



# **Shared List XDM Specification**

## **Candidate Version 2.0 – 10 Aug 2009**

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**Open Mobile Alliance**  
OMA-TS-XDM\_Shared\_List-V2\_0-20090810-C

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# 1. Scope

This specification describes the data formats and Application Usages for the URI List and Group Usage List documents, which can be used by all OMA enablers.

## 2. References

### 2.1 Normative References

- [Dict] “Dictionary for OMA Specifications”, Version 2.4, Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_4,  
URL: <http://www.openmobilealliance.org/>
- [RFC2119] IETF RFC 2119 “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997,  
URL: <http://www.ietf.org/rfc/rfc2119.txt>
- [RFC4825] IETF RFC 4825 “The Extensible Markup Language (XML) Configuration Access protocol (XCAP)”, J. Rosenberg, May 2007,  
URL: <http://www.ietf.org/rfc/rfc4825.txt>
- [RFC4826] IETF RFC 4826 “The Extensible Markup Language (XML) Formats for Representing Resource Lists”, J. Rosenberg, May 2007,  
URL: <http://www.ietf.org/rfc/rfc4826.txt>
- [SCRRULES] “SCR Rules and Procedures”, Version 1.0, Open Mobile Alliance™, OMA-ORG-SCR\_Rules\_and\_Procedures-V1\_0,  
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- [XDM\_Core] “XML Document Management (XDM) Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Core-V2\_0,  
URL: <http://www.openmobilealliance.org/>
- [XDM\_ERELD-V1\_1] “Enabler Release Document for XDM”, Version 1.1, Open Mobile Alliance™, OMA-ERELD-XDM-V1\_1,  
URL: <http://www.openmobilealliance.org/>
- [XDM\_ERELD-V2\_0] “Enabler Release Document for XDM”, Version 2.0, Open Mobile Alliance™, OMA-ERELD-XDM-V2\_0,  
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- [XSD\_appusage] “XML Schema Definition: XDM Resource List Elements – appusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_rsrlst\_appusage-V1\_0,  
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- [XSD\_ext] “XML Schema Definition: XDM2-Extensions”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_extensions-V1\_0,  
URL: <http://www.openmobilealliance.org/>
- [XSD\_uriusage] “XML Schema Definition: XDM Resource List Elements – uriusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD\_xdm\_rsrlst\_uriusage-V1\_0,  
URL: <http://www.openmobilealliance.org/>

### 2.2 Informative References

- [OMNA\_ListUsageNames] Open Mobile Naming Authority URI- List Usage Name Registry, Open Mobile Alliance™,  
URL: <http://www.openmobilealliance.org/tech/omna/OMNA-URI-ListUsageNames-registry.htm>
- [XDM\_Group] “Shared Group XDM Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-XDM\_Shared\_Group-V1\_0,  
URL: <http://www.openmobilealliance.org/>

## 3. Terminology and Conventions

### 3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

### 3.2 Definitions

<b>Application Unique ID</b>	A unique identifier within the namespace of Application Unique IDs created by this specification that differentiates XCAP Resources accessed by one application from XCAP Resources accessed by another. (Source: [RFC4825])
<b>Application Usage</b>	Detailed information on the interaction of an application with an XCAP Server. (Source: [RFC4825])
<b>Document Selector</b>	A sequence of path segments, with each segment being separated by a "/", that identify the XML document within an XCAP Root that is being selected. (Source: [RFC4825])
<b>Global Document</b>	A document placed under the Global Tree that applies to all users of that Application Usage.
<b>Global Tree</b>	A URI that represents the parent for all Global Documents for a particular Application Usage within a particular XCAP Root. (Source: [RFC4825])
<b>Node Selector</b>	A sequence of path segments, with each segment being separated by a "/", that identify the XML node (element or attribute) being selected within a document. (Source: [RFC4825])
<b>Node Selector Separator</b>	A single path segment equal to two tilde characters "~~" that is used to separate the Document Selector from the Node Selector within an HTTP URI. (Source: [RFC4825])
<b>Node URI</b>	The HTTP URI containing the XCAP Root, Document Selector, Node Selector Separator and Node Selector, resulting in the selection of a specific XML node. (Source: [RFC4825])
<b>Principal</b>	An entity that has an identity, that is capable of providing consent and other data, and to which authenticated actions are done on its behalf. Examples of principals include an individual user, a group of individuals, a corporation, service enablers/applications, system entities and other legal entities (Source: [Dict])
<b>XCAP Resource</b>	An HTTP resource representing an XML document, an element within an XML document, or an attribute of an element within an XML document that follows the naming and validation constraints of XCAP. (Source: [RFC4825])
<b>XCAP Root</b>	A context that includes all of the documents across all Application Usages and users that are managed by a server. (Source: [RFC4825])
<b>XCAP Server</b>	An HTTP server that understands how to follow the naming and validation constraints defined in this specification. (Source: [RFC4825])

### 3.3 Abbreviations

<b>ABNF</b>	Augmented Backus-Naur Form
<b>AUID</b>	Application Unique ID
<b>HTTP</b>	Hypertext Transfer Protocol
<b>IETF</b>	Internet Engineering Task Force
<b>MIME</b>	Multipurpose Internet Mail Extensions
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority
<b>PoC</b>	Push-to-talk over Cellular

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<b>SCR</b>	Static Conformance Requirements
<b>SIP</b>	Session Initiation Protocol
<b>URI</b>	Uniform Resource Identifier
<b>URL</b>	Uniform Resource Locator
<b>XCAP</b>	XML Configuration Access Protocol
<b>XDM</b>	XML Document Management
<b>XDMC</b>	XDM Client
<b>XDMS</b>	XDM Server
<b>XML</b>	Extensible Markup Language

## 4. Introduction

This specification, which is a part of the XML Document Management enabler, describes two types of shared lists:

- The URI List is a list of URIs.
- The Group Usage List is a list of group names or service URIs that are known by the XDMC.

This specification provides the Application Usages for the URI List and Group Usage List documents. It reuses the structure for the “resource-lists” document described in [RFC4826].



## 5. Shared List XDM Application Usages

### 5.1 URI List

This section specifies a mandatory Application Usage for both the Shared List XDMS and the XDMC called URI List, which is a list of URIs.

#### 5.1.1 Structure

The URI List document SHALL conform to the structure of the “resource-lists” document described in [RFC4826] Section 3 with the following extension:

- The <appusages> child element of the <list> element defines the applications which use this list. The <appusages> element contains the Node URI and the AUID value of those Application Usages referring to the <list> element.

NOTE: It is recommended that the <entry-ref> element defined in [RFC4826] not be used as it may create extra roundtrips between an XDMC and an XDMS when resolving a URI List.

#### 5.1.2 Application Unique ID

The URI List document SHALL conform to the AUID for the “resource-lists” document defined in [RFC4826] Section 3.4.1.

#### 5.1.3 XML Schema

The URI List document SHALL conform to the XML schema for the “resource-lists” document described in [RFC4826] Section 3.4.3 with the extension described in [XSD\_appusage].

#### 5.1.4 Default Namespace

The default namespace used in expanding URIs SHALL be “urn:ietf:params:xml:ns:resource-lists” defined in [RFC4826].

#### 5.1.5 MIME Type

The MIME type for the URI List document SHALL be “application/resource-lists+xml” defined in [RFC4826] Section 3.4.2.

#### 5.1.6 Validation constraints

In addition to the XML schema, the validation constraints on a URI List SHALL conform to those described in [RFC4826] Section 3.4.5, with the following clarifications:

The “name” attribute of the <list> element SHALL be present. If this constraint is violated, an HTTP “409 Conflict” response SHALL be returned with the error condition identified by the <constraint-failure> element. If included, the “phrase” attribute of this element SHOULD be set to “Name attribute is required.”

NOTE 1: The value of the “name” attribute of the <list> element must conform to the uniqueness constraints as specified in [RFC4826] Section 3.4.5.

The value of the “name” attribute of a <list> element SHALL NOT be changed during the existence of the corresponding <list> element. If this constraint is violated, an HTTP “409 Conflict” response SHALL be returned with the error condition identified by the <constraint-failure> element. If included, the “phrase” attribute of this element SHOULD be set to “Name attribute cannot be changed.”

NOTE 2: This is to avoid broken references where the “name” attribute is used in an <external> element.

The <appusages> element MAY be present as a child element to the <list> element. If present, the element SHALL be inserted after the child elements as defined by the resource-lists namespace as the place for its extension.

### 5.1.7 Data Semantics

The data semantics for a URI List SHALL conform to those described in [RFC4826] Section 3.4.6 with the additional extensions and clarifications given in this subclause.:

An XDMC may have a need to store a URI List that has one well defined usage. A user can only have one list of this type. The “name” attribute of the <list> element is used to indicate the usage. The syntax used SHALL be a string of the format “oma\_xyz” where xyz is a string containing letters a to z. The naming convention SHALL only be used in a <list> element that is a child element to the root element <resource-lists>. This specification defines the following values for the “name” attribute:

- oma\_allcontacts : This name SHALL be used by an XDMC that has a need to store all users URIs that it knows about, in one list independent of how the URIs are used.
- oma\_buddylist : This name SHALL be used by an XDMC that has a need to store all users URIs that it wants to use for all types of communication, in one list.
- oma\_pocbuddylist: This name SHALL be used by an XDMC that has a need to store users URIs that it wants to use for PoC communication, in one list.
- oma\_blockedcontacts. This name SHALL be used by an XDMC that has a need to store users URIs that it wants to block/reject in a number of Application Usages, in one list.
- oma\_grantedcontacts: This name SHALL be used by an XDMC that has a need to store all users URIs that it wants to grant requests in a number of application usages, in one list.

Enablers that need to define other types of usage can do so in the enabler specification as long as the above syntax is followed and the value is unique.

A listing of all URI List usage names are maintained on the OMNA URI List Usage Name Registry [OMNA\_ListUsageNames].

The <appusages> element SHALL be used to store Application Usages that have a reference to this URI List. The <nodeuri> child element SHALL be used to store a reference to such an Application Usage. The “uri” attribute of this element SHALL contain the Node URI of the document containing the reference. The “auid” attribute SHALL contain the AUID defined for the Application Usage that has the reference. An XDMC MAY insert a <nodeuri> element when inserting a reference to a URI List in any other Application Usage document.

**NOTE:** An XDMC that uses an Application Usage that has a reference to a URI List is recommended to check that the <appusages> element contains a <nodeuri> element with information about the used Application Usage. If the XDMC finds that such an element is not included, the XDMC is recommended to insert a <nodeuri> element with information about the Application Usage in order to keep the information up to date.

### 5.1.8 Naming conventions

The naming conventions for a URI List SHALL conform to those described in [RFC4826] Section 3.4.7.

The XDMC SHALL use a single document for all URI Lists for a particular user. The filename SHALL be “index”.

### 5.1.9 Global documents

This Application Usage defines no Global Documents.

### 5.1.10 Resource interdependencies

The resource interdependencies SHALL conform to those described in [RFC4826] Section 3.4.8, with the following clarifications:

The value of the “name” attribute of the <list> element is referred by other XCAP Resources using the <external> element.

### 5.1.11 Authorization policies

The authorization policies SHALL conform to those described in [XDM\_Core] “Authorization”.

## 5.2 Group Usage List

This section specifies an optional Application Usage for both the Shared List XDMS and the XDMS called Group Usage List, which is a list of group names or service URIs that are known by the XDMS.

The XDMS is responsible for creating and maintaining the Group Usage List.

### 5.2.1 Structure

The Group Usage List document SHALL conform to the structure of the “resource-lists” document described in [RFC4826] Section 3 with the following clarifications:

- 1) The <entry> element MAY include a <uriusages> element;
- 2) The <uriusages> element:
  - a. MAY include one or more <common-usage> elements. Each such element
    - i. SHALL include an “id” attribute;
    - ii. MAY include any other elements from any other namespaces for the purpose of extensibility; and
    - iii. MAY include attributes from any other namespaces for the purpose of extensibility;
  - b. MAY include one or more elements from any other namespace defining an enabler defined uri usage;
- 3) The <list> element SHALL NOT include the <external> and <entry-ref> elements.

### 5.2.2 Application Unique ID

The AUID SHALL be org.openmobilealliance.group-usage-list.

### 5.2.3 XML Schema

The Group Usage List document SHALL conform to the XML schema for the “resource-lists” document described in [RFC4826] Section 3.4.3 with the extension described in [XSD\_uriusage], in [XSD\_ext] and in any enabler unique specification defining a substitution element of the abstract <uriusage> element.

### 5.2.4 Default Namespace

The default namespace used in expanding URIs SHALL be “urn:ietf:params:xml:ns:resource-lists” defined in [RFC4826].

### 5.2.5 MIME Type

The MIME type SHALL be “application/vnd.oma.group-usage-list+xml”.

### 5.2.6 Validation constraints

In addition to the XML schema, the validation constraints on a Group Usage List SHALL conform to those described in [RFC4826] Section 3.4.5, with the following clarifications.

The “name” attribute of the <list> element SHALL be present. If this constraint is violated, an HTTP “409 Conflict” response SHALL be returned with the error condition identified by the <constraint-failure> element. If included, the “phrase” attribute of this element SHOULD be set to “Name attribute is required.”

If the XDMC uses or adds an <entry-ref> or an <external> child element (specified in [RFC4826]) to the <list> element, the Shared List XDMS SHALL return a “409 Conflict” response which includes the XCAP error element <constraint-failure>. If included, the "phrase" attribute SHOULD be set to "Not allowed".

If the “id” attribute of a <common-usage> element has a value that is not unique amongst *all* <common-usage> elements within a <uriusages> element, the Shared Group XDMS SHALL respond with an HTTP “409 Conflict” response as described in [RFC4825]. The error condition SHALL be described by the <uniqueness-failure> error element. The Shared Group XDMS SHALL include one <alt-value> element containing a proposed “id” attribute value in the <uniqueness-failure> error element.

## 5.2.7 Data Semantics

The data semantics for a Group Usage List SHALL conform to those described in [RFC4826] Section 3.4.6 with the following extensions:

The child elements of <uriusages> element SHALL be used to indicate what the “uri” attribute of the <entry> element is used for. Each application can define its specific URI usage(s) by defining its own child element (s) in its specification.

The <common-usage> element MAY be used store any information received about the Group. A typical example of an element containing such information is the <group-advertisement> element received via Extended Group Advertisement as defined by [XDM\_Group]. The “id” attribute SHALL be used to uniquely identify a particular <common-usage> element in the list of <uriusages> child element.

## 5.2.8 Naming conventions

The XDMC MAY store all its service URIs in a single XML document. If so, the filename SHALL be "index".

## 5.2.9 Global documents

This Application Usage defines no Global Documents.

## 5.2.10 Resource interdependencies

The resource interdependencies SHALL conform to those described in [RFC4826] Section 3.4.8.

## 5.2.11 Authorization policies

The authorization policies SHALL conform to those described in [XDM\_Core] “*Authorization*”.

## 6. Subscribing to changes in the XML documents

The Shared List XDMS SHALL support subscriptions to changes in the XML documents as specified in[XDM\_Core] “*Subscriptions to changes in the XML documents*”, subchapters “*Initial subscription*” and “*Generating a SIP NOTIFY request*”.

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version

### A.2 Draft/Candidate Version 2.0 History

Document Identifier	Date	Sections	Description	
Draft Version OMA-TS-XDM-Shared_List_-V2_0	27 June 2006	n/a	PAG agreed initial version based on see OMA-PAG-2006-0327R03	
	18 Dec 2006	App A.1, App A.2, 2, 3, 5	Incorporated CRs: OMA-PAG-2006-0773 OMA-PAG-2006-0779 OMA-PAG-2006-0794	
	05 Feb 2007	Various	OMA-PAG-2007-0044R01	
	15 Feb 2007	5, B, C	Incorporated CRs: OMA-PAG-2007-0009R02 OMA-PAG-2007-0010 OMA-PAG-2007-0101 OMA-PAG-2007-0102 OMA-PAG-2007-0103R02	
	06 Mar 2007	5	Incorporated CR: OMA-PAG-2007-0138R01	
	21 Mar 2007	C.1	Incorporated CR: OMA-PAG-2007-0143	
	05 Apr 2007	6, B, B.1, B.2	Incorporated CRs: OMA-PAG-2007-0148R02 OMA-PAG-2007-0177	
	25 Apr 2007	2, 5	Incorporated CRs: OMA-PAG-2007-0202R02 OMA-PAG-2007-0250R03	
	10 May 2007	5, C.1.2	Incorporated CRs: OMA-PAG-2007-0279R01	
	05 Jun 2007	all	Incorporated CR: OMA-PAG-2007-0332R02	
	14 Jun 2007	5, B.2, C1	Incorporated CRs: OMA-PAG-2007-0402 OMA-PAG-2007-0434	
	Candidate Version OMA-TS-XDM-Shared_List_-V2_0	24 Jul 2007	n/a	Status changed to Candidate by TP (2007-07-11 to 2007-07-24) TP ref # OMA-TP-2007-0284- INP_XDM_V2_0_ERP_for_Candidate_approval
	Draft Version OMA-TS-XDM-Shared_List_-V2_0	29 Nov 2007	5, App B	Incorporated CRs: OMA-PAG-2007-0555 OMA-PAG-2007-0569R01 OMA-PAG-2007-0693R01 OMA-PAG-2007-0694R01
19 Jun 2008		All	Incorporated CRs: OMA-PAG-2008-0264R02 OMA-PAG-2008-0268R01 OMA-PAG-2008-0299R01 OMA-PAG-2008-0302 OMA-PAG-2008-0312R01 OMA-PAG-2008-0340	
25 Aug 2008		B.1, B.2, C.1	Incorporated CR: OMA-PAG-2008-0502	

Document Identifier	Date	Sections	Description
Candidate Version OMA-TS-XDM-Shared_List_-V2_0	16 Sep 2008	n/a	Status changed to Candidate by TP (2008-09-03 to 2008-09-16) TP ref # OMA-TP-2008-0332R01- INP_XDM_V2_0_ERP_for_Candidate_Re_Approval
Draft Version OMA-TS-XDM-Shared_List-V2_0	16 Apr 2009	Appendix B	Incorporated CR: OMA-PAG-2008-0820 Editorial clean-up of appendix A.
Candidate Version OMA-TS-XDM-Shared_List_-V2_0	10 Aug 2009	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2009-0361-INP_XDM_V2_0_ERP_for_Notification

## Appendix B. Static Conformance Requirements (Normative)

The notation used in this appendix is specified in [SCRRULES].

The SCR's defined in the following tables include SCR for:

- Shared List XDM Application Usages

The following tags are used in the Function column to identify the relationship of the requirements in this enabler release [XDM\_ERELD-V2\_0] with the requirements of the previous enabler release [XDM\_ERELD-V1\_1]:

XDMv1.1 – Requirement that is the same in this enabler release [XDM\_ERELD-V2\_0], as in the previous enabler release [XDM\_ERELD-V1\_1].

XDMv2.0 – Requirement that is new in this enabler release [XDM\_ERELD-V2\_0].

### B.1 Shared List XDM Application Usages (Server)

Item	Function	Reference	Requirement
XDM_List-XOP-S-001-M	URI list structure (XDMv1.1)	5.1.1	XDM_Core-XCAP-S-001-M
XDM_List-XOP-S-002-M	Application Unique ID in URI list (XDMv1.1)	5.1.2	
XDM_List-XOP-S-003-M	XML schema of URI list (XDMv1.1)	5.1.3	
XDM_List-XOP-S-004-M	URI list conforms to MIME type (XDMv1.1)	5.1.5	
XDM_List-XOP-S-005-M	Validation constraints, in addition to the XML schema (XDMv1.1)	5.1.6	
XDM_List-XOP-S-006-M	Data semantics of URI list (XDMv1.1)	5.1.7	
XDM_List-XOP-S-007-M	Naming conventions for URI list (XDMv1.1)	5.1.8	
XDM_List-XOP-S-008-M	Authorization policies (XDMv1.1)	5.1.11	XDM_Core-SEC-S-001-M
XDM_List-SUB-S-001-M	Subscribing to changes in XML documents (XDMv2.0)	6	XDM_Core-SUB-S-001-O AND XDM_Core-SUB-S-002-O
XDM_List-XOP-S-009-M	Default name space for URI list (XDMv1.1)	5.1.4	
XDM_List-XOP-S-010-O	Support for Group Usage List (XDMv1.1)	5.2.1	XDM_List-XOP-S-011-O AND XDM_List-XOP-S-012-O AND XDM_List-XOP-S-013-O AND XDM_List-XOP-S-014-O AND XDM_List-XOP-S-015-O AND XDM_List-XOP-S-016-O AND XDM_List-XOP-S-017-O AND XDM_List-XOP-S-018-O AND XDM_List-XOP-S-019-O



Item	Function	Reference	Requirement
XDM_List-XOP-S-011-O	Group Usage List document structure (XDMv1.1)	5.2.1	XDM_Core -XCAP-S-001-M AND XDM_List-XOP-S-010-O
XDM_List-XOP-S-012-O	Application Unique ID in Group Usage List document (XDMv1.1)	5.2.2	XDM_List-XOP-S-010-O
XDM_List-XOP-S-013-O	Default name space for Group Usage List (XDMv1.1)	5.2.4	XDM_List-XOP-S-010-O
XDM_List-XOP-S-014-O	XML schema of Group Usage List document (XDMv1.1)	5.2.3	XDM_List-XOP-S-010-O
XDM_List-XOP-S-015-O	Group Usage List document conforms to MIME type (XDMv1.1)	5.2.5	XDM_List-XOP-S-010-O
XDM_List-XOP-S-016-O	Validation constraints, in addition to the XML schema (XDMv1.1)	5.2.6	XDM_List-XOP-S-010-O
XDM_List-XOP-S-017-O	Data semantics of Group Usage List (XDMv1.1)	5.2.7	XDM_List-XOP-S-010-O
XDM_List-XOP-S-018-O	Naming conventions for Group Usage List (XDMv1.1)	5.2.8	XDM_List-XOP-S-010-O
XDM_List-XOP-S-019-O	Authorization policies for Group Usage List (XDMv1.1)	5.2.11	XDM_List-XOP-S-010-O

## B.2 Shared List XDM Application Usages (Client)

Item	Function	Reference	Requirement
XDM_List-XOP-C-001-M	URI List structure (XDMv1.1)	5.1.1	XDM_Core-XOP-C-003-M
XDM_List-XOP-C-002-M	Application Unique ID in URI List (XDMv1.1)	5.1.2	
XDM_List-XOP-C-003-M	XML schema of URI List (XDMv1.1)	5.1.3	
XDM_List-XOP-C-004-M	URI List conforms to MIME type (XDMv1.1)	5.1.5	
XDM_List-XOP-C-005-M	Validation constraints, in addition to the XML schema (XDMv1.1)	5.1.6	
XDM_List-XOP-C-006-M	Data semantics of URI List (XDMv1.1)	5.1.7	
XDM_List-XOP-C-007-M	Naming conventions for URI List (XDMv1.1)	5.1.8	
XDM_List-XOP-C-008-M	Default name space for URI List (XDMv1.1)	5.1.4	

Item	Function	Reference	Requirement
XDM_List-XOP-C-009-M	Support for Group Usage List (XDMv1.1)	5.2.1	XDM_List-XOP-C-010-O AND XDM_List-XOP-C-011-O AND XDM_List-XOP-C-012-O AND XDM_List-XOP-C-013-O AND XDM_List-XOP-C-014-O AND XDM_List-XOP-C-015-O AND XDM_List-XOP-C-016-O AND XDM_List-XOP-C-017-O AND XDM_List-ERR-C-001-O
XDM_List-XOP-C-010-O	Group Usage List document structure (XDMv1.1)	5.2.1	XDM_Core-XOP-C-003-M AND XDM_List-XOP-C-009-O
XDM_List-XOP-C-011-O	Application Unique ID in Group Usage List document (XDMv1.1)	5.2.2	XDM_List-XOP-C-009-O
XDM_List-XOP-C-012-O	Default name space for Group Usage List (XDMv1.1)	5.2.4	XDM_List-XOP-C-009-O
XDM_List-XOP-C-013-O	XML schema of Group Usage List document (XDMv1.1)	5.2.3	XDM_List-XOP-C-009-O
XDM_List-XOP-C-014-O	Group Usage List document conforms to MIME type (XDMv1.1)	5.2.5	XDM_List-XOP-C-009-O
XDM_List-XOP-C-015-O	Validation constraints, in addition to the XML schema (XDMv1.1)	5.2.6	XDM_List-XOP-C-009-O
XDM_List-XOP-C-016-O	Data semantics of Group Usage List (XDMv1.1)	5.2.7	XDM_List-XOP-C-009-O
XDM_List-XOP-C-017-O	Naming conventions for Group Usage List (XDMv1.1)	5.2.8	XDM_List-XOP-C-009-O
XDM_List-ERR-C-001-O	XDMC handling of HTTP “409 Conflict” response from the XDMS (XDMv1.1)	5.1.6, 5.2.6	XDM_List-XOP-C-001-O AND XDM_List-XOP-C-010-O

## Appendix C. Examples

(Informative)

### C.1 Manipulating URI Lists

#### C.1.1 Obtaining URI Lists

Figure C.1.1 describes how an XDMC obtains URI Lists.

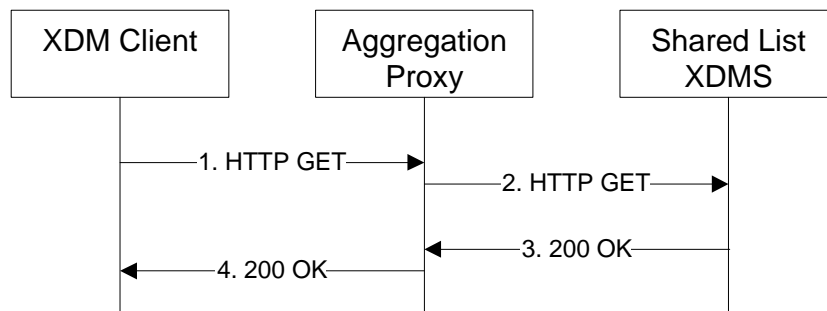


Figure C.1.1 XDMC obtains URI Lists

The details of the flows are as follows:

- 1) The user “sip:ronald.underwood@example.com” wants to obtain the document describing his URI Lists. For this purpose the XDMC sends a HTTP GET request to the Aggregation Proxy. Three lists exist. The list with the Display name “Close Friends” is referenced from the Group document “mygroup1” in the Application Usage org.openmobilealliance.groups and also referenced from the “oma\_buddylist” list.

```

GET /resource-lists/users/sip:ronald.underwood@example.com/index /HTTP/1.1
Host: xcap.example.com
...
  
```

- 2) Based on the AUID, the Aggregation Proxy forwards the request to the Shared List XDMS.
- 3) After the Shared List XDMS has performed the necessary authorisation checks on the request originator, the Shared List XDMS sends an HTTP “200 OK” response including the requested document in the body.

```

HTTP/1.1 200 OK
Etag: "eti87"
...
Content-Type: application/resource-lists+xml; charset="utf-8"

<?xml version="1.0" encoding="UTF-8"?>
<resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists"
  xmlns:oau="urn:oma:xml:xdm:resource-list:appusage">
  <list name="oma_buddylist">
    <external anchor="http://xcap.example.org/resource-lists/users/
      sip:ronald.underwood@example.org/index/~~/resource-lists/list%5Bname=%22list-a%22%5D">
    </external>
  </list>
  <list name="list-a">
    <display-name>Close Friends</display-name>
    <entry uri="sip:hermione.blossom@example.com">
      <display-name>Hermione</display-name>
    </entry>
    <entry uri="tel:+43012349999"/>
    <oau:appusages>
      <oau:nodeuri oau:uri="http://xcap.example.com/org.openmobilealliance.groups/
        users/sip:ronald.underwood@example.com/mygroup1/~~/group/list-
        service%5Buri=%22sip:my_poc_group@example.com%22%5D/list/
        external%5Banchor=%22http://xcap.example.com/resource-lists/users/
        sip:ronald.underwood@example.com/index/~~/resource-lists/
        list%5Bname=%22list-a%22%5D%22%5D"
          oau:auid="org.openmobilealliance.groups"/>
    </oau:appusages>
  
```

```

</list>
<list name="oma_blockedcontacts">
  <entry uri="sip:joe.bloggs@example.com">
    <display-name>Joe</display-name>
  </entry>
</list>
</resource-lists>

```

4) The Aggregation Proxy routes the response to the XDMC.

### C.1.2 Obtaining Group Usage Lists

Figure C.1.2 describes how an XDMC obtains Group Usage Lists.

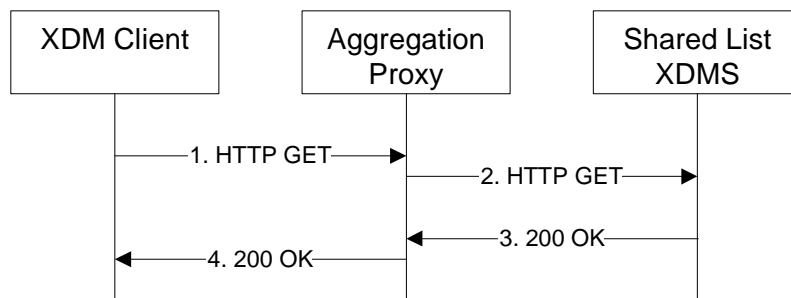


Figure C.1.2 XDMC obtains Group Usage Lists

The details of the flows are as follows:

- 1) The user “sip:ronald.underwood@example.com” wants to obtain a document describing his Group Usage Lists. For this purpose the XDMC sends a HTTP GET request to the Aggregation Proxy.

```

GET /org.openmobilealliance.group-usage-list/users/sip:ronald.underwood@example.com/index/HTTP/1.1
Host: xcap.example.com
...

```

- 2) Based on the AUID, the Aggregation Proxy forwards the request to Shared List XDMS.
- 3) After the Shared List XDMS has performed the necessary authorisation checks on the request originator, the Shared List XDMS sends an HTTP “200 OK” response including the requested document in the body.

```

HTTP/1.1 200 OK
Etag: "eti87"
...
Content-Type: application/vnd.oma.group-usage-list+xml; charset="utf-8"

<?xml version="1.0" encoding="UTF-8"?>
<resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists"
  xmlns:ou="urn:oma:xml:xm:resource-list:oma-uriusage"
  xmlns:oxe="urn:oma:xml:xm:extensions"
  xmlns:oga="urn:oma:xml:poc:group-advertisement"
  xmlns:opu="urn:oma:xml:poc:oma-pocusage"
  xmlns:oiu="urn:oma:xml:im:oma-imusage">
<list name="bookmarkedGroups">
  <entry uri="sip:group1_joebloggs@example.com">
    <display-name>Joe Bloggs's golf team</display-name>
    <ou:uriusages>
      <oxe:common-usage id="a1">
        <oga:group-advertisement>
          <oga:note>This group will meet next week</oga:note>
          <oga:group type="dialed-in">
            <oga:display-name>Joe Bloggs's golf team</oga:display-name>
            <oga:uri>sip:group1_joebloggs@example.com</oga:uri>
          </oga:group>
          <oxe:group-media>
            <oxe:all-media-except>
              <oxe:file-transfer/>
            </oxe:all-media-except>
          </oxe:group-media>
        </oga:group-advertisement>
      </oxe:common-usage>
    </ou:uriusages>
  </entry>
</list>

```

```
        </oxe:all-media-except>
      </oxe:group-media>
      <oxe:supported-services>
        <oxe:service enabler="poc"/>
        <oxe:service enabler="im"/>
      </oxe:supported-services>
      </oga:group>
    </oga:group-advertisement>
  </oxe:common-usage>
  <opu:pocusage>chat</opu:pocusage>
  <oiu:imusage>chat</oiu:imusage>
</ou:uriusages>
</entry>
<entry uri="sip:group1_bob@example.com">
  <display-name>Bob's ski friends</display-name>
  <ou:uriusages>
    <opu:pocusage>prearranged</opu:pocusage>
  </ou:uriusages>
</entry>
</list>
</resource-lists>
```

- 4) The Aggregation Proxy routes the response to the XDMC.