



Presence Content XDM Specification

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Open Mobile Alliance
OMA-TS-Presence-SIMPLE_Content_XDM-V1_0-20120710-A

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1. Scope

The Presence Content XDMS specific data formats and Application Usages are described in this specification.

2. References

2.1 Normative References

- [Dict] “Dictionary for OMA Specifications”, Open Mobile Alliance™,
URL: <http://www.openmobilealliance.org/>
- [PRS_RD] “Presence SIMPLE Requirements”, Version 2.0, Open Mobile Alliance™, OMA-RD-Presence_SIMPLE-V2_0,
URL: <http://www.openmobilealliance.org/>
- [PRS_Spec] “Presence SIMPLE Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE-V2_0,
URL: <http://www.openmobilealliance.org/>
- [RFC2119] IETF RFC 2119 “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, Mar 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>
- [SCRRULES] “SCR Rules and Procedures”, Version 1.0, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures-V1_0,
URL: <http://www.openmobilealliance.org/>
- [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_RD] “XML Document Management Requirements”, Version 2,0, Open Mobile Alliance™, OMA-RD-XDM-V2_0,
URL: <http://www.openmobilealliance.org/>
- [XSD_prsContent] “XML Schema Definition: Schema for the Presence Content Application Usage”, Version 1.0, Open Mobile Alliance™, OMA-SUP-XSD_prs_presContent-V1_0,
URL: <http://www.openmobilealliance.org/>

IETF

OMA

2.2 Informative References

- [PRS_AD] “Presence SIMPLE Architecture”, Version 2.0, Open Mobile Alliance™, OMA-AD-Presence_SIMPLE-V2_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

Application Unique ID	Use definition from [XDM_Core].
Application Usage	Use definition from [XDM_Core].
Global Document	Use definition from [XDM_Core].
Global Tree	Use definition from [XDM_Core].
Home Directory	A URI that represents the parent for all documents for a particular user for a particular application usage within a particular XCAP root. (source: [RFC4825])
Presence Content	Media file logically connected with Presence Information. The Presence Information Element includes the URI that references the media file stored in the Presence Content XDMS.
Presence Information	Use definition from [PRS_RD].
Presence Information Element	Use definition from [PRS_RD].
Primary Principal	Use definition from [XDM_RD].
Principal	Use definition from [Dict].
Users Tree	Use definition from [XDM_Core].
XCAP Resource	Use definition from [XDM_Core].
XCAP Root	Use definition from [XDM_Core].
XCAP Server	Use definition from [XDM_Core].
XCAP User Identifier	Use definition from [XDM_Core].

3.3 Abbreviations

AUID	Application Unique ID
HTTP	Hyper Text Transfer Protocol
IETF	Internet Engineering Task Force
MIME	Multipurpose Internet Mail Extensions
OMA	Open Mobile Alliance
SIMPLE	SIP for Messaging and Presence Leveraging Extensions
SIP	Session Initiation Protocol
URI	Uniform Resource Identifier
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XDMS	XML Document Management Server
XML	eXtensible Markup Language
XUI	XCAP User Identifier

4. Introduction

This specification describes the Application Usage for the Presence Content document, which is used for storing media files which can be referenced as part of Presence Information. When a Presence Information Element includes a URI, such URI may reference the Presence Content stored in the Presence Content XDMS defined by this specification.

The Presence Content XDMS (see [PRS_AD]) is the logical repository for Presence Content documents. The common protocol specified in [XDM_Core] is used for access and manipulation of such Presence Content by authorized Principals. The authorization of the Presence Content may be shared with authorization of Presence Information.

5. Presence Content XDM Application Usages

The Presence Content Application Usage includes the definition for generic Presence Content stored in the Principal's Home Directory and also further details for particular Presence Content stored in appropriate subfolders of the Principal's Home Directory.

5.1 Presence Content

5.1.1 Structure

The Presence Content document SHALL conform to the schema definition provided in section 5.1.3.

The <content> root element:

- a) MAY include a <mime-type> element containing the MIME type of the data included in the file;
- b) MAY include an <encoding> element containing the method used to encode the data included in the file;
- c) MAY include a <description> element containing free text describing the data content of the file;
- d) SHALL include a <data> element containing the Presence Content; and
- e) MAY include any other elements or attributes from any other namespaces for the purposes of extensibility.

5.1.2 Application Unique ID

The AUID SHALL be "org.openmobilealliance.pres-content".

5.1.3 XML Schema

The Presence Content XML document SHALL be composed according to the XML schema described in [XSD_prsContent].

5.1.4 Default Namespace

The default namespace used in expanding URIs SHALL be "urn:oma:xml:prs:pres-content" defined in section 5.1.3.

5.1.5 MIME Type

The MIME type for the Presence Content document SHALL be "application/vnd.oma.pres-content+xml".

5.1.6 Validation Constraints

The Presence Content document SHALL conform to the XML schema described in section 5.1.3, with the clarifications given in this section.

In case specific constraints apply to a particular Presence Content, further clarifications are given in section 5.1.12. The constraints for a particular Presence Content are applicable to documents stored in the corresponding subfolder of the Primary Principal's Home Directory.

The constraints for a particular Presence Content MAY define allowed value(s) and/or a default value for the <mime-type> element. If the <mime-type> element is missing and a default value is not defined, or the value of the <mime-type> element does not match any allowed value, the Presence Content XDMS SHALL return an HTTP 409 (Conflict) response as described in [RFC4825], including the <constraint-failure> error element. If included, the "phrase" attribute SHOULD be set to "Unsupported MIME type".

The local policy of the service provider or a particular Presence Content MAY specify methods of encoding of the Presence Content. If the value of the <encoding> element is not recognized as a value supported by the Presence Content XDMS, the

Presence Content XDMS SHALL return an HTTP 409 (Conflict) response as described in [RFC4825], including the <constraint-failure> error element. If included, the “phrase” attribute SHOULD be set to “Unsupported encoding”.

Local policy of the service provider MAY limit the size of the Presence Content document stored in the Presence Content XDMS. If such limitation is present and the size of the file to be stored in the Presence Content XDMS exceeds the limit, the Presence Content XDMS SHALL return an HTTP 409 (Conflict) response as described in [RFC4825], including the <constraint-failure> error element. If included, the “phrase” attribute SHOULD be set to “Size limit exceeded, maximum allowed size is X bytes” where X is the maximum allowed size of a document in bytes.

Local policy of the service provider MAY limit the total storage available for the Primary Principal. If such limitation is present and the requested total storage exceeds the limit, the Presence Content XDMS SHALL return an HTTP 409 (Conflict) response as described in [RFC4825], including the <constraint-failure> error element. If included, the “phrase” attribute SHOULD be set to “User storage limit exceeded”.

5.1.7 Data Semantics

The value of the <data> element SHALL be the media file of the MIME type indicated by the <mime-type> element and encoded using the method indicated by the <encoding> element.

The value of the <mime-type> element identifies the MIME type of the data. The XDMS supporting the Presence Content Application Usage SHALL provide the corresponding MIME type in the <mime-type> element, unless a default MIME type has been specified for a particular Presence Information Element.

The value of the <encoding> element identifies the method used to encode the data. The XDMS supporting the Presence Content Application Usage SHALL support at least the “base64” encoding method. Further encoding methods as required by a particular Presence Content or local policy MAY also be supported. If the <encoding> element is absent, only XML character escaping is applied on the data.

5.1.8 Naming Conventions

Any name except those prefixed with “oma_” can be used as the name of a Presence Content document.

The name of the subfolder used for storing Presence Content documents for a particular Presence Content that is described in section 5.1.12 SHALL be prefixed with “oma_”.

5.1.9 Global Documents

This Application Usage defines no Global Documents.

5.1.10 Resource Interdependencies

This Application Usage defines no additional resource interdependencies.

5.1.11 Authorization Policies

The authorization policies for manipulating a Presence Content document SHALL conform to those described in [XDM_Core] “Authorization” with the following exception:

- Principals other than the Primary Principal SHALL have permission to perform retrieve operations of any Presence Content document stored directly in the Home Directory.

5.1.12 Presence Content Specific Details

This section defines Presence Content details related to specific Presence Information Elements.

5.1.12.1 Status Icon

5.1.12.1.1 Validation Constraints

The <mime-type> element SHALL be included and contain one of the following values:

- image/gif;
- image/jpeg; or
- image/png.

The <encoding> element SHALL be included and contain the value “base64”.

5.1.12.1.2 Naming Conventions

The subfolder of the Primary Principal’s Home Directory used for storing Presence Content documents for the Status Icon Presence Content SHALL be named “oma_status-icon”.

5.1.12.1.3 Authorization Policies

The authorization policies defined in section 5.1.11 for manipulating a Presence Content document SHALL be restricted in the following way:

- Principals other than the Primary Principal SHALL have permission to perform retrieve operations from the “oma_status-icon” subfolder of the Primary Principal’s Home Directory only if the Principal is allowed to see the <status-icon> Presence Information Element according to the Presence Subscription Rules of the Primary Principal.

When receiving a request to access a resource in the “oma_status-icon” subfolder, the Presence Content XDMS SHALL fetch the Presence Subscription Rules of the Primary Principal from the Presence XDMS and check whether the Principal is granted permission to access the <status-icon> Presence Information Element by the Primary Principal:

- The Presence Content XDMS SHALL evaluate the combined permissions according to the procedures described in [XDM_Core] “Combining Permissions” with the following clarifications:
 - If an attempt to resolve an <external-list> condition element fails, the Presence Content XDMS SHALL regard the Presence Authorization Rules document as invalid and reject the request by responding to the request with an HTTP 403 (Forbidden) error response.
 - If there is no matching rule then the Presence Content XDMS SHALL reject the request by responding to the request with an HTTP 403 (Forbidden) error response.
 - In case of matching rules, the Presence Content XDMS SHALL evaluate the <sub-handling> element of the combined permissions:
 - If the value is “allow”, the Presence Content XDMS SHALL check whether the <status-icon> element is granted to the Principal (e.g. <provide-status-icon> for <person> or <tuple> element is set to true or other permissions resulting in granting the <status-icon> element). If granted, the Presence Content XDMS SHALL accept the retrieve operation request by responding to the request with an HTTP 200 (OK) response and return the content of the “oma_status-icon” subfolder to the Principal.
 - If the value is other than “allow”, the Presence Content XDMS SHALL reject the request by responding to the request with an HTTP 403 (Forbidden) error response.

6. Subscribing to Changes in the XML Documents

The Presence Content XDMS MAY support subscriptions to changes in the XML documents as specified in [XDM_Core] “*Subscriptions to Changes in the XML Documents*”.

Appendix A. Change History

(Informative)

A.1 Approved Version 1.0 History

Reference	Date	Description
OMA-TS-Presence_SIMPLE_Content_XDM-V1_0-20120710-A	10 Jul 2012	Status changed to Approved by TP: OMA-TP-2012-0268-INP_Presence_SIMPLE_V2_0_ERP_for_Final_Approval

Appendix B. Static Conformance Requirements (Normative)

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

B.1 Presence Content XDM Application Usage (Server)

Item	Function	Reference	Requirement
PRS_CONTXDM-XOP-S-001-M	Structure of Presence Content document	5.1.1	
PRS_CONTXDM-XOP-S-002-M	Application Unique ID of Presence Content document	5.1.2	
PRS_CONTXDM-XOP-S-003-M	XML schema of Presence Content document	5.1.3	
PRS_CONTXDM-XOP-S-004-M	Default namespace for Presence Content document	5.1.4	
PRS_CONTXDM-XOP-S-005-M	MIME type of Presence Content document	5.1.5	
PRS_CONTXDM-XOP-S-006-M	Validation constraints, in addition to the XML schema, for the Presence Content document	5.1.6	
PRS_CONTXDM-XOP-S-007-M	Data semantics of Presence Content document	5.1.7	
PRS_CONTXDM-XOP-S-008-M	Naming conventions for Presence Content document	5.1.8	
PRS_CONTXDM-XOP-S-009-M	Authorization policies of Presence Content document	5.1.11	
PRS_CONTXDM-XOP-S-0010-O	Subscription to XML document changes	6	

B.2 Presence Content XDM Application Usage (Client)

Item	Function	Reference	Requirement
PRS_CONTXDM-XOP-C-001-M	Structure of Presence Content document	5.1.1	
PRS_CONTXDM-XOP-C-002-M	Application Unique ID of Presence Content document	5.1.2	
PRS_CONTXDM-XOP-C-003-M	XML schema of Presence Content document	5.1.3	
PRS_CONTXDM-XOP-C-004-M	Default namespace for Presence Content document	5.1.4	
PRS_CONTXDM-XOP-C-005-M	MIME type of Presence Content document	5.1.5	
PRS_CONTXDM-	Validation constraints, in	5.1.6	

Item	Function	Reference	Requirement
XOP-C-006-M	addition to the XML schema, for the Presence Content document		
PRS_CONTXDM-XOP-C-007-M	Data semantics of Presence Content document	5.1.7	
PRS_CONTXDM-XOP-C-008-M	Naming conventions for Presence Content document	5.1.8	

Appendix C. Examples

C.1 Manipulating Presence Content Document

C.1.1 Obtaining Presence Content Document

Figure C.1 describes how the XDMC obtains Presence Content Document.

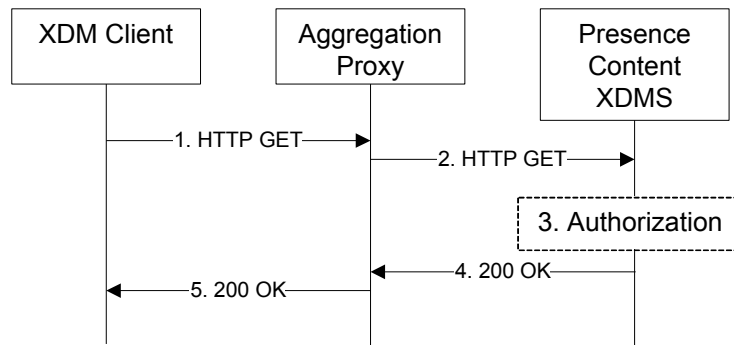


Figure C.1- XDMC obtains Presence Content Document

The details of the flows are as follows:

- 1) The user “sip:ronald.underwood@example.com” received a notification with a Presence Information of his friend “sip:hermione.blossom@example.com”. The Presence Information includes a URI pointing to the status icon. The user “sip:ronald.underwood@example.com” wants to obtain the document with the status icon. For this purpose the XDMC sends an HTTP GET request to the Aggregation Proxy.

```

GET /org.openmobilealliance.pres-content/users/sip:hermione.blossom@example.com/oma_status-
  icon/icon_document HTTP/1.1
Host: xcap.example.com
...
X-3GPP-Intended-Identity: "sip:ronald.underwood@example.com"
...
  
```

- 2) Based on the AUID, the Aggregation Proxy forwards the request to the Presence Content XDMS.
- 3) The Presence Content XDMS performs authorization check. As the request is targeted to the Presence Content document stored in the oma_status-icon subfolder, the Presence Content XDMS fetches the Presence Subscription Rules of user “sip:hermione.blossom@example.com” and evaluates the permission of user “sip:ronald.underwood@example.com” to obtain a <status-icon> element from the <person> or <tuple> element. If allowed, the user “sip:ronald.underwood@example.com” is authorized to obtain the Presence Content document with the status icon.
- 4) After the Presence Content XDMS has performed the necessary authorization checks on the request originator, the Presence Content XDMS sends an HTTP 200 (OK) response including the requested document in the body.

```

HTTP/1.1 200 OK
Etag: "ett5e"
...
Content-Type: application/vnd.oma.pres-content+xml; charset="utf-8"

<?xml version="1.0" encoding="UTF-8"?>
<content xmlns="urn:oma:xml:prs:pres-content">
  <mime-type>image/png</mime-type>
  <encoding>base64</encoding>
  <description>Attending OMA Meeting</description>
  
```

```

<data>iVBORwOKGgoAAAANSUHEUGAAAI8AAAAAtCAMAAACgachEAAAABGdBtUEAAK/INwWK6QAAAB1ORVh0U29mdHdhcmUAQW
RvYmUgSw1hZ2VSZWFkeXhJZTAAAGAUEXURazWxbm7uzAzMgAUbqOnpNv5efzlx5aamfPz84WiilWrzGUKCdhP5WzoaPvZr/
S0aOvt7e/WzNjr41VYWAQuf8DDw8lyYf3+/uHi4u+cn93e3sTi1ToTbPjKkUVJSMnLynBzr0VQl+a+tuyIE9LT07A5Mkcjdv
3x5IbErvKoVna7o5nMuItzrePx7IzHsZWayFYlgaQGfHNWmejp9Oz28vn5+teVh/Xm30plomBkZkXJfPy+TJAi6uZxM3F3u
6ULI6Kvb1aScs82nB0c50AApCTk857c6KpVPGfR7VJPGu3m56hoH+Dg/v6/eDa633Ap//+9+roPL39eTh7+2PILGzs/z38+
2ONMzPz/b39/737uTm5dnZ2j5CQfr7+1BUU/77+ebo5/Dv8l1ldofz9/Ht+fcXHx6utrVlGYPb2921vvhUXFzK8PIuPjiUoJ+
+WNR0fHoyOjmxvb1ldXIGovenp6ep9AJ+kzfa9ec/ROaQlJEtPTk5OT9XWlGAAAP//8goVXMAAAcgsURBVHja7JjrV9pIFM
AFCSRGFEEqooIKRYoVtFwFz9aIjxKlaleQkUp5BEEERfTzhfnXd2YSQggg7na3x7On9lPmlfnln1NosDLko7fPL95/gOer4
t9feOHh30vg2fxcPvj3uvl2dn17c8vgKdv4ePrP2eRbG1tP7E4HaCOXNFrbBgwe6+4osYktFIJj4dVNEExKehmPh9Ak2/IsHr
6CPMtYtppbHW9GUtXm6goTOJWLSAdNtBvdnbnhFRic9PUqqkc3REj1+MVuue5ulbqPHMbi20wCH4TXnJSzYL5MXunBVwtUna2h
xNXrK4kvH9PI+1Ui9UdcAo5cxFxeUoqL4LbLFFe+TPMiaq+c1i89rf142J4o3yHGUN2HgFV/gb+IRrK+EhoqIym081AoeL1
gahRsVS+L6uhjhUVNP8EYmL7za+xPaMrLnV8huD7rXu+tMhP/AArbYuF2LW7zFqtCjBQ2EhG2zqHHxf28BnF/VHGEGQQRaz
pjuRZmV5a+v4eGTQC2tt7PbulvH0CwHx319raTtdxbWYQvTFT8ysNPps0ekT2krHz3bdoWr4sNip0GD110WwmX10cusLtBp
73Y51QvTG2ZzAaLsYwx8dxPDzu2nkLZU18A2+kUg/Gr1RVN7sSehVSK7aiRpJ/oAVNCFKivsYs1nq7Ozv7+xc2pcd3/76zt
t3SDarPze0/I0h5C8P0MgGlBLrD0dg41pozKOzQypNIDCTdLUCDQVkpACIBwF1y3jimxBnBspb0aMrFde2BSmiYzIJPBqhM4
aMVfTljKAfJfyYaP0OWdeFajw/MA4E6pLb9yamcTjeVS2IQqZQPdACyco5dFlq6eIhOZ5SKtVp1qAxxKyHi+8zyN+gEH7x
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zxv6AfevGY2/K8H+Nx+mONPOuOYd6CulraT6qt/VT1c4HIU215jsdWV1f7V/vHVtrzBOThhw9AyL/a6wemGr1/NeUZHRtbbhU
yjTXiOZzDP8MxBq/hzVI0/7fXDB/Nw056VD6PfkEwPNM1oa8PDDsfw8M4z4nN7/YRxfK5to7vD75P71+b3USgfuPtWFzvwsg
ZEHFBCr6RrQDhZKkPgWfoBOP1eVd04bWFxj5wntvljjevrH+nzzcuegq0tKyUIUzZovUK6wcpJior1+gA4dd+VRgTznovQAI2
EzHrBysN59cPHMutuAETJRgmIsNH4WktYz9ANSQiFSpBJRnO6a8sDMud9q+0ajemxRHZ5DP9CkaenSQiseKcTZ400R1NTU3
NxWWdC+s58oJrFpSn9Ugp3IfUBSY1doZo2hSKFB1Pz5vB3ZET2c76oaEhvx50riozNifeL8SxkAUeRRUhdBtirR7K0zQtFg
Wh6v2CNsBY7aHpCtuE595m+2L7o7deRUOTkx0dkKgxR30NXF/Jb1Dn1pJVDPhmZLBEVhv2YMkq9RYFXowzh8katF428qhtXw
YHBzdsvRM1w5nq8LvcCEg/98vvp/e2m0EMtDsiECEav9/lREC/nqeX5xk8td3cq78iHOcnv9Pt9vvdKkf+vOLkP9jTiv23eE
ZsG5hn43S3d0T9GY5+gjRut9Pvn+zQ1627K3h8TYhI7zkwenF1E0/aMUE8KRYXMYq5BEYyWAK6Z/GcDNo2kIZOb970jvScgT
m3y40F8gzVRUqdkvN1LXEwgF48j8BIkr9RJGCxpAhHbzGoIh1YAr6GHYwuPMA2sZuLUnWECEQPwOomUaL4VaI+PN7oPqQd
uXjZvT09039yM9EyKP0++uxwHELbrapABh0ACS4jTgsmgIotgtghgr81bAPqZAwUJ4wbKgsApAeQoXyP0VsVyaMBe8gAvkIu
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5) The Aggregation Proxy routes the response to the XDMC.