# Contents

1. **SCOPE** .................................................................................................................................................................................. 4  
2. **REFERENCES** .................................................................................................................................................................... 5  
   2.1 **NORMATIVE REFERENCES** ............................................................................................................................................... 5  
   2.2 **INFORMATIVE REFERENCES** ........................................................................................................................................ 5  
3. **TERMINOLOGY AND CONVENTIONS** .................................................................................................................................. 6  
   3.1 **CONVENTIONS** ................................................................................................................................................................. 6  
   3.2 **DEFINITIONS** .................................................................................................................................................................... 6  
   3.3 **ABBREVIATIONS** ............................................................................................................................................................. 6  
4. **INTRODUCTION** .................................................................................................................................................................... 7  
5. **SHARED XDM APPLICATION USAGES** ............................................................................................................................... 8  
   5.1 **URI LIST** ........................................................................................................................................................................... 8  
      5.1.1 Structure ....................................................................................................................................................................... 8  
      5.1.2 Application Unique ID ...................................................................................................................................................... 8  
      5.1.3 XML Schema .................................................................................................................................................................. 8  
      5.1.4 MIME Type .................................................................................................................................................................... 8  
      5.1.5 Validation constraints ..................................................................................................................................................... 8  
      5.1.6 Data Semantics .............................................................................................................................................................. 8  
      5.1.7 Naming conventions .................................................................................................................................................... 8  
      5.1.8 Global documents ....................................................................................................................................................... 8  
      5.1.9 Resource interdependencies ......................................................................................................................................... 8  
      5.1.10 Authorization policies ................................................................................................................................................ 8  
6. **SUBSCRIBING TO CHANGES IN THE XML DOCUMENTS** ..................................................................................................... 9  

APPENDIX A. **STATIC CONFORMANCE REQUIREMENTS** (NORMATIVE) .................................................................................. 10  
   A.1 **SHARED XDM APPLICATION USAGES (SERVER)** ......................................................................................................... 10  
   A.2 **SHARED XDM APPLICATION USAGES (CLIENT)** ........................................................................................................ 11  

APPENDIX B. **EXAMPLES** (INFORMATIVE) .......................................................................................................................... 12  
   B.1 **MANIPULATING URI LISTS** ............................................................................................................................................ 12  
      B.1.1 Obtaining URI Lists .......................................................................................................................................................... 12  

APPENDIX C. **CHANGE HISTORY** (INFORMATIVE) .................................................................................................................. 13  
   C.1 **APPROVED VERSION HISTORY** ..................................................................................................................................... 13  
   C.2 **DRAFT/CANDIDATE VERSION 1.0 HISTORY** .................................................................................................................. 13
1. **Scope**

This specification describes the data format and XCAP application usage for the shared document, URI List, which can be used by all OMA enablers.
2. References

2.1 Normative References


Note: Work in progress

Note: Work in progress


2.2 Informative References


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

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<tbody>
<tr>
<td>AUID</td>
<td>Application Unique ID</td>
</tr>
<tr>
<td>HTTP</td>
<td>Hypertext Transfer Protocol</td>
</tr>
<tr>
<td>IETF</td>
<td>Internet Engineering Task Force</td>
</tr>
<tr>
<td>OMA</td>
<td>Open Mobile Alliance</td>
</tr>
<tr>
<td>TLS</td>
<td>Transport Layer Security</td>
</tr>
<tr>
<td>URI</td>
<td>Uniform Resource Identifier</td>
</tr>
<tr>
<td>XCAP</td>
<td>XML Configuration Access Protocol</td>
</tr>
<tr>
<td>XDM</td>
<td>XML Document Management</td>
</tr>
<tr>
<td>XML</td>
<td>Extensible Markup Language</td>
</tr>
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</table>
4. Introduction

This specification, which is a part of the XML Document Management enabler, describes a particular type of list, the URI List, which 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_XDMS] for details), or be included in a Presence List (see [RLS_XDMS] for details).

This specification provides the data schema and application usage of a URI List. It reuses the document structure “resource-lists” described in IETF [XCAP_List].
5. Shared XDM Application Usages

5.1 URI list

5.1.1 Structure
The URL List document SHALL conform to the structure of the “resource-lists” document described in [XCAP_List] Section 3.

5.1.2 Application Unique ID
The URI List SHALL conform to the AUID for “resource-lists” defined in [XCAP_List] 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 [XCAP_List] Section 3.4.3.

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

5.1.5 Validation constraints
In addition to the XML schema, the additional validation constraints on a URI List SHALL conform to those described in [XCAP_List] Section 3.4.4.

5.1.6 Data Semantics
The data semantics for a URI List SHALL conform to those described in [XCAP_List] Section 3.4.5.

5.1.7 Naming conventions
The naming conventions for a URI List SHALL conform to those described in [XCAP_List] Section 3.4.6.

The XDMC MAY use a single file for all shared URI Lists for a particular user. Such a <resource-lists> document contains <list> entries with name attributes, each of which identifies one of the user's shared URI Lists.

If a single file as described above is used, the filename SHALL be "index". The "name" attribute of each <list> element SHALL be present and SHALL be unique amongst all <list> elements within the same parent element.

NOTE: The XCAP client is not constrained to using this approach, and may choose to place shared URI lists in one or more documents. The approach above is useful as a simpler way for moving a user's shared URI lists between different UE, e.g., from an old to a new one. This approach can only be used for shared URI lists. The Directory application usage is needed for restoring/recreating all the user's documents across all applications.

5.1.8 Global documents
This application usage defines no global documents.

5.1.9 Resource interdependencies
This application usage defines no additional resource interdependencies.

5.1.10 Authorization policies
The authorization policies for manipulating a URI List SHALL conform to those described in [XDM_Spec] Section 6.4.3.
6. Subscribing to changes in the XML documents

The Shared XDMS SHALL support subscriptions to changes in the XML documents as defined by the procedures in section 6.2.2.1 step 2 to step 6 and 6.2.2.2 of the [XDM_Spec].
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)

<table>
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<th>Reference</th>
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<td>5.1.1</td>
<td>M</td>
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<td>Shared_XDM-AU-S-002</td>
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<td>Item</td>
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<td>XDM-XDMS-S-005</td>
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**A.2 Shared XDM Application Usages (Client)**

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<tr>
<td>Shared_XDM-AU-C-002</td>
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Appendix B. Examples  

B.1 Manipulating URI Lists  

B.1.1 Obtaining URI Lists  

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

![Diagram of XDM client, Aggregation Proxy, and Shared XDMS with numbered steps]

The details of the flows are as follows:

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

```
GET http://xcap.example.com/services/resource-lists/users/sip:ronald.underwood@example.com/friends.xml/HTTP/1.1
Content-Length: 0
```

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:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <list name="friends">
        <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"/>
        </list>
        <external anchor="http://xcap.example.com/services/resource-lists/users/sip:hermione.blossom@example.com/society.xml/~~/resource-lists/list%5b@name=%22spew%22%5d">
            <display-name>society</display-name>
        </external>
    </list>
</resource-lists>
```

4) The Aggregation Proxy routes the response to the XDM Client.
# Appendix C. Change History

## C.1 Approved Version History

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## C.2 Draft/Candidate Version 1.0 History

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