name="AddGroupToRoleSoapOut">

```

```

    <wsdl:part name="parameters" element="tns:AddGroupToRoleResponse" />
</wsdl:message>
<wsdl:message name="UpdateGroupInfoSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateGroupInfo" />
</wsdl:message>
<wsdl:message name="UpdateGroupInfoSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateGroupInfoResponse" />
</wsdl:message>
<wsdl:message name="RemoveGroupSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveGroup" />
</wsdl:message>
<wsdl:message name="RemoveGroupSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveGroupResponse" />
</wsdl:message>
<wsdl:message name="RemoveGroupFromRoleSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveGroupFromRole" />
</wsdl:message>
<wsdl:message name="RemoveGroupFromRoleSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveGroupFromRoleResponse" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromWebSoapIn">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromWeb" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromWebSoapOut">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromWebResponse" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromGroupSoapIn">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromGroup" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromGroupSoapOut">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromGroupResponse" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromUserSoapIn">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromUser" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionFromUserSoapOut">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionFromUserResponse" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionSoapIn">
  <wsdl:part name="parameters" element="tns:GetRoleCollection" />
</wsdl:message>
<wsdl:message name="GetRoleCollectionSoapOut">
  <wsdl:part name="parameters" element="tns:GetRoleCollectionResponse" />
</wsdl:message>
<wsdl:message name="GetRoleInfoSoapIn">
  <wsdl:part name="parameters" element="tns:GetRoleInfo" />
</wsdl:message>
<wsdl:message name="GetRoleInfoSoapOut">
  <wsdl:part name="parameters" element="tns:GetRoleInfoResponse" />
</wsdl:message>
<wsdl:message name="AddRoleSoapIn">
  <wsdl:part name="parameters" element="tns:AddRole" />
</wsdl:message>
<wsdl:message name="AddRoleSoapOut">
  <wsdl:part name="parameters" element="tns:AddRoleResponse" />
</wsdl:message>
<wsdl:message name="AddRoleDefSoapIn">
  <wsdl:part name="parameters" element="tns:AddRoleDef" />
</wsdl:message>

```

```

<wsdl:message name="AddRoleDefSoapOut">
  <wsdl:part name="parameters" element="tns:AddRoleDefResponse" />
</wsdl:message>
<wsdl:message name="UpdateRoleInfoSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateRoleInfo" />
</wsdl:message>
<wsdl:message name="UpdateRoleInfoSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateRoleInfoResponse" />
</wsdl:message>
<wsdl:message name="UpdateRoleDefInfoSoapIn">
  <wsdl:part name="parameters" element="tns:UpdateRoleDefInfo" />
</wsdl:message>
<wsdl:message name="UpdateRoleDefInfoSoapOut">
  <wsdl:part name="parameters" element="tns:UpdateRoleDefInfoResponse" />
</wsdl:message>
<wsdl:message name="RemoveRoleSoapIn">
  <wsdl:part name="parameters" element="tns:RemoveRole" />
</wsdl:message>
<wsdl:message name="RemoveRoleSoapOut">
  <wsdl:part name="parameters" element="tns:RemoveRoleResponse" />
</wsdl:message>
<wsdl:message name="GetUserLoginFromEmailSoapIn">
  <wsdl:part name="parameters" element="tns:GetUserLoginFromEmail" />
</wsdl:message>
<wsdl:message name="GetUserLoginFromEmailSoapOut">
  <wsdl:part name="parameters" element="tns:GetUserLoginFromEmailResponse" />
</wsdl:message>
<wsdl:message name="GetRolesAndPermissionsForCurrentUserSoapIn">
  <wsdl:part name="parameters" element="tns:GetRolesAndPermissionsForCurrentUser" />
</wsdl:message>
<wsdl:message name="GetRolesAndPermissionsForCurrentUserSoapOut">
  <wsdl:part name="parameters" element="tns:GetRolesAndPermissionsForCurrentUserResponse"
/>
</wsdl:message>
<wsdl:message name="GetRolesAndPermissionsForSiteSoapIn">
  <wsdl:part name="parameters" element="tns:GetRolesAndPermissionsForSite" />
</wsdl:message>
<wsdl:message name="GetRolesAndPermissionsForSiteSoapOut">
  <wsdl:part name="parameters" element="tns:GetRolesAndPermissionsForSiteResponse" />
</wsdl:message>
<wsdl:portType name="UserGroupSoap">
  <wsdl:operation name="GetUserCollectionFromSite">
    <wsdl:input message="tns:GetUserCollectionFromSiteSoapIn" />
    <wsdl:output message="tns:GetUserCollectionFromSiteSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="GetUserCollectionFromWeb">
    <wsdl:input message="tns:GetUserCollectionFromWebSoapIn" />
    <wsdl:output message="tns:GetUserCollectionFromWebSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="GetAllUserCollectionFromWeb">
    <wsdl:input message="tns:GetAllUserCollectionFromWebSoapIn" />
    <wsdl:output message="tns:GetAllUserCollectionFromWebSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="GetUserCollectionFromGroup">
    <wsdl:input message="tns:GetUserCollectionFromGroupSoapIn" />
    <wsdl:output message="tns:GetUserCollectionFromGroupSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="GetUserCollectionFromRole">
    <wsdl:input message="tns:GetUserCollectionFromRoleSoapIn" />

```

```

    <wsdl:output message="tns:GetUserCollectionFromRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetUserCollection">
    <wsdl:input message="tns:GetUserCollectionSoapIn" />
    <wsdl:output message="tns:GetUserCollectionSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetUserInfo">
    <wsdl:input message="tns:GetUserInfoSoapIn" />
    <wsdl:output message="tns:GetUserInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetCurrentUserInfo">
    <wsdl:input message="tns:GetCurrentUserInfoSoapIn" />
    <wsdl:output message="tns:GetCurrentUserInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddUserToGroup">
    <wsdl:input message="tns:AddUserToGroupSoapIn" />
    <wsdl:output message="tns:AddUserToGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddUserCollectionToGroup">
    <wsdl:input message="tns:AddUserCollectionToGroupSoapIn" />
    <wsdl:output message="tns:AddUserCollectionToGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddUserToRole">
    <wsdl:input message="tns:AddUserToRoleSoapIn" />
    <wsdl:output message="tns:AddUserToRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddUserCollectionToRole">
    <wsdl:input message="tns:AddUserCollectionToRoleSoapIn" />
    <wsdl:output message="tns:AddUserCollectionToRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="UpdateUserInfo">
    <wsdl:input message="tns:UpdateUserInfoSoapIn" />
    <wsdl:output message="tns:UpdateUserInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserFromSite">
    <wsdl:input message="tns:RemoveUserFromSiteSoapIn" />
    <wsdl:output message="tns:RemoveUserFromSiteSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserCollectionFromSite">
    <wsdl:input message="tns:RemoveUserCollectionFromSiteSoapIn" />
    <wsdl:output message="tns:RemoveUserCollectionFromSiteSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserFromWeb">
    <wsdl:input message="tns:RemoveUserFromWebSoapIn" />
    <wsdl:output message="tns:RemoveUserFromWebSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserFromGroup">
    <wsdl:input message="tns:RemoveUserFromGroupSoapIn" />
    <wsdl:output message="tns:RemoveUserFromGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserCollectionFromGroup">
    <wsdl:input message="tns:RemoveUserCollectionFromGroupSoapIn" />
    <wsdl:output message="tns:RemoveUserCollectionFromGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserFromRole">
    <wsdl:input message="tns:RemoveUserFromRoleSoapIn" />
    <wsdl:output message="tns:RemoveUserFromRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveUserCollectionFromRole">

```

```

    <wsdl:input message="tns:RemoveUserCollectionFromRoleSoapIn" />
    <wsdl:output message="tns:RemoveUserCollectionFromRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupCollectionFromSite">
    <wsdl:input message="tns:GetGroupCollectionFromSiteSoapIn" />
    <wsdl:output message="tns:GetGroupCollectionFromSiteSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupCollectionFromWeb">
    <wsdl:input message="tns:GetGroupCollectionFromWebSoapIn" />
    <wsdl:output message="tns:GetGroupCollectionFromWebSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupCollectionFromRole">
    <wsdl:input message="tns:GetGroupCollectionFromRoleSoapIn" />
    <wsdl:output message="tns:GetGroupCollectionFromRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupCollectionFromUser">
    <wsdl:input message="tns:GetGroupCollectionFromUserSoapIn" />
    <wsdl:output message="tns:GetGroupCollectionFromUserSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupCollection">
    <wsdl:input message="tns:GetGroupCollectionSoapIn" />
    <wsdl:output message="tns:GetGroupCollectionSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetGroupInfo">
    <wsdl:input message="tns:GetGroupInfoSoapIn" />
    <wsdl:output message="tns:GetGroupInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddGroup">
    <wsdl:input message="tns:AddGroupSoapIn" />
    <wsdl:output message="tns:AddGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddGroupToRole">
    <wsdl:input message="tns:AddGroupToRoleSoapIn" />
    <wsdl:output message="tns:AddGroupToRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="UpdateGroupInfo">
    <wsdl:input message="tns:UpdateGroupInfoSoapIn" />
    <wsdl:output message="tns:UpdateGroupInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveGroup">
    <wsdl:input message="tns:RemoveGroupSoapIn" />
    <wsdl:output message="tns:RemoveGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveGroupFromRole">
    <wsdl:input message="tns:RemoveGroupFromRoleSoapIn" />
    <wsdl:output message="tns:RemoveGroupFromRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRoleCollectionFromWeb">
    <wsdl:input message="tns:GetRoleCollectionFromWebSoapIn" />
    <wsdl:output message="tns:GetRoleCollectionFromWebSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRoleCollectionFromGroup">
    <wsdl:input message="tns:GetRoleCollectionFromGroupSoapIn" />
    <wsdl:output message="tns:GetRoleCollectionFromGroupSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRoleCollectionFromUser">
    <wsdl:input message="tns:GetRoleCollectionFromUserSoapIn" />
    <wsdl:output message="tns:GetRoleCollectionFromUserSoapOut" />
</wsdl:operation>

```

```

<wsdl:operation name="GetRoleCollection">
  <wsdl:input message="tns:GetRoleCollectionSoapIn" />
  <wsdl:output message="tns:GetRoleCollectionSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRoleInfo">
  <wsdl:input message="tns:GetRoleInfoSoapIn" />
  <wsdl:output message="tns:GetRoleInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddRole">
  <wsdl:input message="tns:AddRoleSoapIn" />
  <wsdl:output message="tns:AddRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="AddRoleDef">
  <wsdl:input message="tns:AddRoleDefSoapIn" />
  <wsdl:output message="tns:AddRoleDefSoapOut" />
</wsdl:operation>
<wsdl:operation name="UpdateRoleInfo">
  <wsdl:input message="tns:UpdateRoleInfoSoapIn" />
  <wsdl:output message="tns:UpdateRoleInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="UpdateRoleDefInfo">
  <wsdl:input message="tns:UpdateRoleDefInfoSoapIn" />
  <wsdl:output message="tns:UpdateRoleDefInfoSoapOut" />
</wsdl:operation>
<wsdl:operation name="RemoveRole">
  <wsdl:input message="tns:RemoveRoleSoapIn" />
  <wsdl:output message="tns:RemoveRoleSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetUserLoginFromEmail">
  <wsdl:input message="tns:GetUserLoginFromEmailSoapIn" />
  <wsdl:output message="tns:GetUserLoginFromEmailSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRolesAndPermissionsForCurrentUser">
  <wsdl:input message="tns:GetRolesAndPermissionsForCurrentUserSoapIn" />
  <wsdl:output message="tns:GetRolesAndPermissionsForCurrentUserSoapOut" />
</wsdl:operation>
<wsdl:operation name="GetRolesAndPermissionsForSite">
  <wsdl:input message="tns:GetRolesAndPermissionsForSiteSoapIn" />
  <wsdl:output message="tns:GetRolesAndPermissionsForSiteSoapOut" />
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="UserGroupSoap" type="tns:UserGroupSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="GetUserCollectionFromSite">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromSite"
      style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetUserCollectionFromWeb">
    <soap:operation
      soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromWeb"
      style="document" />
    <wsdl:input>

```



```

        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetAllUserCollectionFromWeb">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetAllUserCollectionFromWeb"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserCollectionFromGroup">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromGroup"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserCollectionFromRole">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromRole"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserCollection">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollection"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserInfo">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>

```

```

    </wsdl:operation>
    <wsdl:operation name="GetCurrentUserInfo">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetCurrentUserInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddUserToGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToGroup"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddUserCollectionToGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToGroup"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddUserToRole">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToRole"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddUserCollectionToRole">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToRole"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateUserInfo">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateUserInfo"
style="document" />

```

```

        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUserFromSite">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromSite"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUserCollectionFromSite">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromSi
te" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUserFromWeb">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromWeb"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUserFromGroup">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromGroup"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveUserCollectionFromGroup">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromGr
oup" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
    </wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>

```

```

        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveUserFromRole">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromRole"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveUserCollectionFromRole">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromRo
le" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromSite">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromSite
" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromWeb">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromWeb"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromRole">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromRole
" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromUser">

```

```

    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromUser
" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetGroupCollection">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollection"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetGroupInfo">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddGroup">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddGroup" style="document"
/>
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddGroupToRole">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddGroupToRole"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="UpdateGroupInfo">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateGroupInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />

```

```

        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveGroup">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroup"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveGroupFromRole">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroupFromRole"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromWeb">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromWeb"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromGroup">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromGroup"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromUser">
        <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromUser"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>

```

```

    <wsdl:operation name="GetRoleCollection">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollection"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleInfo">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddRole">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddRole" style="document"
/>
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddRoleDef">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddRoleDef"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateRoleInfo">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateRoleDefInfo">
      <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleDefInfo"
style="document" />
      <wsdl:input>

```

```

        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="RemoveRole">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveRole"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserLoginFromEmail">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserLoginFromEmail"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetRolesAndPermissionsForCurrentUser">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForC
urrentUser" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetRolesAndPermissionsForSite">
    <soap:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForS
ite" 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="UserGroupSoap12" type="tns:UserGroupSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
    <wsdl:operation name="GetUserCollectionFromSite">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromSite"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
    </wsdl:operation>

```



```

        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserCollectionFromWeb">
        <soap12:operation
            soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromWeb"
            style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetAllUserCollectionFromWeb">
        <soap12:operation
            soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetAllUserCollectionFromWeb"
            style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserCollectionFromGroup">
        <soap12:operation
            soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromGroup"
            style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserCollectionFromRole">
        <soap12:operation
            soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollectionFromRole"
            style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserCollection">
        <soap12:operation
            soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserCollection"
            style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserInfo">

```

```

    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserInfo"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetCurrentUserInfo">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetCurrentUserInfo"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddUserToGroup">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToGroup"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddUserCollectionToGroup">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToGroup"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddUserToRole">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserToRole"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddUserCollectionToRole">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddUserCollectionToRole"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />

```

```

    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="UpdateUserInfo">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateUserInfo"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RemoveUserFromSite">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromSite"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RemoveUserCollectionFromSite">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromSite"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RemoveUserFromWeb">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromWeb"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="RemoveUserFromGroup">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromGroup"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

    <wsdl:operation name="RemoveUserCollectionFromGroup">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromGr
oup" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveUserFromRole">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserFromRole"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveUserCollectionFromRole">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveUserCollectionFromRo
le" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromSite">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromSite
" style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromWeb">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromWeb"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetGroupCollectionFromRole">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromRole
" style="document" />
      <wsdl:input>

```

```

        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetGroupCollectionFromUser">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollectionFromUser"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetGroupCollection">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupCollection"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetGroupInfo">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetGroupInfo"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddGroup">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddGroup" style="document"
/>
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddGroupToRole">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddGroupToRole"
style="document" />
    <wsdl:input>
        <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap12:body use="literal" />
    </wsdl:output>

```

```

    </wsdl:operation>
    <wsdl:operation name="UpdateGroupInfo">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateGroupInfo"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveGroup">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroup"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveGroupFromRole">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveGroupFromRole"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromWeb">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromWeb"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromGroup">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromGroup"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRoleCollectionFromUser">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollectionFromUser"
style="document" />

```

```

    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
  </wsdl:output>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetRoleCollection">
  <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleCollection"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetRoleInfo">
  <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRoleInfo"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddRole">
  <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddRole" style="document"
/>
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddRoleDef">
  <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/AddRoleDef"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="UpdateRoleInfo">
  <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleInfo"
style="document" />
  <wsdl:input>
    <soap12:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap12:body use="literal" />
  </wsdl:output>

```

```

        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateRoleDefInfo">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/UpdateRoleDefInfo"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveRole">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/RemoveRole"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserLoginFromEmail">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetUserLoginFromEmail"
style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRolesAndPermissionsForCurrentUser">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForC
urrentUser" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRolesAndPermissionsForSite">
        <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/directory/GetRolesAndPermissionsForS
ite" style="document" />
        <wsdl:input>
            <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap12:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```



## 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 2.0
- 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 1.6:](#) Within SharePoint Products and Technologies, much of the functionality provided by the UserGroup Web Service Protocol is provided by utilizing the backend functionality described in [\[MS-WSSFO2\]](#) section 1.3.2.

[<2> Section 2.2.4.7:](#) The SharePoint Products and Technologies UI does not provide access to the **Hidden** attribute.

[<3> Section 2.2.4.8:](#) The SharePoint Products and Technologies UI does not provide access to the **Hidden** attribute.

[<4> Section 3.1.4.3:](#) In SharePoint Products and Technologies, "role definition" is the standard terminology and is used instead of "role" in all descriptions of this protocol's behavior. However, SharePoint Products and Technologies provides two distinct but entirely equivalent operations to add role definitions—**AddRole** and **AddRoleDef**—and two distinct but entirely equivalent operations for updating role definitions—**UpdateRoleInfo** and **UpdateRoleDefInfo**.

[<5> Section 3.1.4.4:](#) Windows SharePoint Services 2.0 does not support this operation.

[<6> Section 3.1.4.4:](#) In SharePoint Products and Technologies, "role definition" is the standard terminology and is used instead of "role" in all descriptions of this protocol's behavior. However, SharePoint Products and Technologies provides two distinct but entirely equivalent operations to add role definitions—**AddRole** and **AddRoleDef**—and two distinct but entirely equivalent operations for updating role definitions—**UpdateRoleInfo** and **UpdateRoleDefInfo**.

[<7> Section 3.1.4.5:](#) If **Active Directory Domain Services (AD DS)** account creation mode is enabled, the **AddUserCollectionToGroup** operation in SharePoint Foundation 2010 works as specified in section [3.1.4](#) with the following differences:

- If a user with the login name specified in the operation exists in the site collection, the server adds the user to the group (2) or role definition as specified in the operation.
- If a user with the login name specified in the operation does not exist in the site collection, the protocol server responds as follows:
  - If an e-mail address specified in the operation is not in a valid format, the server returns a SOAP fault with error code 0x80131600. The specified value MUST NOT contain more than 255 characters, and MUST NOT be empty.
  - If one or more of the users in the site collection have the e-mail address specified in the operation, the protocol server responds as follows:
    - The server chooses one of the users with the e-mail address specified in the operation.
    - In the case where the login name and e-mail address for this user in the site collection do not match the login name and e-mail address in AD DS, the server also creates a new AD DS account for this user with a random, but unique login name.
    - The server adds the user to the group or role definition as specified in the operation.
  - Otherwise, if the e-mail address specified in the operation is valid and none of the users in the site collection have the e-mail address specified in the operation, the server creates a new AD DS account for the user with a random but unique login name and adds the user to the group or role definition as specified.

<8> [Section 3.1.4.6](#): If AD DS account creation mode is enabled, the **AddUserCollectionToRole** operation in SharePoint Foundation 2010 works as specified in section [3.1.4](#) with the following differences:

- If a user with the login name specified in the operation exists in the site collection, the server adds the user to the group (2) or role definition as specified in the operation.
- If a user with the login name specified in the operation does not exist in the site collection, the protocol server responds as follows:
  - If an e-mail address specified in the operation is not in a valid format, the server returns a SOAP fault with error code 0x80004005.
  - If one or more of the users in the site collection have the e-mail address specified in the operation, the protocol server responds as follows:
    - The server chooses one of the users with the e-mail address specified in the operation.
    - In the case where the login name and e-mail address for this user in the site collection do not match the login name and e-mail address in AD DS, the server also creates a new AD DS account for this user with a random, but unique login name.
    - The server adds the user to the group or role definition as specified in the operation.
  - Otherwise, if the e-mail address specified in the operation is valid and none of the users in the site collection have the e-mail address specified in the operation, the server creates a new AD DS account for the user with a random but unique login name and adds the user to the group or role definition as specified.

<9> [Section 3.1.4.7](#): If AD DS account creation mode is enabled, the **AddUserToGroup** operation in SharePoint Foundation 2010 works as specified in section [3.1.4](#) with the following differences:

- If a user with the login name specified in the operation exists in the site collection, the server adds the user to the group or role definition as specified in the operation.
- If a user with the login name specified in the operation does not exist in the site collection, the protocol server responds as follows:
  - If an e-mail address specified in the operation is not in a valid format, the server returns a SOAP fault with error code 0x80004005.
  - If one or more of the users in the site collection have the e-mail address specified in the operation, the protocol server responds as follows:
    1. The server chooses one of the users with the e-mail address specified in the operation.
    2. In the case where the login name and e-mail address for this user in the site collection do not match the login name and e-mail address in AD DS, the server also creates a new AD DS account for this user with a random, but unique login name.
    3. The server adds the user to the group or role definition as specified in the operation.
  - Otherwise, if the e-mail address specified in the operation is valid and none of the users in the site collection have the e-mail address specified in the operation, the server creates a new AD DS account for the user with a random but unique login name and adds the user to the group or role definition as specified.

[<10> Section 3.1.4.8:](#) If Active Directory Domain Services (AD DS) account creation mode is enabled, the **AddUserToRole** operation in SharePoint Foundation 2010 works as specified in section [3.1.4](#) with the following differences:

- If a user with the login name specified in the operation exists in the site collection, the server adds the user to the group (2) or role definition as specified in the operation.
- If a user with the login name specified in the operation does not exist in the site collection, the protocol server responds as follows:
  - If an e-mail address specified in the operation is not in a valid format, the server returns a SOAP fault with error code 0x80004005.
  - If one or more of the users in the site collection have the e-mail address specified in the operation, the protocol server responds as follows:
    1. The server chooses one of the users with the e-mail address specified in the operation.
    2. In the case where the login name and e-mail address for this user in the site collection do not match the login name and e-mail address in AD DS, the server also creates a new AD DS account for this user with a random, but unique login name.
    3. The server adds the user to the group or role definition as specified in the operation.
  - Otherwise, if the e-mail address specified in the operation is valid and none of the users in the site collection have the e-mail address specified in the operation, the server creates a new AD DS account for the user with a random but unique login name and adds the user to the group or role definition as specified.

[<11> Section 3.1.4.10:](#) This operation is not available in Windows SharePoint Services 3.0 or Windows SharePoint Services 2.0.

<12> [Section 3.1.4.15](#): If a site (2) inherits permissions from a parent site, in order for a group to have permissions for that site, the group has to have permissions for the parent site.

<13> [Section 3.1.4.22](#): Windows SharePoint Services 2.0 does not support this operation.

<14> [Section 3.1.4.23](#): Windows SharePoint Services 2.0 does not support this operation.

<15> [Section 3.1.4.30](#): If there are multiple users with the same e-mail address, the protocol server treats this case as no user can be found for a specified e-mail address.

<16> [Section 3.1.4.30.3.1](#): If the value in the **Email** attribute is "login name", this method returns the user based on the login name; login name accepts both complete "Domain\Alias" format and "Alias only" format.

<17> [Section 3.1.4.34](#): Users are removed in sequential order, which means that if a user name is invalid or does not exist in the site collection, an error code 0x81020054 will be returned, but all previous valid users will be removed.

<18> [Section 3.1.4.35](#): Users are removed in sequential order, which means that if some a user name is invalid or does not exist in the site collection, an error code 0x81020054 will be returned, but all previous valid users will be removed.

<19> [Section 3.1.4.36](#): If AD DS account creation mode is enabled, **RemoveUserCollectionFromSite** and **RemoveUserFromSite** operations also delete users from AD DS.

<20> [Section 3.1.4.36](#): Users are removed in sequential order, which means that if a user name is invalid, an error code 0x81020054 will be returned, but all previous valid users will be removed.

For **RemoveUserCollectionFromSite** and **RemoveUserFromSite** operations, error code 0x80004005 is returned instead of 0x81020054 if the user was never added to the site collection. Error code 0x81020054 is returned if the login name is invalid. Otherwise, there is no error reported, even if the user has already been removed from the site collection.

For the **RemoveUserCollectionFromGroup**, **RemoveUserCollectionFromRole**, **RemoveUserFromGroup**, **RemoveUserFromRole**, and **RemoveUserFromWeb** operations, the error code 0x81020054 is returned only if the user does not currently exist in the site collection. Otherwise, there is no error reported if the user has already been removed or is not a member of the respective collection (group, role definition, or site).

<21> [Section 3.1.4.39](#): If AD DS account creation mode is enabled, **RemoveUserCollectionFromSite** and **RemoveUserFromSite** operations also delete users from AD DS.

<22> [Section 3.1.4.41](#): Windows SharePoint Services 2.0 and Windows SharePoint Services 3.0 return a SOAP fault with error code 0x81020043.

<23> [Section 3.1.4.42](#): In SharePoint Products and Technologies, "role definition" is the standard terminology and is used instead of "role" in all descriptions of this protocol's behavior. However, SharePoint Products and Technologies provides two distinct, but entirely equivalent operations to add role definitions—**AddRole** and **AddRoleDef**—and two distinct, but entirely equivalent operations for updating role definitions—**UpdateRoleInfo** and **UpdateRoleDefInfo**.

<24> [Section 3.1.4.43.2.1](#): In SharePoint Products and Technologies, "role definition" is the standard terminology and is used instead of "role" in all descriptions of this protocol's behavior. However, SharePoint Products and Technologies provides two distinct, but entirely equivalent

operations to add role definitions—**AddRole** and **AddRoleDef**—and two distinct, but entirely equivalent operations for updating role definitions—**UpdateRoleInfo** and **UpdateRoleDefInfo**.

Preliminary

## 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](#) 28  
Add users  
  groups  
    [and role definitions example](#) 138  
[Applicability](#) 18  
[Attribute groups](#) 27  
[Attributes](#) 27

### C

[Capability negotiation](#) 18  
[Change tracking](#) 190  
Client  
  [overview](#) 28  
[Common data structures](#) 27  
[Complex types](#) 21  
  [Group](#) 21  
  [Groups](#) 22  
  [InputUsersType](#) 24  
  [InputUserType](#) 23  
  [RolesOutputMaskType](#) 24  
  [RolesOutputTextType](#) 24  
  server  
    [EmailsInputType](#) 104  
    [EmailsOutputType](#) 104  
    [GroupsInputType](#) 57  
    [RolesInputType](#) 72  
    [RolesOutputType](#) 81  
  [User](#) 22  
  [Users](#) 23

### D

Data model - abstract  
  [server](#) 28  
[detail element](#) 21

### E

Elements  
  [detail](#) 21  
  server  
    [AddGroup](#) 33  
    [AddGroupResponse](#) 33  
    [AddGroupToRole](#) 35  
    [AddGroupToRoleResponse](#) 35  
    [AddRole](#) 37  
    [AddRoleDef](#) 40  
    [AddRoleDefResponse](#) 40  
    [AddRoleResponse](#) 38  
    [AddUserCollectionToGroup](#) 42  
    [AddUserCollectionToGroupResponse](#) 42  
    [AddUserCollectionToRole](#) 44  
    [AddUserCollectionToRoleResponse](#) 45  
    [AddUserToGroup](#) 47  
    [AddUserToGroupResponse](#) 47

[AddUserToRole](#) 49  
[AddUserToRoleResponse](#) 50  
[GetAllUserCollectionFromWeb](#) 52  
[GetAllUserCollectionFromWebResponse](#) 52  
[GetCurrentUserInfo](#) 54  
[GetCurrentUserInfoResponse](#) 54  
[GetGroupCollection](#) 56  
[GetGroupCollectionFromRole](#) 59  
[GetGroupCollectionFromRoleResponse](#) 59  
[GetGroupCollectionFromSite](#) 61  
[GetGroupCollectionFromSiteResponse](#) 62  
[GetGroupCollectionFromUser](#) 64  
[GetGroupCollectionFromUserResponse](#) 64  
[GetGroupCollectionFromWeb](#) 66  
[GetGroupCollectionFromWebResponse](#) 66  
[GetGroupCollectionResponse](#) 56  
[GetGroupInfo](#) 68  
[GetGroupInfoResponse](#) 69  
[GetRoleCollection](#) 71  
[GetRoleCollectionFromGroup](#) 74  
[GetRoleCollectionFromGroupResponse](#) 74  
[GetRoleCollectionFromUser](#) 76  
[GetRoleCollectionFromUserResponse](#) 76  
[GetRoleCollectionFromWeb](#) 78  
[GetRoleCollectionFromWebResponse](#) 79  
[GetRoleCollectionResponse](#) 71  
[GetRoleInfo](#) 81  
[GetRoleInfoResponse](#) 81  
[GetRolesAndPermissionsForCurrentUser](#) 84  
[GetRolesAndPermissionsForCurrentUserResponse](#) 84  
[GetRolesAndPermissionsForSite](#) 86  
[GetRolesAndPermissionsForSiteResponse](#) 87  
[GetUserCollection](#) 89  
[GetUserCollectionFromGroup](#) 91  
[GetUserCollectionFromGroupResponse](#) 92  
[GetUserCollectionFromRole](#) 94  
[GetUserCollectionFromRoleResponse](#) 94  
[GetUserCollectionFromSite](#) 96  
[GetUserCollectionFromSiteResponse](#) 96  
[GetUserCollectionFromWeb](#) 98  
[GetUserCollectionFromWebResponse](#) 99  
[GetUserCollectionResponse](#) 89  
[GetUserInfo](#) 101  
[GetUserInfoResponse](#) 101  
[GetUserLoginFromEmail](#) 103  
[GetUserLoginFromEmailResponse](#) 103  
[RemoveGroup](#) 107  
[RemoveGroupFromRole](#) 109  
[RemoveGroupFromRoleResponse](#) 109  
[RemoveGroupResponse](#) 107  
[RemoveRole](#) 111  
[RemoveRoleResponse](#) 111  
[RemoveUserCollectionFromGroup](#) 113  
[RemoveUserCollectionFromGroupResponse](#) 114  
[RemoveUserCollectionFromRole](#) 116  
[RemoveUserCollectionFromRoleResponse](#) 116  
[RemoveUserCollectionFromSite](#) 118  
[RemoveUserCollectionFromSiteResponse](#) 118

- [RemoveUserFromGroup](#) 120
- [RemoveUserFromGroupResponse](#) 121
- [RemoveUserFromRole](#) 122
- [RemoveUserFromRoleResponse](#) 123
- [RemoveUserFromSite](#) 125
- [RemoveUserFromSiteResponse](#) 125
- [RemoveUserFromWeb](#) 127
- [RemoveUserFromWebResponse](#) 127
- [UpdateGroupInfo](#) 129
- [UpdateGroupInfoResponse](#) 130
- [UpdateRoleDefInfo](#) 132
- [UpdateRoleDefInfoResponse](#) 132
- [UpdateRoleInfo](#) 134
- [UpdateRoleInfoResponse](#) 135
- [UpdateUserInfo](#) 136
- [UpdateUserInfoResponse](#) 137
- Events
  - [local - server](#) 137
  - [timer - server](#) 137
- Examples
  - Add users
  - groups
    - [and role definitions](#) 138
    - [remove groups and users from a group](#) 141
    - [retrieve and update user information](#) 140

## F

- [Fields - vendor-extensible](#) 18
- [Full WSDL](#) 144

## G

- [Glossary](#) 16
- [Group complex type](#) 21
- [Groups](#) 27
- [Groups complex type](#) 22

## I

- [Implementer - security considerations](#) 143
- [Index of security parameters](#) 143
- [Informative references](#) 17
- Initialization
  - [server](#) 29
- [InputUsersType complex type](#) 24
- [InputUserType complex type](#) 23
- [Introduction](#) 16

## L

- Local events
  - [server](#) 137

## M

- Message processing
  - [server](#) 29
- Messages
  - [attribute groups](#) 27
  - [attributes](#) 27
  - [common data structures](#) 27

- [complex types](#) 21
- [detail element](#) 21
- [elements](#) 20
- [enumerated](#) 20
- [Group complex type](#) 21
- [groups](#) 27
- [Groups complex type](#) 22
- [InputUsersType complex type](#) 24
- [InputUserType complex type](#) 23
- [namespaces](#) 20
- [PrincipalType simple type](#) 26
- [RolesOutputMaskType complex type](#) 24
- [RolesOutputTextType complex type](#) 24
- server
  - [AddGroupSoapIn](#) 32
  - [AddGroupSoapOut](#) 32
  - [AddGroupToRoleSoapIn](#) 34
  - [AddGroupToRoleSoapOut](#) 35
  - [AddRoleDefSoapIn](#) 39
  - [AddRoleDefSoapOut](#) 39
  - [AddRoleSoapIn](#) 37
  - [AddRoleSoapOut](#) 37
  - [AddUserCollectionToGroupSoapIn](#) 41
  - [AddUserCollectionToGroupSoapOut](#) 42
  - [AddUserCollectionToRoleSoapIn](#) 44
  - [AddUserCollectionToRoleSoapOut](#) 44
  - [AddUserToGroupSoapIn](#) 46
  - [AddUserToGroupSoapOut](#) 46
  - [AddUserToRoleSoapIn](#) 49
  - [AddUserToRoleSoapOut](#) 49
  - [GetAllUserCollectionFromWebSoapIn](#) 51
  - [GetAllUserCollectionFromWebSoapOut](#) 51
  - [GetCurrentUserInfoSoapIn](#) 53
  - [GetCurrentUserInfoSoapOut](#) 53
  - [GetGroupCollectionFromRoleSoapIn](#) 58
  - [GetGroupCollectionFromRoleSoapOut](#) 59
  - [GetGroupCollectionFromSiteSoapIn](#) 61
  - [GetGroupCollectionFromSiteSoapOut](#) 61
  - [GetGroupCollectionFromUserSoapIn](#) 63
  - [GetGroupCollectionFromUserSoapOut](#) 63
  - [GetGroupCollectionFromWebSoapIn](#) 66
  - [GetGroupCollectionFromWebSoapOut](#) 66
  - [GetGroupCollectionSoapIn](#) 55
  - [GetGroupCollectionSoapOut](#) 56
  - [GetGroupInfoSoapIn](#) 68
  - [GetGroupInfoSoapOut](#) 68
  - [GetRoleCollectionFromGroupSoapIn](#) 73
  - [GetRoleCollectionFromGroupSoapOut](#) 73
  - [GetRoleCollectionFromUserSoapIn](#) 76
  - [GetRoleCollectionFromUserSoapOut](#) 76
  - [GetRoleCollectionFromWebSoapIn](#) 78
  - [GetRoleCollectionFromWebSoapOut](#) 78
  - [GetRoleCollectionSoapIn](#) 70
  - [GetRoleCollectionSoapOut](#) 70
  - [GetRoleInfoSoapIn](#) 80
  - [GetRoleInfoSoapOut](#) 80
  - [GetRolesAndPermissionsForCurrentUserSoapIn](#) 83
  - [GetRolesAndPermissionsForCurrentUserSoapOut](#) 83
  - [GetRolesAndPermissionsForSiteSoapIn](#) 86



[GetRolesAndPermissionsForSiteSoapOut](#) 86  
[GetUserCollectionFromGroupSoapIn](#) 91  
[GetUserCollectionFromGroupSoapOut](#) 91  
[GetUserCollectionFromRoleSoapIn](#) 93  
[GetUserCollectionFromRoleSoapOut](#) 93  
[GetUserCollectionFromSiteSoapIn](#) 95  
[GetUserCollectionFromSiteSoapOut](#) 96  
[GetUserCollectionFromSiteWebSoapIn](#) 98  
[GetUserCollectionFromSiteWebSoapOut](#) 98  
[GetUserCollectionSoapIn](#) 88  
[GetUserCollectionSoapOut](#) 88  
[GetUserInfoSoapIn](#) 100  
[GetUserInfoSoapOut](#) 100  
[GetUserLoginFromEmailSoapIn](#) 102  
[GetUserLoginFromEmailSoapOut](#) 103  
[RemoveGroupFromRoleSoapIn](#) 108  
[RemoveGroupFromRoleSoapOut](#) 108  
[RemoveGroupSoapIn](#) 106  
[RemoveGroupSoapOut](#) 106  
[RemoveRoleSoapIn](#) 110  
[RemoveRoleSoapOut](#) 111  
[RemoveUserCollectionFromGroupSoapIn](#) 112  
[RemoveUserCollectionFromGroupSoapOut](#) 113  
[RemoveUserCollectionFromRoleSoapIn](#) 115  
[RemoveUserCollectionFromRoleSoapOut](#) 115  
[RemoveUserCollectionFromSiteSoapIn](#) 117  
[RemoveUserCollectionFromSiteSoapOut](#) 117  
[RemoveUserFromGroupSoapIn](#) 120  
[RemoveUserFromGroupSoapOut](#) 120  
[RemoveUserFromRoleSoapIn](#) 122  
[RemoveUserFromRoleSoapOut](#) 122  
[RemoveUserFromSiteSoapIn](#) 124  
[RemoveUserFromSiteSoapOut](#) 124  
[RemoveUserFromWebSoapIn](#) 126  
[RemoveUserFromWebSoapOut](#) 126  
[UpdateGroupInfoSoapIn](#) 129  
[UpdateGroupInfoSoapOut](#) 129  
[UpdateRoleDefInfoSoapIn](#) 131  
[UpdateRoleDefInfoSoapOut](#) 131  
[UpdateRoleInfoSoapIn](#) 133  
[UpdateRoleInfoSoapOut](#) 134  
[UpdateUserInfoSoapIn](#) 136  
[UpdateUserInfoSoapOut](#) 136  
[simple types](#) 25  
[String1023OrEmptyType simple type](#) 27  
[String251Type simple type](#) 26  
[String255OrEmptyType simple type](#) 27  
[String255Type simple type](#) 26  
[String512OrEmptyType simple type](#) 27  
[syntax](#) 20  
[transport](#) 20  
[User complex type](#) 22  
[Users complex type](#) 23

## N

[Namespaces](#) 20  
[Normative references](#) 17

## O

Operations

[AddGroup](#) 31  
[AddGroupToRole](#) 34  
[AddRole](#) 36  
[AddRoleDef](#) 38  
[AddUserCollectionToGroup](#) 41  
[AddUserCollectionToRole](#) 43  
[AddUserToGroup](#) 45  
[AddUserToRole](#) 48  
[GetAllUserCollectionFromWeb](#) 50  
[GetCurrentUserInfo](#) 53  
[GetGroupCollection](#) 55  
[GetGroupCollectionFromRole](#) 58  
[GetGroupCollectionFromSite](#) 60  
[GetGroupCollectionFromUser](#) 62  
[GetGroupCollectionFromWeb](#) 65  
[GetGroupInfo](#) 67  
[GetRoleCollection](#) 70  
[GetRoleCollectionFromGroup](#) 72  
[GetRoleCollectionFromUser](#) 75  
[GetRoleCollectionFromWeb](#) 77  
[GetRoleInfo](#) 79  
[GetRolesAndPermissionsForCurrentUser](#) 83  
[GetRolesAndPermissionsForSite](#) 85  
[GetUserCollection](#) 87  
[GetUserCollectionFromGroup](#) 90  
[GetUserCollectionFromRole](#) 92  
[GetUserCollectionFromSite](#) 95  
[GetUserCollectionFromWeb](#) 97  
[GetUserInfo](#) 99  
[GetUserLoginFromEmail](#) 102  
[RemoveGroup](#) 105  
[RemoveGroupFromRole](#) 107  
[RemoveSiteRole](#) 110  
[RemoveUserCollectionFromGroup](#) 112  
[RemoveUserCollectionFromRole](#) 114  
[RemoveUserCollectionFromSite](#) 117  
[RemoveUserFromGroup](#) 119  
[RemoveUserFromRole](#) 121  
[RemoveUserFromSite](#) 123  
[RemoveUserFromWeb](#) 125  
[UpdateGroupInfo](#) 128  
[UpdateRoleDefInfo](#) 130  
[UpdateRoleInfo](#) 133  
[UpdateUserInfo](#) 135  
[Overview \(synopsis\)](#) 18

## P

[Parameters - security index](#) 143  
[Preconditions](#) 18  
[Prerequisites](#) 18  
[PrincipalType simple type](#) 26  
[Product behavior](#) 185

## R

[References](#) 17  
[informative](#) 17  
[normative](#) 17  
[Relationship to other protocols](#) 18  
[Remove groups and users from a group example](#) 141

[Retrieve and update user information example](#) 140  
[RolesOutputMaskType complex type](#) 24  
[RolesOutputTextType complex type](#) 24

## S

### Security

[implementer considerations](#) 143  
[parameter index](#) 143

### Sequencing rules

[server](#) 29

### Server

[abstract data model](#) 28  
[AddGroup operation](#) 31  
[AddGroupToRole operation](#) 34  
[AddRole operation](#) 36  
[AddRoleDef operation](#) 38  
[AddUserCollectionToGroup operation](#) 41  
[AddUserCollectionToRole operation](#) 43  
[AddUserToGroup operation](#) 45  
[AddUserToRole operation](#) 48  
[GetAllUserCollectionFromWeb operation](#) 50  
[GetCurrentUserInfo operation](#) 53  
[GetGroupCollection operation](#) 55  
[GetGroupCollectionFromRole operation](#) 58  
[GetGroupCollectionFromSite operation](#) 60  
[GetGroupCollectionFromUser operation](#) 62  
[GetGroupCollectionFromWeb operation](#) 65  
[GetGroupInfo operation](#) 67  
[GetRoleCollection operation](#) 70  
[GetRoleCollectionFromGroup operation](#) 72  
[GetRoleCollectionFromUser operation](#) 75  
[GetRoleCollectionFromWeb operation](#) 77  
[GetRoleInfo operation](#) 79  
[GetRolesAndPermissionsForCurrentUser operation](#) 83  
[GetRolesAndPermissionsForSite operation](#) 85  
[GetUserCollection operation](#) 87  
[GetUserCollectionFromGroup operation](#) 90  
[GetUserCollectionFromRole operation](#) 92  
[GetUserCollectionFromSite operation](#) 95  
[GetUserCollectionFromWeb operation](#) 97  
[GetUserInfo operation](#) 99  
[GetUserLoginFromEmail operation](#) 102  
[initialization](#) 29  
[local events](#) 137  
[message processing](#) 29  
[overview](#) 28  
[RemoveGroup operation](#) 105  
[RemoveGroupFromRole operation](#) 107  
[RemoveRole operation](#) 110  
[RemoveUserCollectionFromGroup operation](#) 112  
[RemoveUserCollectionFromRole operation](#) 114  
[RemoveUserCollectionFromSite operation](#) 117  
[RemoveUserFromGroup operation](#) 119  
[RemoveUserFromRole operation](#) 121  
[RemoveUserFromSite operation](#) 123  
[RemoveUserFromWeb operation](#) 125  
[sequencing rules](#) 29  
[timer events](#) 137  
[timers](#) 29  
[UpdateGroupInfo operation](#) 128

[UpdateRoleDefInfo operation](#) 130  
[UpdateRoleInfo operation](#) 133  
[UpdateUserInfo operation](#) 135

### Simple types

[PrincipalType](#) 26  
[String1023OrEmptyType](#) 27  
[String251Type](#) 26  
[String255OrEmptyType](#) 27  
[String255Type](#) 26  
[String512OrEmptyType](#) 27  
[Standards assignments](#) 19  
[String1023OrEmptyType simple type](#) 27  
[String251Type simple type](#) 26  
[String255OrEmptyType simple type](#) 27  
[String255Type simple type](#) 26  
[String512OrEmptyType simple type](#) 27

### Syntax

[messages - overview](#) 20

## T

### Timer events

[server](#) 137

### Timers

[server](#) 29

### Tracking changes

[Transport](#) 20

### Types

[complex](#) 21  
[simple](#) 25

## U

[User complex type](#) 22

[Users complex type](#) 23

## V

[Vendor-extensible fields](#) 18

[Versioning](#) 18

## W

[WSDL](#) 144