



# Presence Content XDM Specification

Candidate Version 1.0 – 23 Dec 2008

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**Open Mobile Alliance**

OMA-TS-Presence-SIMPLE\_Content\_XDM-V1\_0-20081223-C

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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

#### OMA

- [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/>
- [SCR RULES] “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

- [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>

### 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

<b>Application Unique ID</b>	Use definition from [XDM_Core].
<b>Application Usage</b>	Use definition from [XDM_Core].
<b>Global Document</b>	Use definition from [XDM_Core].
<b>Global Tree</b>	Use definition from [XDM_Core].
<b>Home Directory</b>	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])
<b>Presence Content</b>	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.
<b>Presence Information</b>	Use definition from [PRS_RD].
<b>Presence Information Element</b>	Use definition from [PRS_RD].
<b>Primary Principal</b>	Use definition from [XDM_RD].
<b>Principal</b>	Use definition from [Dict].
<b>Users Tree</b>	Use definition from [XDM_Core].
<b>XCAP Resource</b>	Use definition from [XDM_Core].
<b>XCAP Root</b>	Use definition from [XDM_Core].
<b>XCAP Server</b>	Use definition from [XDM_Core].
<b>XCAP User Identifier</b>	Use definition from [XDM_Core].

### 3.3 Abbreviations

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

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

### A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-TS-Presence- SIMPLE_Content_XDM-V1_0	28 Feb 2008	All	Initial version created
	04 Mar 2008	None	New version due to wrong upload
	12 Mar 2008	All	Editorial cleanup based on OMA-PAG-2008-0153
	28 May 2008	All	Incorporated CR: OMA-PAG-2008-0348R01
	02 Jul 2008	3.2 5.1.6 5.1.8 5.1.11	Incorporated CRs: OMA-PAG-2008-0400R02 OMA-PAG-2008-0414R02
	26 Aug 2008	B.1 B.2	Incorporated CR: OMA-PAG-2008-0546R01
	01 Oct 2008	All	Incorporated CR: OMA-PAG-2008-0516R03
	22 Oct 2008	5.1.12.1.3	Incorporated CR: OMA-PAG-2008-0646R02
	04 Nov 2008	App C	Incorporated CR: OMA-PAG-2008-0755
Candidate Version OMA-TS-Presence- SIMPLE_Content_XDM-V1_0	23 Dec 2008	N/A	Status changed to Candidate by TP TP ref # OMA-TP-2008-0490- INP_Presence_SIMPLE_V2_0_ERP_for_Candidate_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.

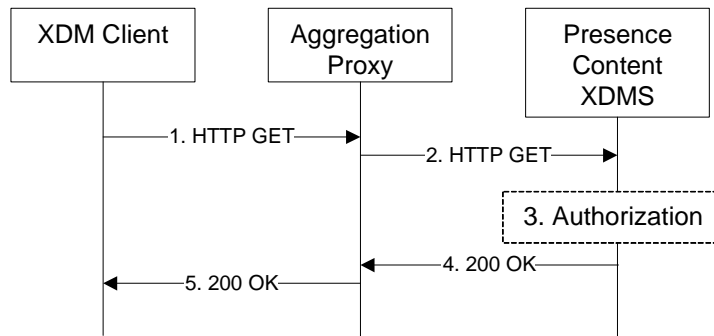


Figure C.1- XDMC obtains Presence Content Document

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>iVBORw0KGgoAAAANSUUhEUgAAAI8AAAAtCAMAAACgachEAAAABGdBTUEAAK/INwWK6QAAABl0RVh0U29mdHdhcmUAUQW
RvYmUgSWlhZ2VSVZWFkeXhJZTAAAGAUExURazWxbm7uzAzMgAUBqOnpnV5efzlx5aamfPz84WIiLWrzGUKCdHP5WZoaPvZr/
S0aOvt7e/WzNjr41VYWAQuf8DDw8lyYf3+/uHi4u+cN93e3sTi1ToTbPjKkUVJSMnLynBzr0VQl+a+tuYIE9LT07A5Mkcjdv
3x5IbErvKoVna7o5nMuItzrePx7IzHsZWYFYlgaQGFHNWmejp9Oz28vn5+teVh/Xm30plomBkZKsXJfPy+TAi6uZxM3F3u
6ULI6KvblascS82nB0c50AApCTk857c6KpVPGfR7VJPGu3m56hoH+Dg/v6/eDa633Ap///+9+roPL39eTh7+2PILGzs/z38+
2ONMzPz/b39/737uTm5dnZ2j5CQfr7+1BUU/77+ebo5/Dv81ldofz9/Ht+fcXHx6utrVlgYPb292lvbUXFzk8PIuPjiUoJ+
+WNR0fHoyOjmxvblldXIGovenp6ep9AJ+kzfa9ec/R0aQlJEtPtK50T9XW1gAAAP///8goVXMAAACgSURBVHja7JjrV9pIFM
AFCSRGFEEqocIKRYoVtFwFz9aIjxK1alEQkUp5BEEErFtZhnXd2YSQggg7na3x7On91Pmlfnlnz1N0sDLko7fPL95/gOer4
t9feOHh30vg2fxcPvj3uvl2dn17c8vgKdv4ePrP2eRbGltP7E4HaCOXNFrBbGwe6+4osYktFIJj4dVNEExKehmPh9Ak2/IsHr
6CPMtYtpbHW9GutXm6goTOJWLSAdNtBvdnbhFRic9PUqqk3REj1+MVuue5ulbqPHMbi20wCH4TXnJSzYL5MXunBVwtUna2h
xNXrK4kvH9PI+1Ui9UdcAo5cxFxFUeojqL4LbLFFe+TPMiaq+c1i89rf142J4o3yHGUN2HGfV/gB+IRrK+EhoqIym081AOeLl
gahRsVS+L6uhjhUVNP8EYML7za+xPaMrLnV8huD7rXu+tMhP/AarbYuf2LW7zFqtCjBQ2EHG2zqHHhxf28BnF/VHGEgQQRz
tjbuRZmV5a+v4eGTQC2tt7Pbulvh0CwHx319raTtdxbWYQvTFT8ysNpPs0ekT2krHz3bdowr4sNip0GD110WwmX10cusLtBp
73Y51QVtG2ZzAaLsYwX8dxPDzu2nkLZU18A2+kUg/Gr1RVN7sSehVSK7aiRpJ/oaVNCfKIvsYs5lnq7Ozv7+xc2pcd3/76zt
t3SDarPZe0/I0h5C8P0MgG1BLrD0dg41pozK0zQypNIDCTdLUCDQVkpAcIBwFly3jmxBnBspb0aMrFdE2B5miYzIJPBqhM4
amVfT1jKafJfyYaP00WdeFajw/MA4E6pLb9yamcTjeVS2IQqZQPpYdACyco5dF1q6eIhOZ5SKTcVPlqAxxKyHi+8zyN+gEH7x
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5) The Aggregation Proxy routes the response to the XDMC.