



Shared XDM Specification

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Open Mobile Alliance
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1. Scope

This specification describes the data format and XCAP application usage for the URI List and Group Usage List documents, which can be used by all OMA enablers.

2. References

2.1 Normative References

- [XDM_RD] “XML Document Management Requirements”, Version 1.1, Open Mobile Alliance™, OMA-RD-XDM-V1_1, URL: <http://www.openmobilealliance.org/>
- [XSD_APPUSAGE] “XDM Resource List Elements – appusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_xdm_rsrclist_appusage-V1_0, URL: <http://www.openmobilealliance.org/>
- [XSD_URIUSAGE] “XDM Resource List Elements – uriusage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_xdm_rsrclist_uriusage-V1_0, URL: <http://www.openmobilealliance.org/>
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL: <http://www.ietf.org/rfc/rfc2119.txt>
- [RFC2234] “Augmented BNF for Syntax Specifications: ABNF”. D. Crocker, Ed., P. Overell. November 1997, URL: <http://www.ietf.org/rfc/rfc2234.txt>
- [RFC4825] “The Extensible Markup Language (XML) Configuration Access protocol (XCAP)”, J. Rosenberg, May , 2007, URL: <http://www.ietf.org/rfc/rfc4825.txt>
- [RFC4826] “Extensible Markup Language (XML) Formats for Representing Resource Lists”, J. Rosenberg, May, 2007, URL: <http://www.ietf.org/rfc/rfc4826.txt>
- [XDM_Spec] “XML Document Management (XDM) Specification”, Version 1.1, Open Mobile Alliance™, OMA-TS-XDM_Core-V1_1, URL:<http://www.openmobilealliance.org/>

2.2 Informative References

- [OMNA_ListUsageNames] Open Mobile Naming Authority URI-List Usage Name Registry, Open Mobile Alliance™, <http://www.openmobilealliance.org/tech/omna/OMNA-URI-ListUsageNames-registry.htm>
- [PoC_XDM] “PoC XDM Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-POC_XDM-V1_0, URL:<http://www.openmobilealliance.org/>
- [RLS_XDM] “Resource List Service (RLS) XDM Specification”, Version 1.1, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE_RLS_XDM-V1_1, 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

Global document	A document placed under the XCAP global tree that applies to all users of that application usage.
Global tree	A URL that represents the parent for all global documents for a particular application usage within a particular XCAP root. (Source: [RFC4825])
XCAP Application Usage	Detailed information on the interaction of an application with an XCAP server. (Source: [RFC4825])
XCAP Server	An HTTP server that understands how to follow the naming and validation constraints defined in this specification. (Source: [RFC4825])

3.3 Abbreviations

AUID	Application Unique ID
HTTP	Hypertext Transfer Protocol
IETF	Internet Engineering Task Force
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority
TLS	Transport Layer Security
URI	Uniform Resource Identifier
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XML	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.

The URI List is a convenient way for a principal to group together a number of URIs (e.g., as “Friends”, “Family” etc.) or other resources, where such a list is expected to be reused for a number of different services. Such a list is not enabler-specific and can be re-used wherever a principal has a need to collectively refer to a group of other end users or resources. For example, the reference to a list of “Friends” can be an entry in a PoC Group member list (see [PoC_XDM] for details), or be included in a Presence List (see [RLS_XDM] for details).

This specification provides the data schema and application usage of a URI List and Group Usage List. It reuses the document structure “resource-lists” described in IETF [RFC4826].

5. Shared XDM Application Usages

5.1 URI List

This section specifies a mandatory Application Usage for both the Shared 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 XDM client and an XDM server when resolving a URI List.

5.1.2 Application Unique ID

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

5.1.3 Default Namespace

The default namespace SHALL conform to the default namespace “urn:ietf:params:xml:ns:resource-lists” for the “resource-lists” document described in [RFC4826].

5.1.4 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 following extension described in [XSD_APPUSAGE].

5.1.5 MIME Type

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

5.1.6 Validation constraints

In addition to the XML schema, the additional 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.”

NOTE1: 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 following extension:

- The <appusages> element SHALL be used to store which other application usages that has a reference to this URI List. The <nodeuri> child element SHALL be used to store a reference to such an application usage. The attribute “uri” of this element SHALL contain a node URI as defined in [RFC4825] to the document containing the reference. The attribute “auid” SHALL contain an Application Unique ID [RFC4825] defined for the application usage that has the reference. XDM clients MAY insert a <nodeuri> element when inserting a reference to a URI List in any other application usage document.

NOTE: XDMCs that are using an application usage that has a reference to a URI List are recommended to check that the <appusages> element contains a <nodeuri> element with information about 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 file name SHALL be “index”.

A 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 all 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 all 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].

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 clarification:

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

5.1.11 Authorization policies

The authorization policies for manipulating a URI List SHALL conform to those described in [XDM_Spec] Section 6.4.3.

5.2 Group Usage List

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

1. Extensions on “uriusage” element in <entry> element from "urn:oma.xml:xdm:resource-list:oma-uriusage" namespace defines used uri type. Element “uriusage” is an abstract type. The <uriusage> element is not application specific. Each application can define their specific uri usages in their specifications.
2. Prohibition of using <external> and <entry-ref> so as to avoid complexity.

5.2.2 Application Unique ID

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

5.2.3 Default Namespace

The default namespace SHALL conform to the default namespace “urn:ietf:params:xml:ns:resource-lists” for the “resource-lists” document described in [RFC4826].

5.2.4 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].

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 additional 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 XDMS SHALL return an error code “409 Conflict” response which includes the XCAP error element <constraint-failure>. If included, the “phrase” attribute SHOULD be set to “Not allowed”.

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 <uriusage> element SHALL be used to indicate that the “uri” attribute of the <entry> element is used for. Each application can define their specific URI usages in their specifications.

5.2.8 Naming conventions

The XDMC MAY store all its service URI's 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_Spec] “*Authorization*”.

Appendix A. Static Conformance Requirements (Normative)

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

- Shared XDM Application Usages

Each SCR table identifies a list of supported features as:

Item: Identifier for a feature.

Function: Short description of the feature.

Reference: Section(s) of this specification with more details on the feature.

Status: Whether support for the feature is mandatory or optional. MUST use "M" for mandatory support and "O" for optional support in this column.

Requirement: This column identifies other features required by this feature. If no other features are required, this column is left empty.

This section describes the dependency grammar notation to be used in the Requirement column of the SCR and CCR tables using ABNF [RFC2234].

TerminalExpression = ScrReference / NOT TerminalExpression / TerminalExpression LogicalOperator
TerminalExpression / (" TerminalExpression ")

ScrReference = ScrItem / ScrGroup

ScrItem = SpecScrName "-" GroupType "-" DeviceType "-" NumericId / SpecScrName "-" DeviceType
"-" NumericId

ScrGroup = SpecScrName ":" FeatureType / SpecScrName "-" GroupType "-" DeviceType "-"
FeatureType

SpecScrName = 1*Character;

GroupType = 1*Character;

DeviceType = "C" / "S"; C – client, S – server

NumericId = Number Number Number

LogicalOperator = "AND" / "OR"; AND has higher precedence than OR and OR is inclusive

FeatureType = "MCF" / "OCF" / "MSF" / "OSF"; See Section A.1.6

Character = %x41-5A ; A-Z

Number = %x30-39 ; 0-9

A.1 Shared XDM Application Usages (Server)

Item	Function	Reference	Status	Requirement
Shared_XDM-AU-S-001	URI List structure	5.1.1	M	
Shared_XDM-AU-S-002	Application Unique ID in URI List	5.1.2	M	

Item	Function	Reference	Status	Requirement
Shared_XDM-AU-S-003	XML schema of URI List	5.1.4	M	
Shared_XDM-AU-S-004	URI List conforms to MIME type	5.1.5	M	
Shared_XDM-AU-S-005	Validation constraints, in addition to the XML schema	5.1.6	M	
Shared_XDM-AU-S-006	Data semantics of URI List	5.1.7	M	
Shared_XDM-AU-S-007	Naming conventions for URI List	5.1.8	M	
Shared_XDM-AU-S-008	Authorization policies	5.1.11	M	XDM-XDMS-S-005
Shared_XDM-AU-S-010	Default name space for URI List and also Group Usage List	5.1.3, 5.2.3	M	
Shared_XDM-AU-S-011	Group Usage List document structure	5.2.1	O	
Shared_XDM-AU-S-012	Application Unique ID in Group Usage List document	5.2.2	O	
Shared_XDM-AU-S-013	XML schema of Group Usage List document	5.2.4	O	
Shared_XDM-AU-S-014	Group Usage List document conforms to MIME type	5.2.5	O	
Shared_XDM-AU-S-015	Validation constraints, in addition to the XML schema	5.2.6	O	
Shared_XDM-AU-S-016	Data semantics of Group Usage List	5.2.7	O	
Shared_XDM-AU-S-017	Naming conventions for Group Usage List	5.2.8	O	
Shared_XDM-AU-S-018	Authorization policies for Group Usage List	5.2.11	O	

A.2 Shared XDM Application Usages (Client)

Item	Function	Reference	Status	Requirement
Shared_XDM-AU-C-001	URI List structure	5.1.1	M	
Shared_XDM-AU-C-002	Application Unique ID in URI List	5.1.2	M	
Shared_XDM-AU-C-003	XML schema of URI List	5.1.4	M	
Shared_XDM-AU-C-004	URI List conforms to MIME type	5.1.5	M	
Shared_XDM-AU-C-005	Validation constraints, in addition to the XML schema	5.1.6	M	
Shared_XDM-AU-C-006	Data semantics of URI List	5.1.7	M	
Shared_XDM-AU-C-007	Naming conventions for URI List	5.1.8	M	
Shared_XDM-AU-C-008	Default name space for URI List and also Group Usage List	5.1.3, 5.2.3	O	
Shared_XDM-AU-C-009	Group Usage List document structure	5.2.1	O	
Shared_XDM-AU-C-010	Application Unique ID in Group Usage List document	5.2.2	O	
Shared_XDM-AU-C-011	XML schema of Group Usage List document	5.2.4	O	
Shared_XDM-AU-C-012	Group Usage List document conforms to MIME type	5.2.5	O	
Shared_XDM-AU-C-013	Validation constraints, in addition to the XML schema	5.2.6	O	
Shared_XDM-AU-C-014	Data semantics of Group Usage List	5.2.7	O	
Shared_XDM-AU-C-015	Naming conventions for Group Usage List	5.2.8	O	

Appendix B. Examples

(Informative)

B.1 Manipulating URI Lists

B.1.1 Obtaining URI Lists

Figure B.1.1 describes how an XDM client obtains URI Lists.

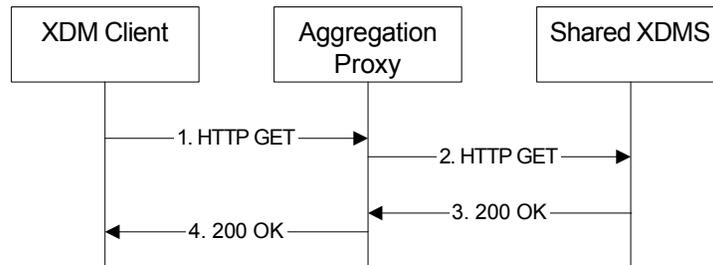


Figure B.1.1 XDM Client obtains URI Lists

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. Two main lists and one sublist exist. The sublist with the name “close-friends” is referenced from the poc group document “mypocgroup1” in the application usage org.openmobilealliance.poc-groups.

```

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 Shared XDMS.
- 3) After the Shared XDMS has performed the necessary authorisation checks on the request originator, the Shared 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

<?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">

    <list name="close-friends">
      <display-name>Close Friends</display-name>
      <entry uri="sip:hermione.blossom@example.com">
        <display-name>Hermione</display-name>
      </entry>
      <entry uri="tel:5678;phone-context="+43012349999"/>
      <oau:appusages>
        <oau:nodeuri oau:uri="http://xcap.example.com/org.openmobilealliance.poc-
groups/mypocgroup1/~/group/list/list-
service/list/external%5banchor=%22http://xcap.example.com/service/resource-
lists/users/sip:ronald.underwood@example.com/index/~/resource-
lists/list%5bname=%22oma_buddylist%22%5d/list%5bname=%22close-friends%22%5d%5d"
oau:auid="org.openmobilealliance.poc-groups"/>
        </oau:appusages>
      </list>
      <entry uri="sip:joe.blogs@example.com">
        <display-name>Joe</display-name>
      </entry>
    </list>
  </resource-lists>
  
```

```
<list name="oma_blockedcontacts">
</list>
</resource-lists>
```

- 4) The Aggregation Proxy routes the response to the XDM Client.

B.1.2 Obtaining Group Usage Lists

Figure B.1.2 describes how an XDM client obtains Group Usage lists.

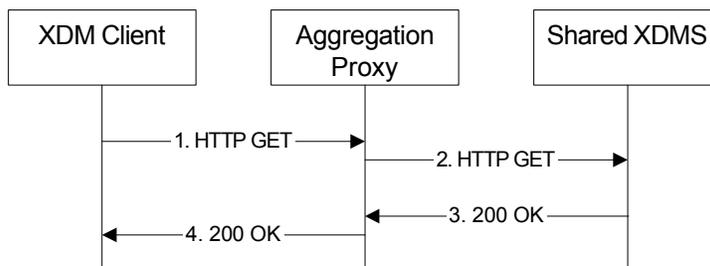


Figure B.1.2 XDM Client obtains Group Usage lists

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 XDMS.

- 3) After the Shared XDMS has performed the necessary authorisation checks on the request originator, the Shared 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

<?xml version="1.0" encoding="UTF-8"?>
<resource-lists xmlns="urn:ietf:params:xml:ns:resource-lists"
  xmlns:ou="urn:oma:xml:xdm:resource-list:oma-uriusage"
  xmlns:opu="urn:oma:xml:xdm:oma-pocusage">
  <list name="bookmarkedPoCGroups">
    <entry uri="sip:group1_joebloggs@example.com">
      <display-name>Joe's golf friends</display-name>
      <ou:uriusages>
        <opu:pocusage>chat</opu:pocusage>
      </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 XDM Client.

Appendix C. Change History

(Informative)

C.1 Approved Version History

Reference	Date	Description
OMA-TS-XDM_Shared-V1_0-20060612-A	12 Jun 2006	Status changed to approved OMA-TP-2006-0196R03-INP_XDM_V1_0_for_final_approval.
OMA-TS-XDM_Shared-V1_0_1-20061128-A	17 Nov 2006	Incorporated CRs: OMA-PAG-2006-0383R03 OMA-PAG-2006-0695R01 OMA-PAG-2006-0745R01

C.2 Draft/Candidate Version 1.1 History

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