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Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Universal Mobile Telecommunications System (UMTS);
LTE;
Open Service Access (OSA);
Parlay X web services;
Part 13: Address list management
(3GPP TS 29.199-13 version 9.0.0 Release 9)**



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Foreword

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

3GPP acknowledges the contribution of the Parlay X Web Services specifications from The Parlay Group. The Parlay Group is pleased to see 3GPP acknowledge and publish the present document, and the Parlay Group looks forward to working with the 3GPP community to improve future versions of the present document.

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Introduction

The present document is part 13 of a multi-part deliverable covering the 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Open Service Access (OSA); Parlay X Web Services, as identified below:

Part 1:	"Common"
Part 2:	"Third party call"
Part 3:	"Call Notification"
Part 4:	"Short Messaging"
Part 5:	"Multimedia Messaging"
Part 6:	"Payment"
Part 7:	"Account management"
Part 8:	"Terminal Status"
Part 9:	"Terminal location"
Part 10:	"Call handling"
Part 11:	"Audio call"
Part 12:	"Multimedia conference"
Part 13:	"Address list management"
Part 14:	"Presence"
Part 15:	"Message Broadcast"
Part 16:	"Geocoding"
Part 17:	"Application driven Quality of Service (QoS)"
Part 18:	"Device Capabilities and Configuration"
Part 19:	"Multimedia streaming control"
Part 20:	"Multimedia multicast session management"
Part 21:	"Content management"
Part 22:	"Policy"

1 Scope

The present document is Part 13 of the Stage 3 Parlay X Web Services specification for Open Service Access (OSA).

The OSA specifications define an architecture that enables application developers to make use of network functionality through an open standardized interface, i.e. the OSA APIs. The concepts and the functional architecture for the OSA are contained in 3GPP TS 23.198 [3]. The requirements for OSA are contained in 3GPP TS 22.127 [2].

The present document specifies the Address List Management Web Service aspects of the interface. All aspects of the Address List Management Web Service are defined here, these being:

- Name spaces.
- Sequence diagrams.
- Data definitions.
- Interface specification plus detailed method descriptions.
- Fault definitions.
- Service policies.
- WSDL description of the interfaces.

The present document has been defined jointly between 3GPP TSG CT WG5, ETSI TISPAN and The Parlay Group.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.198: "Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 22.101: "Service aspects; Service principles".
- [5] W3C Recommendation (2 May 2001): "XML Schema Part 2: Datatypes".
<http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>.
- [6] 3GPP TS 29.199-1: "Open Service Access (OSA); Parlay X Web Services; Part 1: Common".
- [7] IETF RFC 2396: "Uniform Resource Identifiers (URI): Generic Syntax".
- [8] IETF RFC 4826: "Extensible Markup Language (XML) Formats for Representing Resource Lists".
- [9] OMA-TS-Presence_SIMPLE_RLS_XDM- V1_1: "RLS XDM Specification", Version 1.1, Open Mobile Alliance™. <http://www.openmobilealliance.org/>
- [10] OMA-TS-XDM_Shared_Group-V2_0: "Shared Group XDM Specification", Version 2.0, Open Mobile Alliance™. <http://www.openmobilealliance.org/>
- [11] OMA-TS-XDM_Shared_List-V2_0: "Shared List XDM Specification", Version 2.0, Open Mobile Alliance™. <http://www.openmobilealliance.org/>

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 29.199-1 [6] and the following apply:

application managed group: group created and managed outside of the network, requiring the group members to be passed into the network for processing.

group: container for a set of addresses, it is not an address itself.

When a group contain one or more groups, logically the group contains the set of addresses it holds, plus the set of addresses that any contained group holds (including any addresses contained in groups that a contained group holds).

group resolution: when a group is processed by a service, it expands the group (and any nested groups) into a set of addresses.

The resulting set of addresses contains no groups, and any duplicate addresses are removed. Thus, a resolved group may be considered an exclusive union of all of its contained members.

network managed group: group created and managed within a network, allowing Web Services to reference the members of a group using the group name

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 29.199-1 [6] apply.

4 Detailed service description

The present document defines two related interfaces, one to manage the groups themselves - creation, deletion, query and access right management. The second interface manages the members within a group, supporting add, delete and query operations.

Addresses are not created using this service, they must already exist.

4.1 Group URI format

A group URI is consistent with the style defined in RFC 2396 [7], supporting the following URI style which is used in schemes such as sip and mailto:

scheme:dept1294@mydivision.mycompany.serviceprovider.com

The group URI consists of the following discrete elements:

Scheme: selected by the provider of the group URI.

Group name: following the conventions of RFC 2396 [7].

Suffix: may be added by Service Provider (if allowed by creation operation) to create a unique name when the Prefix + Group name already exists.

Sub-domain: defined by the requester, this is contained within the domain provided by the service provider.

Domain: defined by the Service Provider, and cannot be specified by the application.

This definition of a group URI enables flexibility on the part of the Service Provider and the Requester, while ensuring unique groups are created and providing transparency of implementation of group storage.

The following are some group URI examples.

- sip:salesteam@sales.acme.anytelco.com
- sip:salesteam1@sales.acme.anytelco.com
- <mailto:fieldservice@cityofaustin.anytelco.com>
- group:mailroom@bldg001.acme.anytelco.com

These examples show (1)(2) use of prefix to create unique names, (1)(3) use of different defined schemes, and (4) use of a service provider defined scheme.

4.2 Address list usage in services

When a service has a requirement to support groups of address lists, it may satisfy this requirement by utilizing network managed groups. The group URI is passed to the service, and this group URI is resolved to the set of URIs contained within the group. If one or more group URIs are provided in a set of URIs to a service, the service will replace each group URI with its set of contained URIs, and the service processing will apply to the unique union of URIs generated.

If supported by the service policy, zero or more of the set of URIs contained within a group may be themselves group URIs, which would also be resolved. Thus, in this case, the list of URIs that the service would process would be the union of individual URIs (as a set with no duplicates).

Unless specifically defined in the semantics of a service, the expected semantic for the results of a service operation will be presented as the results for the set of URIs as processed (the union of non-group and group provided URIs), without group URIs included in the result. This eliminates a variety of complexity issues including duplicate URIs in multiple groups and the differences between a group URI and a URI referring to an endpoint.

5 Namespaces

The GroupManagement interface uses the namespace:

`http://www.csapi.org/wsd/parlayx/group_mgmt/v4_0`

The Group interface uses the namespace:

`http://www.csapi.org/wsd/parlayx/group/v4_0`

The GroupMember interface uses the namespace:

`http://www.csapi.org/wsd/parlayx/group_member/v4_0`

The data types are defined in the namespace:

`http://www.csapi.org/schema/parlayx/group/v4_0`

The 'xsd' namespace is used in the present document to refer to the XML Schema data types defined in XML Schema [5]. The use of the name 'xsd' is not semantically significant.

6 Sequence diagrams

6.1 Manage groups (Create, delete, query, set access and query access)

Pattern: Request / Response.

The group management functions are shown in this diagram, showing a sequence including the creation of a group, setting access permissions to the group, querying those permissions, query of groups and finally deletion of a group.

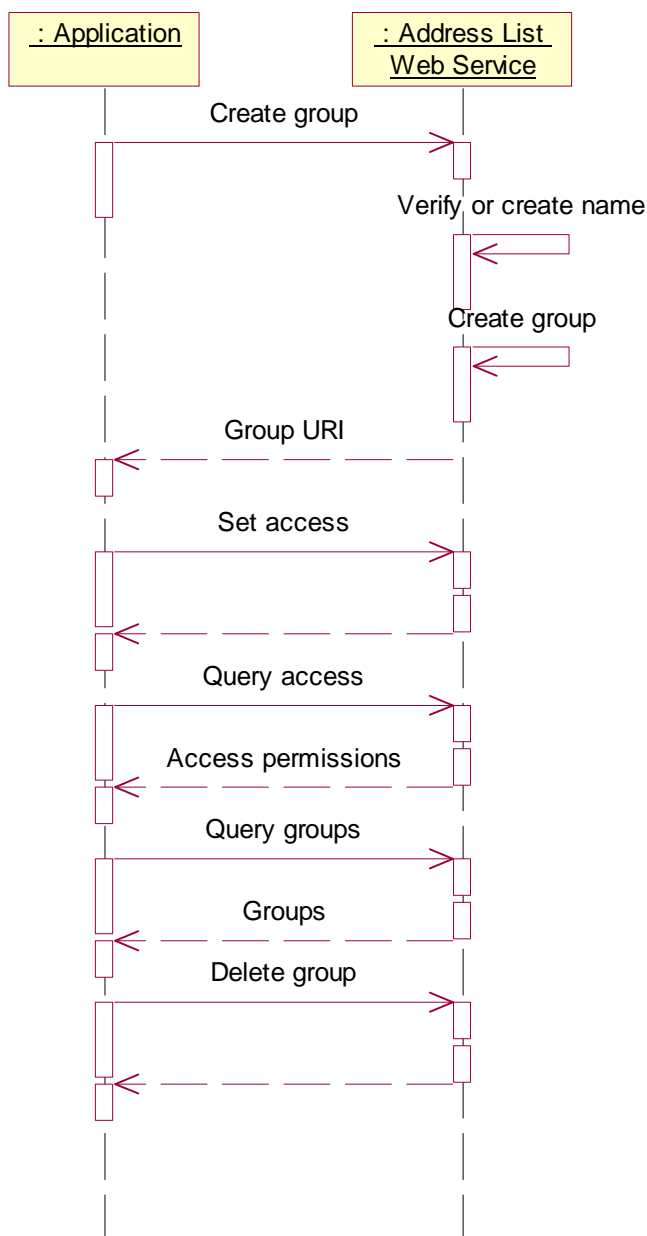


Figure 1

6.2 Manage Group Members (AddMember, AddMembers, DeleteMember, DeleteMembers, QueryMembers)

Pattern: Request / Response.

The group membership functions are shown in this diagram, showing the two add, two delete, and the query function.

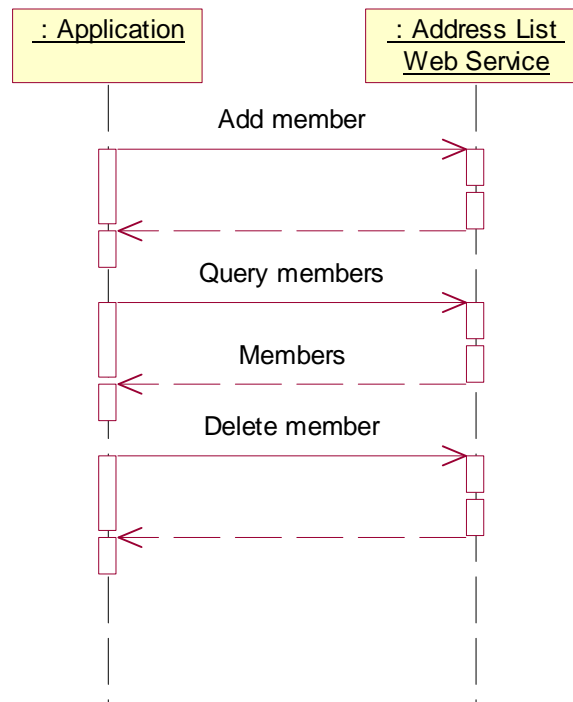


Figure 2

7 XML Schema data type definition

7.1 AccessPermissions structure

List of access permissions that may be assigned to a requester associated with a group.

Name	Type	Optional	Description
AdminPermission	xsd:boolean	No	Requester has admin permission for the group
AddPermission	xsd:boolean	No	Requester can add members to a group
DeletePermission	xsd:boolean	No	Requester can delete members from a group
QueryPermission	xsd:boolean	No	Requester can query members in a group

7.2 AttributeStatus enumeration

Enumeration	Description
Valid	Attribute is valid
Unknown	Attribute is not defined
Denied	Access to the attribute is denied

7.3 SimpleAttribute structure

Attribute representing a name and an associated value.

Name	Type	Optional	Description
Name	xsd:string	No	Name of the attribute
Type	xsd:string	No	Type of the attribute. The value is always a string, but this provides information on the format of the value.
Value	xsd:string	No	Value of the attribute
Status	AttributeStatus	No	Status of the attribute

7.4 GroupType enumeration

Enumeration	Description
PresenceList	A list of Presentities (e.g. an entry element in a rls-services document in an RLS XDMS [9]).
URIList	A list of individual addresses (e.g. in a resource-lists document in a Shared List XDMS [11]).
GroupURIList	A list of group addresses (e.g. in a group usage document in a Shared List XDMS [11]).
PrearrangedGroup	A group document (e.g. in a Shared Group XDMS [10]) used for prearranged group communication.

7.5 GroupInfo Structure

Element name	Element type	Optional	Description
GroupSelector	xsd:string	No	Document Selector
GroupType	GroupType	No	The type of group or list.
Group	xsd:anyURI	Yes	Name of the group (Address to the group in case of a PresenceList or PrearrangedGroup)
List	XML element	Yes	The detailed list /group definition. (e.g a <list >element in Shared List XDMS [11], a <service> element in RLS XDMS [9] or a <group> element in Shared Group XDMS [10])

8 Web Service interface definition

The Address List Management service consists of three interfaces:

- GroupManagement which manages creation and access to groups that hold the address lists.
- Group which manages the content of the address list.
- GroupMember which represents an address list entry and its associated properties.

Together these provide the interfaces to create and manage address lists, enabling these groups to be used by other services through this common capability.

8.1 Interface: GroupManagement

The GroupManagement interface provides the administration interface for creating, deleting, querying and managing access rights for groups. The format of the group name is specified in the Detailed Service Description (see clause 4).

8.1.1 Operation: createGroup

Create a new group or list. The requester provides either:

- The name for the group and the domain segment in which the group is to be stored. A result shall be returned with the Group URI..

or

- The group or list owner and group or list name / identity. The document selector shall be returned.

In the first case, a domain segment is used, since the full domain will consist of the domain segment provided by the requester (e.g. 'sales.mycompany') plus a period separator('.') per RFC 2396 [7] and the domain segment provided by the Service Provider (e.g. 'serviceprovider.com').

To avoid name conflicts, since group URIs must be unique, an automatic naming capability is provided which will append a suffix to the name provided if the name is already used within the domain. If the AutoName is set to 'true' and the fully qualified name is not unique, then the name will have a suffix added and the unique name will be provided in the result. For example, if the group 'sales@mycompany.serviceprovider.com' was already defined, a suffix would be added and the result could be 'sales1@mycompany.serviceprovider.com'. If the AutoName is set to 'false', then a PolicyException is thrown if the group URI is not unique.

In the second case, the group or list belonging to the owner may be identified either by a list URI parameter (e.g. for presence lists in a SIP /IMS network) or by a list name (e.g. for shared lists in a SIP / IMS network).

Note: In a SIP / IMS network:

- The requester must be authorized within it
- A service URI that identifies a list at an RLS XDMS [9] may be constructed from the values in the GroupOwner (URI) and the ListIdParameter (as a URI parameter).
- A list at a Shared List XDMS [11] is identified by the ListName.

8.1.1.1 Input message: createGroupRequest

Part name	Part type	Optional	Description
name	xsd:string	Yes	Name of group to be included in group name. This parameter must be present when the Domain parameter is present.
Domain	xsd:string	Yes	Domain segment to be contained within the domain provided by the Service Provider. May be hierarchical using period separators (see RFC 2396 [7])
AutoName	xsd:boolean	Yes	If false, name must be unique or it will not be created. If true, a suffix will be added to the name if it is not unique. This parameter must be present when the Domain parameter is present.
GroupOwner	xsd:anyURI	Yes	User who is the group / list owner. The identity of the owner may be part of the information required to identify the group / list.
ListIdParameter	xsd:string	Yes	A string that may be used as a URI parameter to identify a particular list.
ListName	xsd:string	Yes	A name that may be used to identify a particular list (e.g. resource list).
Requester	xsd:anyURI	No	User wishing to create / update the group / list. Normally this is the group / list owner. It is assumed that the Watcher Application has authenticated this user.
List	XML Element	Yes	Detailed information about the group (e.g. a RLS <service> resource-list <list> element or a <group> element in Shared Group XDMS [10]). Note: If this is an RLS or a Shared Group services document element, it is recommended that it includes a service URI constructed from the GroupOwner (URI) and the ListId (URI parameter) parts of the Group identity. If this is a resource-lists XML document, it is recommended that it includes the list name attribute (optional in RFC 4826 [8]) with the value defined by the ListName part of the Group identity.
GroupType	GroupType	Yes	The type of group or list.

8.1.1.2 Output message: createGroupResponse

Either "result" or "GroupSelector" shall be provided in the output message.

Part name	Part type	Optional	Description
result	xsd:anyURI	Yes	Fully qualified group name
GroupSelector	xsd:string	Yes	Document Selector

8.1.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0212: Group name too long.
- POL0213: Group already exists.

8.1.2 Operation: deleteGroup

Delete a group. Either the Group (URI) or the Group Selector must identify the group / list to be removed.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.1.2.1 Input message: deleteGroupRequest

Part name	Part type	Optional	Description
group	xsd:anyURI	Yes	Name of group to delete (as returned from a previous createGroup or GetOwnersGroups request).
GroupOwner	xsd:anyURI	Yes	User who is the group / list owner. The identity of the owner may be part of the information required to identify the group / list.
GroupType	GroupType	Yes	The type of group or list to be deleted.
GroupSelector	xsd:string	Yes	Document Selector (as returned from a previous createGroup request).
Requester	xsd:anyURI	No	User wishing to delete the group / list. Normally this is the group / list owner. It is assumed that the Watcher Application has authenticated this user.

8.1.2.2 Output message: deleteGroupResponse

Part name	Part type	Optional	Description
None			

8.1.2.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.1.3 Operation: queryGroups

Group information can be retrieved from the network, with two types of search, one that retrieves groups only from a single sub-domain and one that returns groups from the sub-domain and its sub-domains.

An example demonstrates the two search types. The following example data is used:

- Dept123@region1.sales.mycompany.serviceprovider.com
- Dept245@region2.sales.mycompany.serviceprovider.com
- Dept348@sales.mycompany.serviceprovider.com
- Dept367@sales.mycompany.serviceprovider.com
- Dept875@finance.mycompany.serviceprovider.com

For a search using the search domain 'sales.mycompany', with the hierarchy set to 'false', the result will contain:

- Dept348@sales.mycompany.serviceprovider.com
- Dept367@sales.mycompany.serviceprovider.com
- If the same search domain 'sales.mycompany' is used, but the hierarchy set to 'true', the result will contain,
- Dept123@region1.sales.mycompany.serviceprovider.com
- Dept245@region2.sales.mycompany.serviceprovider.com
- Dept348@sales.mycompany.serviceprovider.com
- Dept367@sales.mycompany.serviceprovider.com

8.1.3.1 Input message: queryGroupsRequest

Part name	Part type	Optional	Description
SearchDomain	xsd:string	No	Sub-domain to retrieve groups from
Hierarchy	xsd:boolean	No	Follow hierarchy under search name.

8.1.3.2 Output message: queryGroupsResponse

Part name	Part type	Optional	Description
Result	xsd:anyURI [0..unbounded]	Yes	Array of items matching search criteria.

8.1.3.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.1.4 Operation: setAccess

Access to manage the elements within a group may be provided independently from the access to manage the group itself. This operation enables the group administrator to specify the requester and the operations the requester is permitted to perform through the Group interface.

The access rights are absolute, if a requester has 'query' access currently and 'add' access is to be added, then the request requires both 'add' and 'query' rights to be set to 'true'. Likewise, any right that is set to 'false' will be revoked.

8.1.4.1 Input message: setAccessRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to grant access to
Requester	xsd:string	No	Requester to grant access to
AdminPermission	xsd:Boolean	No	Permission to manage group
AddPermission	xsd:Boolean	No	Permission to add members to the group
DeletePermission	xsd:Boolean	No	Permission to delete members from the group
QueryPermission	xsd:Boolean	No	Permission to query members in the group

8.1.4.2 Output message: setAccessResponse

Part name	Part type	Optional	Description
None			

8.1.4.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.1.5 Operation: queryAccess

Query the access permissions for a requester on a group.

8.1.5.1 Input message: queryAccessRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to which permissions are to be granted.
Requester	xsd:string	No	Requester to retrieve access permissions for.

8.1.5.2 Output message: queryAccessResponse

Part name	Part type	Optional	Description
result	AccessPermissions	No	List of permissions that a requester has.

8.1.5.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.1.6 Operation: getOwnersGroups

It gets the members of existing groups / lists belonging to an owner that have no other specific reference or domain.

The identity of the Requester is necessary for network authorization and the identity of the GroupOwner is necessary to identify the groups / lists.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.1.6.1 Input message: getOwnersGroupsRequest

Part name	Part type	Optional	Description
requester	xsd:anyURI	No	User wishing to retrieve the groups / lists members. Normally this is the groups / lists owner. It is assumed that the Watcher Application has authenticated this user.
GroupOwner	xsd:anyURI	No	User who is the groups / lists owner. The identity of the owner is part of the information required to identify the groups / lists.
GroupSelector	xsd:string	Yes	Document Selector. If included only information about a group related to the document selector will be returned.
GroupTypes	GroupType [0...unbounded]	Yes	The types of group or list to be retrieved. If empty, all types of groups are retrieved.
IncludeAllGroupInfo	xsd:boolean	Yes	All information about the groups shall be included in the response if true. If false all list elements will be excluded from the response.

8.1.6.2 Output message: getOwnersGroupsResponse

Either "memberURIs" or "GroupInfo" shall be provided in the output message.

Part name	Part type	Optional	Description
memberURIs	xsd:anyURI [0..unbounded]	Yes	An Array of all groups / lists members.
GroupInfo	GroupInfo[0..unbounded]	Yes	A sequence of one or more GroupInfo elements.

8.1.6.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.1.7 Operation: deleteOwnersGroups

Deletes the existing groups / lists belonging to an owner that have no other specific reference or domain.

The identity of the Requester is necessary for network authorization and the identity of the GroupOwner is necessary to identify the groups / lists.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.1.7.1 Input message: deleteOwnersGroupsRequest

Part name	Part type	Optional	Description
requester	xsd:anyURI	No	User wishing to delete the groups / lists. Normally this is the groups / lists owner.
GroupOwner	xsd:anyURI	No	User who is the groups / lists owner. The identity of the owner is part of the information required to identify the groups / lists.
GroupTypes	GroupType [0...unbounded]	Yes	The types of group or list to be deleted. If empty, all types of groups are deleted.

8.1.7.2 Output message: deleteOwnersGroupsResponse

Part name	Part type	Optional	Description
None			

8.1.7.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2 Interface: Group

The Group interface provides the administration interface for creating, deleting, querying members within a group.

8.2.1 Operation: addMember

Add a member to a group or list. Either the Group (URI) or the Group Selector identifies the group / list to which the new member is to be added.

If the new member is a group, and if nested group support is provided, this will add the group URI as a reference to the list of members (it will not expand the contents of the group within this group). A group may not be added recursively, an attempt to do so will result in a ServiceException. To add a group as a member of a group, the requester must have query permission on the group to be added.

The identity of the Requester may be necessary for network authorization.

The new member may be identified by URI or by reference to an existing list member. Alternatively, the new member may be another list or particularly a resource list URI that is external to the existing list.

An optional display name for the new member may be provided.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.2.1.1 Input message: addMemberRequest

Part name	Part type	Optional	Description
group	xsd:anyURI	Yes	URI of group (as returned from a previous createGroup request) to which a member is to be added.
GroupOwner	xsd:anyURI	Yes	User who is the group / list owner. The identity of the owner may be part of the information required to identify the group / list.
GroupType	GroupType	Yes	The type of group or list to which the member is to be added..
GroupSelector	xsd:string	Yes	Document Selector (as returned from a previous createGroup request).
Requester	xsd:anyURI	No	User wishing to update the group / list. Normally this is the group / list owner. It is assumed that the Watcher Application has authenticated this user.
Member	xsd:anyURI	Yes	URI of Member to add to the group or list.
MemberRef	xsd:string	Yes	Reference of member to be added to the group or list.
ExternalList	xsd:string	Yes	Reference anchor of an external list to be added to the group or list.
ResourceList	xsd:anyURI	Yes	URI of resource list to be added.
DisplayName	xsd:string	Yes	Name / Nickname for member that may be displayed to a human user.

8.2.1.2 Output message: addMemberResponse

Part name	Part type	Optional	Description
None			

8.2.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0210: Too many members in a group.
- POL0211: Subgroups not allowed.

8.2.2 Operation: addMembers

Add an array of members to a group. If nested group support is provided, this will add any group URIs, as references, to the list of members (it will not expand the contents of any groups within this group). No group may be added recursively, an attempt to do so will result in a `ServiceException`, and none of the members will be added to the group.

To add a group as a member of a group, the requester must have query permission on the group to be added.

8.2.2.1 Input message: addMembersRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	URI of group to which members are to be added.
Members	xsd:anyURI [1..unbounded]	No	Members to add to the group.

8.2.2.2 Output message: addMembersResponse

Part name	Part type	Optional	Description
None			

8.2.2.3 Referenced faults

`ServiceException` from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

`PolicyException` from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0013: Addresses duplication.
- POL0210: Too many members in group.
- POL0211: Subgroups not allowed.

8.2.3 Operation: deleteMember

Delete a member from a group or list. Either the Group (URI) or the Group Selector identifies the group / list from which the member is to be deleted

The member may only be removed from this group. If nested groups are supported, the member will not be removed from any nested group. Removal of a group URI will remove that group URI reference from this group, it will not delete the group.

The identity of the Requester may be necessary for network authorization.

The member to be removed may be identified by URI or by member reference. Alternatively, the member to be removed may be a reference to an external list or a resource list URI.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.2.3.1 Input message: deleteMemberRequest

Part name	Part type	Optional	Description
group	xsd:anyURI	Yes	URI of group (as returned from a previous createGroup request) to which a member is to be deleted.
GroupOwner	xsd:anyURI	Yes	User who is the group / list owner. The identity of the owner may be part of the information required to identify the group / list.
GroupType	GroupType	Yes	The type of group or list from which the member is to be deleted.
GroupSelector	xsd:string	Yes	Document Selector (as returned from a previous createGroup request).
Requester	xsd:anyURI	No	User wishing to update the group / list. Normally this is the group / list owner. It is assumed that the Watcher Application has authenticated this user.
Member	xsd:anyURI	Yes	URI of Member to be deleted from the group or list.
MemberRef	xsd:string	Yes	Reference of member to be deleted from the group or list.
ExternalList	xsd:string	Yes	Reference anchor of an external list to be deleted from the group or list.
ResourceList	xsd:anyURI	Yes	URI of resource list to be deleted from the group or list.

8.2.3.2 Output message: deleteMemberResponse

Part name	Part type	Optional	Description
None			

8.2.3.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

Delete a member from a group. The member may only be removed from this group. If nested groups are supported, the member will not be removed from any nested group. Removal of a group URI will remove that group URI reference from this group, it will not delete the group.

8.2.4 Operation: deleteMembers

Delete an array of members from a group. The members may only be removed from this group. If nested groups are supported, the members will not be removed from any nested group. Removal of a group URI will remove that group URI reference from this group, it will not delete the group. If the array contains URIs that are not in the group, they will be ignored and no fault will be generated.

8.2.4.1 Input message: deleteMembersRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	URI of group.
Members	xsd:anyURI [1..unbounded]	No	Members to delete from the group.

8.2.4.2 Output message: deleteMembersResponse

Part name	Part type	Optional	Description
None			

8.2.4.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.
- POL0013: Addresses duplication.

8.2.5 Operation: queryMembers

Get the members contained within a group or list.

The requester provides either:

- The Group (URI) as returned from a previous createGroup request
- or
- The group or list owner and the Group Selector

If the Group (URI) is used to identify the group / list and nested groups are supported, then the member list may contain group URIs as members. Therefore, two manners are supported for retrieving the list of members using the Group (URI) - with members resolved and without.

If the Group (URI) part is used to identify the group / list, the ResolveGroups part must be present.

- If ResolveGroups is 'true', then the exclusive union of all the members contained within the group, and any nested subgroups, is the result (exclusive union means that after retrieving all members, duplicate members are removed).
- If ResolveGroup is 'false', then the group members are returned including group URIs as members of the group. If members within nested groups are required, subsequent calls to this operation with those groups may be used to retrieve those members.

If the Group (URI) part is not used to identify the group / list or if nested groups are not supported, the value of ResolveGroups is ignored.

The identity of the Requester may be necessary for network authorization and the identity of the group / list owner may be necessary to help identify the group / list.

NOTE: In a SIP / IMS network, the requester must be authorized within it.

8.2.5.1 Input message: queryMembersRequest

Part name	Part type	Optional	Description
group	xsd:anyURI	Yes	URI of group (as returned from a previous createGroup request).
ResolveGroups	xsd:boolean	Yes	If true, return set of members after resolving groups (including subgroups). If false, return members including group references. Only used, if the Group part is present.
GroupOwner	xsd:anyURI	Yes	User who is the group / list owner. The identity of the owner may be part of the information required to identify the group / list.
GroupType	GroupType	Yes	The type of group or list from which the member is to be deleted.
GroupSelector	xsd:string	Yes	Document Selector (as returned from a previous createGroup request).
Requester	xsd:anyURI	No	User wishing to retrieve the group / list. Normally this is the group / list owner. It is assumed that the Watcher Application has authenticated this user.

8.2.5.2 Output message: queryMembersResponse

Part name	Part type	Optional	Description
result	xsd:anyURI [0..unbounded]	Yes	Members of group identified by URI.
presenceList	XML Element	Yes	An RLS services XML document element that is a presence list.
resourceList	XML Element	Yes	A resource-lists XML document element that is a resource list.
GroupURIList	XML Element	Yes	A group usage document element that is a list of group members.
PrearrangedGroup	XML Element	Yes	A group used for prearranged group communication.

8.2.5.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.
- SVC0004: No valid addresses.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.6 Operation: addGroupAttribute

Groups may have attributes associated with the group. To avoid conflicts, attribute names that start with Group are reserved for use as defined within the present document:

- Group.Description.
- Group.ExpiryDate.

Attributes may be added or updated by those with admin or add permission on the specified group.

8.2.6.1 Input message: addGroupAttributeRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to set attribute for
Value	SimpleAttribute	No	Attribute to add, or update

8.2.6.2 Output message: addGroupAttributeResponse

Part name	Part type	Optional	Description
None			

8.2.6.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.7 Operation: deleteGroupAttribute

Groups may have attributes removed by those with admin or delete permission on the specified group.

8.2.7.1 Input message: deleteGroupAttributeRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to delete attribute from
AttributeName	xsd:string	No	Name of attribute to delete

8.2.7.2 Output message: deleteGroupAttributeResponse

Part name	Part type	Optional	Description
None			

8.2.7.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.8 Operation: queryGroupAttributes

Query the attributes for a group by those with admin or read permission on the specified group.

8.2.8.1 Input message: queryGroupAttributesRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to get attributes for.

8.2.8.2 Output message: queryGroupAttributesResponse

Part name	Part type	Optional	Description
Result	SimpleAttribute [0..unbounded]	Yes	Group attributes.

8.2.8.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.9 Operation: addGroupMemberAttribute

Group members may have attributes that are within the context of a group in which they belong.

Group member attributes may be added or updated by those with admin or add permission on the specified group.

8.2.9.1 Input message: addGroupMemberAttributeRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to set attribute for.
Member	xsd:anyURI	No	Member to set attribute for
Value	SimpleAttribute	No	Attribute to add, or update

8.2.9.2 Output message: addGroupMemberAttributeResponse

Part name	Part type	Optional	Description
None			

8.2.9.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.10 Operation: deleteGroupMemberAttribute

Group members may have attributes removed by those with admin or delete permission on the specified group.

8.2.10.1 Input message: deleteGroupMemberAttributeRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to delete attribute from
Member	xsd:anyURI	No	Member to delete attribute from
AttributeName	xsd:string	No	Name of attribute to remove

8.2.10.2 Output message: deleteGroupMemberAttributeResponse

Part name	Part type	Optional	Description
None			

8.2.10.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.2.11 Operation: queryGroupMemberAttributes

Query the attributes for a group member by those with admin or read permission on the specified group.

8.2.11.1 Input message: queryGroupMemberAttributesRequest

Part name	Part type	Optional	Description
Group	xsd:anyURI	No	Group to get attributes for.
Member	xsd:anyURI	No	Member to get attributes for

8.2.11.2 Output message: queryGroupMemberAttributesResponse

Part name	Part type	Optional	Description
Result	SimpleAttribute [0..unbounded]	Yes	Group member attributes.

8.2.11.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.3 Interface: Member

The Member interface provides access to information related to a particular entity.

8.3.1 Operation: addMemberAttribute

Add member attribute. If an attribute with this name exists, its value will be replaced with the value provided in this operation.

8.3.1.1 Input message :addMemberAttributeRequest

Part name	Part type	Optional	Description
Member	xsd:anyURI	No	Member to add attribute to
Data	SimpleAttribute	No	Attribute to add to member

8.3.1.2 Output message: addMemberAttributeResponse

Part name	Part type	Optional	Description
None			

8.3.1.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.3.2 Operation: queryMemberAttributes

Query attributes of a member. If any attributes requested do not exist, they will not be included in the result.

8.3.2.1 Input message :queryMemberAttributesRequest

Part name	Part type	Optional	Description
Member	xsd:anyURI	No	Member to query attributes for
AttributeNames	xsd:string [1..unbounded]	No	List of attribute names to retrieve

8.3.2.2 Output message: queryMemberAttributesResponse

Part name	Part type	Optional	Description
Result	SimpleAttribute [0..unbounded]	Yes	List of attributes

8.3.2.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

8.3.3 Operation: deleteMemberAttribute

Delete attribute from a member. If the attribute specified does not exist, it will be ignored.

8.3.3.1 Input message :deleteMemberAttributeRequest

Part name	Part type	Optional	Description
Member	xsd:anyURI	No	Member to remove attribute from
AttributeName	xsd:string	No	Name of attribute to delete

8.3.3.2 Output message: deleteMemberAttributeResponse

Part name	Part type	Optional	Description
None			

8.3.3.3 Referenced faults

ServiceException from 3GPP TS 29.199-1 [6]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from 3GPP TS 29.199-1 [6]:

- POL0001: Policy error.

9 Fault definitions

9.1 Fault: PolicyException

9.1.1 POL0210: Too many members in group

Number of members in a group exceeds the number allowed by the Service Policy (MaxGroupMembers).

Name	Description
Message Id	<POL0210>
Text	Attempt to exceed maximum number of members in a group. Maximum number allowed is %1.
Variables	%1 = Maximum number allowed by Service Policy.

9.1.2 Subgroups not supported

Attempt to add a subgroup not permitted by Service Policy (SupportNestedGroups).

Name	Description
Message Id	<POL0211>
Text	Attempted to add a group to an existing group. Subgroups are not supported.
Variables	None.

9.1.3 Group name too long

Length of group name exceeds the length allowed by the Service Policy (MaxGroupLength)

Name	Description
Message Id	<POL0212>
Text	Group name is too long. Maximum length allowed is %1.
Variables	%1 = Maximum length allowed by Service Policy.

9.1.4 Group already exists

If the group name is not unique and the AutoName is set to 'false', then a PolicyException is returned since the group name already exists.

Name	Description
Message Id	POL0213
Text	Group URI %1 already exists. Group not created.
Variables	%1 = Group URI

10 Service policies

Name	Type	Description
MaxGroupLength	xsd:int	Maximum length of the group name (user portion)
MaxGroupMembers	xsd:int	Maximum number of members in a group
SupportNestedGroups	xsd:boolean	Can a group member be a group URI
AddressesDuplicationNotAllowed	xsd:boolean	Indicates whether duplication of addresses is allowed for operations

NOTE: For service policy – "AddressesDuplicationNotAllowed", If alias/group is used,

1. Parlay X GW with Identity Management Framework support can verify that indeed there is a duplicate.
2. If network capability supports alias/group and the Parlay-X GW without Identity Management Framework supporting, then the policy exception of addresses duplication may not have effect fully.
3. If network capability doesn't support alias/group and the Parlay-X GW without Identity Management Framework supporting, the Parlay-X GW should reject the alias/group.

Annex A (normative): WSDL for Address list management

The document/literal WSDL representation of this interface specification is compliant to 3GPP TS 29.199-1 [6] and is contained in text files ;

- parlayx_group_interface_4_0.wsdl
- parlayx_group_service_4_0.wsdl
- parlayx_group_member_interface_4_0.wsdl
- parlayx_group_member_service_4_0.wsdl
- parlayx_group_mgmt_interface_4_0.wsdl
- parlayx_group_mgmt_service_4_0.wsdl
- parlayx_group_types_4_0.xsd

which accompany the present document.

The WSDL files have been verified using the following files:

- 13_wsdl2Java_axis-1_4.bat
- 13_wsdl2Java_axis2-1_4_1.bat

which accompany the present document.

Annex B (informative): Description of Parlay X Web Services Part 13: Address list management for 3GPP2 cdma2000 networks

This annex is intended to define the OSA Parlay X Web Services Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA Parlay X Web Services specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in:

- [1] 3GPP2 X.S0011-D: "cdma2000 Wireless IP Network Standard ", Version 1.1
- [2] 3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 3.0
- [3] 3GPP2 X.S0013-A: "All-IP Core Network Multimedia Domain"

These requirements are expressed as additions to and/or exclusions from the 3GPP Release 8 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

B.1 General Exceptions

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL mappings are not applicable for cdma2000 systems.

B.2 Specific Exceptions

B.2.1 Clause 1: Scope

There are no additions or exclusions.

B.2.2 Clause 2: References

There are no additions or exclusions.

B.2.3 Clause 3: Definitions and abbreviations

There are no additions or exclusions.

B.2.4 Clause 4: Detailed service description

There are no additions or exclusions.

B.2.5 Clause 5: Namespaces

There are no additions or exclusions.

B.2.6 Clause 6: Sequence diagrams

There are no additions or exclusions.

B.2.7 Clause 7: XML Schema data type definition

There are no additions or exclusions.

B.2.8 Clause 8: Web Service interface definition

There are no additions or exclusions.

B.2.9 Clause 9: Fault definitions

There are no additions or exclusions.

B.2.10 Clause 10: Service policies

There are no additions or exclusions.

B.2.11 Annex A (normative): WSDL for Address list management

There are no additions or exclusions.

Annex C (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Cat	Old	New
Sep 2004	CN_25	NP-040360	--	--	Draft v100 submitted to TSG CN#25 for Approval.	--	1.0.0	6.0.0
Jun 2005	CT_28	CP-050221	0001	--	Optionals for Part 13	F	6.0.0	6.1.0
Dec 2005	CT_30	CP-050578	0002	--	Inconsistent part naming in PX response messages	F	6.1.0	6.2.0
Jun 2006	CT_32	CP-060195	0003	--	Change reference to OSA Stage 2 from 23.127 to 23.198	F	6.2.0	6.3.0
Mar 2007	CT_35	CP-070045	0004	--	Add OSA Parlay Web Services support for 3GPP2 networks	F	6.3.0	6.4.0
Mar 2007	CT_35	--	--	--	Automatic upgrade to R7 (no CR needed)	--	6.4.0	7.0.0
Mar 2007	--	--	--	--	Editorial: Aligned 5 Namespaces	--	7.0.0	7.0.1
Jun 2007	--	--	--	--	Renamed in Introduction Part 18:"Device management" to "Device Capabilities and Configuration"	--	7.0.1	7.0.2
May 2008	CT-40	CP-080255	0006	-	In the Group Interface, modify addMember, deleteMember and queryMembers to allow the manipulation of presence or shared lists.	C	7.0.2	8.0.0
May 2008	CT-40	CP-080255	0007	-	In the Group Management Interface, modify createGroup and deleteGroup to allow the manipulation of presence or shared lists and add getOwnersGroups and deleteOwnersGroups to retrieve or delete an owner's groups or lists that have no other specific reference	C	7.0.2	8.0.0
Jun 2008	--	--	--	--	Added WSDL code attachment received from Rapporteur (29199-13-800-doclit.zip)	--	8.0.0	8.0.1
Sep 2009	CT-45	CP-090601	0008	--	Completion of Parlay X Part 13(Address list management) for Release 8	F	8.0.1	8.1.0
2009-12	-	-	-	-	Update to Rel-9 version (MCC)		8.1.0	9.0.0

History

Document history		
V9.0.0	January 2010	Publication