



# **Enabler Test Specification for Presence SIMPLE**

**Conformance test cases**

**Historic Version 1.0 – 30 May 2006**

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**Open Mobile Alliance**

**OMA-ETS-Presence\_SIMPLE\_Conf-V1\_0-20060530-H**

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# 1. Scope

This document describes in detail available Conformance test cases for Presence 1.0, <http://www.openmobilealliance.org/>.

The test cases are split in two categories, conformance and interoperability test cases.

The conformance test cases are aimed to verify the adherence to normative requirements described in the technical specifications.

The interoperability test cases are aimed to verify that implementations of the specifications work satisfactory.

If either conformance or interoperability tests do not exist at the creation of the test specification this part should be marked not available.

## 2. References

### 2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1\_1, [URL:http://www.openmobilealliance.org/](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](http://www.ietf.org/rfc/rfc2119.txt)
- [ERELD] “Enabler Release Document for Presence”, Open Mobile Alliance™, OMA-ERELD-SIMPLE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMARDPOC] “Push to Talk over Cellular Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD\_PoC-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMARDPRES] “Presence Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD\_Presence\_SIMPLE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMA-Presence-XDM] “Presence XDM Specification”, Version 1.0, Open Mobile Alliance™, OMA-Presence\_SIMPLE\_XDM\_Specification-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMA-RLS-XDM] “Resource List Server (RLS) XDM Specification”, Version 1.0, Open Mobile Alliance™, OMA-Presence\_SIMPLE\_RLS\_XDM\_Specification-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMATSPRES] “Presence SIMPLE Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-Presence\_SIMPLE-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Open Mobile Alliance™. OMA-Dictionary, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [OMAADPRES] “Stage 2 - Presence using SIMPLE”, Version 1.0, Open Mobile Alliance™, OMA-AD-Presence\_SIMPLE-V1\_0, [URL:http://www.openmobilealliance.org/](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”, are normative, unless they are explicitly indicated to be informative.

The following numbering scheme is used:

**xxx-y.z-con-number** where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
'con'	Indicating this test is a conformance test case
number	Leap number for the test case

Or

**xxx-y.z-int-number** where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
'int'	Indicating this test is a interoperability test case
number	Leap number for the test case

### 3.2 Definitions

<b>Composition</b>	The function of the PS to combine the “views” of the various Presence Sources in one single raw presence document for a particular presentity.
<b>Content Server</b>	The Content Server is the functional entity that is capable of managing MIME objects for Presence, allowing the Presence Sources to store MIME objects within, and support retrieval of those objects by watchers.
<b>Event Package</b>	Event Package: An event package is an additional specification, which defines a set of state information to be reported by a notifier to a subscriber. Event packages also define further syntax and semantics based on the framework defined by this document required to convey such state information.
<b>Event Publication Agent (EPA)</b>	The User Agent Client (UAC) that issues PUBLISH requests to publish event state.
<b>Event State Compositor (ESC)</b>	The User Agent Server (UAS) that processes PUBLISH requests, and is responsible for compositing event state into a complete, composite event state of a resource.
<b>Presence Content Rules</b>	Rules that determine the content of Presence information sent to the watchers.
<b>Presence Information</b>	Dynamic set of information pertaining to a Presentity that may include Presence Information Elements such as the status, reachability, willingness, and capabilities of that Presentity.
<b>Presence Information Element</b>	A basic unit of Presence Information.
<b>Presence External Agent (PEA)</b>	Presence source element that is located outside of the provider's network.
<b>Presence Network Agent (PNA)</b>	Network located element that collects and sends network related presence information on behalf of the presentity to a presence server
<b>Presence Source</b>	A logical entity that provides <i>Presence Information</i> pertaining to exactly one or more <i>Presentities</i> to the <i>Presence Server</i> . Presence User Agents, Presence Network Agents, and Presence External Agents are examples of <i>Presence Sources</i> .
<b>Presence User Agent (PUA)</b>	A terminal or network located element that collects and sends user related presence information to a presence server on behalf of a Principal

<b>Presentity</b>	A logical entity that has <i>Presence Information</i> (see definition below) associated with it. This <i>Presence Information</i> may be composed from a multitude of <i>Presence Sources</i> . A <i>Presentity</i> is most commonly a reference for a person, although it may represent a role such as "help desk" or a resource such as "conference room #27". <i>Presentities</i> are generally referenced by distinguished names, such as "sip:joe.bloggs@example.com" or by phone numbers like "tel:+12345678". In SIMPLE, <i>Presentities</i> are generally referenced using a sip:, pres: or tel: URL.
<b>Resource List Server (RLS)</b>	A functional entity that accepts and manages subscriptions to presence lists, which enables a Watcher application to subscribe to the presence information of multiple presentities using a single subscription transaction.
<b>Subscription Authorisation Rules</b>	Rules that determine the handling of an incoming Presence Subscription by the PS
<b>User Equipment (UE)</b>	A device allowing a user access to network services. For the purpose of 3GPP specifications the interface between the UE and the network is the radio interface. A User Equipment can be subdivided into a number of domains, the domains being separated by reference points. Currently defined domains are the USIM and ME Domains. The ME Domain can further be subdivided into several components showing the connectivity between multiple functional groups. These groups can be implemented in one or more hardware devices. An example of such a connectivity is the TE – MT interface. Further, an occurrence of a User Equipment is an MS for GSM as defined in GSM TS 04.02.
<b>Watcher</b>	Any uniquely identifiable entity that requests presence information about a presentity, from the presence service. Special types of watcher are fetcher, poller, and subscribed-watcher.
<b>Watcher information subscriber</b>	Any uniquely identifiable entity that requests watcher information about a watcher, from the presence service.

### 3.3 Abbreviations

<b>3GPP</b>	3 <sup>rd</sup> Generation Partnership Project
<b>3GPP2</b>	3 <sup>rd</sup> Generation Partnership Project 2
<b>AD</b>	Architecture Document
<b>AS</b>	Application Server
<b>CID</b>	Content ID
<b>DM</b>	Device Management
<b>EPA</b>	Event Publication Agent
<b>ESC</b>	Event State Compositor
<b>IETF</b>	Internet Engineering Task Force
<b>IM</b>	Instant Messaging
<b>IMS</b>	IP Multimedia Subsystem
<b>IP</b>	Internet Protocol
<b>MIME</b>	Multipurpose Internet Mail Extensions
<b>MWG</b>	Messaging Workin Group
<b>MWS</b>	Mobile Web services
<b>OMA</b>	Open Mobile Alliance
<b>OTAP</b>	Over the Air Provisioning
<b>PIDF</b>	Presence Information Data Format
<b>PoC</b>	Push-to-talk over Cellular
<b>PEA</b>	Presence External Agent
<b>PUA</b>	Presence User Agent
<b>PNA</b>	Presence Network Agent

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<b>PS</b>	Presence Server
<b>RD</b>	Requirement Document
<b>RFC</b>	Request For Comments
<b>RPID</b>	Rich Presence Information Data
<b>RLS</b>	Resource List Server
<b>SIMPLE</b>	SIP Instant Message and Presence Leveraging Extensions
<b>SIP</b>	Session Initiation Protocol
<b>TLS</b>	Transport Layer Security
<b>UA</b>	User Agent
<b>UE</b>	User Equipment
<b>UMTS</b>	Universal Mobile Telecommunications System
<b>URI</b>	Uniform Resource Identifier
<b>WLAN</b>	Wireless LAN
<b>WG</b>	Working Group
<b>XCAP</b>	XML Configuration Access Protocol
<b>XDMS</b>	XML Document Manipulation Server
<b>XML</b>	Extensible Markup Language
<b>XUI</b>	XCAP User Identifier



## 4. Introduction

The purpose of this document is to provide test cases for Presence Enabler Release 1.0

Some features in the Presence enabler may optionally be implemented in Clients and Servers. The tests associated with these optional features are marked as [Optional] in the test specification.

The following items on an overall are needed to adequately test the Presence enabler:

- Presence Server
- Presence Source located in a user's terminal
- Presence Source located in a network entity
- Watcher located in a user's terminal
- Watcher located in a network entity
- Watcher Information Subscriber located in a user's terminal
- Presence XML Document Management Server (XDMS)
- Resource List Server XML Document Management Sever (RLS XDMS)
- Content Server

## 5. Conformance Test Cases

For Presence 1.0 there exists 13 conformance tests. 12 of those are mandatory

### 5.1 Publication and Storage of Information

#### 5.1.1 Presence-1.0-con-M-001: Two consecutive publications for the same Presentity are not assigned the same timestamp

Test Case Id	Presence-1.0-con-M-001
Test Object	Presence Server
Test Case Description	Verify that two consecutive publications for the same Presentity are not assigned the same timestamp
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Timestamp sub-elements in Person, Device and Service elements contained in X1.xml and X2.xml
Preconditions	In Presence server: - Presence server supports multiple publications for the same Presentity.
Test Procedure	1) Presence source 1 publishes presence information X1 related to Presentity A 2) Presence source 2 publishes presence information X2 related to Presentity A
Pass-Criteria	1) Presence server accepts the publications of presence information X1. In Presence Server verify that all elements (person, device and tuple) defined in X1 are assigned the same timestamp. 2) Presence server accepts the publications of presence information X2. In Presence Server verify that all elements (person, device and tuple) defined in X2 are assigned the same timestamp. Presence server assigns the elements defined in X1 and X2 different timestamps  Note: Instance identifier attributes may be different to the ones defined in X1 and X2 due to Presence server operation.

#### 5.1.2 Presence-1.0-con-M-002: Initial Publication and Storage of presence information for a particular Presentity

Test Case Id	Presence-1.0-con-M-002
Test Object	Presence Server
Test Case Description	Verify that the Presence Server is able to support publication and storage of multiple presence information elements per user .
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml

Preconditions	In Presence Server: - No presence information related to Presentity A stored in Presence Server.
Test Procedure	1) Presence Source 1 publishes presence information X1 related to Presentity A.
Pass-Criteria	1) Presence server accepts the publication of presence information X1 and is able to store it.

### 5.1.3 Presence-1.0-con-M-003: Modifying presence information per user published by the same Presence source

Test Case Id	Presence-1.0-con-M-003
Test Object	Presence Server
Test Case Description	Verify that a presence server supports modification of presence information by the same Presence source
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained inX1.xml andX2.xml.
Preconditions	In Presence server: - Presence information X1 and X2 are published by the same Presence sourceX1 and X2 contain full publications of the presence information related to Presentity A -
Test Procedure	1) Presence source 1 publishes presence information X1 related to Presentity A 2) Presence source 1 publishes presence information X2 related to Presentity A
Pass-Criteria	1) Presence server accepts the publications of presence information X1 and stores it. 2) Presence server accepts the publications of presence information X2. X2 presence information document shall be stored in the presence server Note: X1 and X2 timestamps and instance identifier attributes may be different due to presence server operation.

### 5.1.4 Presence-1.0-con-M-005: Combining presence elements from different presence sources (I)

Test Case Id	Presence-1.0-con-M-005
Test Object	Presence Server

Test Case Description	Verify that a presence server supports the combination of different presence information elements of a particular Presentity from different presence sources, when the information from the two Presence sources is conflicting ONLY in the <device> element.
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X7.xml The combination of the information contained in these files shall be the presence elements contained in Y3.xml
Preconditions	In Presence server: <ul style="list-style-type: none"> <li>- Presence information X1 related to Presentity A is stored in the presence server by presence source 1.</li> </ul>
Test Procedure	1) Presence source 2 publishes presence information X7 related to Presentity A. Note: X1 and X7 satisfy the following requirements: <ul style="list-style-type: none"> <li>- Both contain a &lt;person&gt; element with no conflicting subelements.</li> <li>- Both contain a &lt;device&gt; element with the same &lt;deviceID&gt; subelement and there are conflicting and non-conflicting subelements.</li> <li>- Both contain a &lt;tuple&gt; element with: <ul style="list-style-type: none"> <li>o same &lt;contact&gt; subelement (if present) AND</li> <li>o same &lt;service-description&gt; subelement (if present) AND</li> <li>o there are no conflicting subelements.</li> </ul> </li> </ul>
Pass-Criteria	1) Presence server accepts the publications of presence information X7. Y3 presence information document shall be generated and stored in the presence server. Y3 shall satisfy the following requirements: <ul style="list-style-type: none"> <li>- The &lt;person&gt; elements are aggregated into one single &lt;person&gt; element with no duplicated subelements AND</li> <li>- The &lt;device&gt; elements are aggregated into one single &lt;device&gt; element with no duplicated subelements. For subelements with different value, the Presence server shall store the information with the most recent timestamp (X7) AND</li> <li>- The &lt;tuple&gt; elements are aggregated into one single &lt;tuple&gt; element with no duplicated subelements.</li> </ul> Note: Y3 timestamps and instance identifier attributes may be different due to presence server operation.

### 5.1.5 Presence-1.0-con-M-006: Combining presence elements from different presence sources (II)

Test Case Id	Presence-1.0-con-M-006
Test Object	Presence Server
Test Case Description	Verify that a presence server supports the combination of different presence information elements of a particular Presentity from different presence sources, when the information from the two Presence sources is conflicting in the <person>, <device> and <tuple> elements
Specification Reference	Refer to 0

SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X8.xml The combination of the information contained in these files shall be the presence elements contained in Y4.xml
Preconditions	In Presence server: <ul style="list-style-type: none"> <li>- Presence information X1 related to Presentity A is stored in the presence server by presence source 1.</li> </ul>
Test Procedure	1) Presence source 2 publishes presence information X8 related to presentity A. Note: X1 and X8 satisfy the following requirements : <ul style="list-style-type: none"> <li>- Both contain a &lt;person&gt; element with conflicting and non-conflicting subelements.</li> <li>- Both contain a &lt;device&gt; element with different &lt;deviceID&gt; subelements.</li> <li>- Both contain a &lt;tuple&gt; element with: <ul style="list-style-type: none"> <li>o different &lt;contact&gt; subelement (if present) OR</li> <li>o different &lt;service-description&gt; subelement (if present) OR</li> <li>o there are conflicting subelements.</li> </ul> </li> </ul>
Pass-Criteria	1) Presence server accepts the publications of presence information X8. Y4 presence information document shall be generated and stored in the presence server. Y4 shall satisfy the following requirements: <ul style="list-style-type: none"> <li>- The &lt;person&gt;, &lt;device&gt; and &lt;tuple&gt; elements are kept separately within the same document related to Presentity A</li> </ul> Note: Y4 timestamps and instance identifier attributes may be different due to presence server operation.

### 5.1.6 Presence-1.0-con-M-016: Publications from non-authorized presence source handled correctly by Presence Server

Test Case Id	Presence-1.0-con-M-016
Test Object	Presence Server
Test Case Description	Verify that presence server can handle correctly when receives presence information from non-authorized presence source.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available
Test Code	Presence elements contained in X1.xml.
Preconditions	In Presence Server: Presence Server shall perform authorization. In Presence Source 1: The identity of Presence source 1 does not match against the value of the

	“entity” attribute of the <presence> element in X1.xml.
Test Procedure	1) Presence source 1 publishes presence information X1 related to Presentity A.
Pass-Criteria	Presence Server verifies that presence source 1 is not authorized to publish the presence information of Presentity by verifying that the identity of the source 1 does not match against the value of the “entity” attribute of the <presence> element in X1.xml, rejects publication request with an error response, such as a 401 (Unauthorized).

### 5.1.7 Presence-1.0-con-O-011: Partial Publication without previous Stateful Publication

Test Case Id	Presence-1.0-con-O-011
Test Object	Presence Server
Test Case Description	Verify that whenever a presence source publishes partial presence information without sending a previous stateful publication, the presence server rejects this publication and handles the error appropriately.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available
Test Code	Presence elements contained in X12.xml and Y11.xml
Preconditions	- In Presence Server: Presence information Y11 related to Presentity A stored in the presence server but not by a stateful publication coming from presence source 1
Test Procedure	1) Presence source 1 publishes partial presence information X12 related to Presentity A via partial publication mechanism
Pass-Criteria	1) Presence server rejects the publication request with an appropriate error response, such as a 400 (Partial Publication out of Sync). Presence information Y11 related to Presentity A is still stored in the presence server.

### 5.1.8 Presence-1.0-con-O-012: Partial Publication processing error

Test Case Id	Presence-1.0-con-O-011
Test Object	Presence Server
Test Case Description	Verify that whenever a presence source publishes partial presence information that has not been published by this presence source in a stateful publication, the presence server rejects this publication and handles the error appropriately.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available
Test Code	Presence elements contained in

Preconditions	In Presence Server: - No presence information related to Presentity A stored in Presence Server.
Test Procedure	1) Presence source 1 publishes stateful presence information X11 related to Presentity A via partial publication mechanism 2) Presence source 2 publishes stateful presence information X13 related to Presentity A via partial publication mechanism 3) Presence source 1 publishes partial presence information X14 related to Presentity A via partial publication mechanism Note: X14 removes elements that have not been published by Presence source 1 but by presence source 2
Pass-Criteria	1) Presence server stores Y11 presence information related to presentity A 2) Presence server combines presence information coming from presence source 1 and presence source 2 and stores the resulting Y13 presence information related to presentity A 3) Presence server rejects the publication request with an appropriate error response, such as a 500 (Server Internal Error). Presence information Y13 related to presentity A is still stored in the presence server.

## 5.2 Subscription to Presence Information

### 5.2.1 Presence-1.0-con-M-051: Fetch and one-time subscription

Test Case Id	Presence-1.0-con-M-051
Test Object	Presence Server
Test Case Description	Verify that the Presence Server is able to notify the Presentity A presence information and send it to the watcher when the watcher has requested this information but is not subscribed to the Presentity A presence information
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml
Preconditions	In Presence Server: - Presence information X1 related to Presentity A is stored in the presence server. - Watcher 1 is not subscribed to the presence information of Presentity A - Watcher 1 is authorized to access presence information of Presentity A.
Test Procedure	1) Watcher 1 requests Presentity A presence information.
Pass-Criteria	1) Presence Server verifies that Watcher 1 is authorized to access the presence information of Presentity A. Presence server does NOT include Watcher 1 into the list of subscribed watchers to Presentity A presence information. Presence server notifies the current presence information X1 to Watcher 1.

### 5.2.2 Presence-1.0-con-M-052: Initial subscription: Notification of presence information

Test Case Id	Presence-1.0-con-M-052
Test Object	Presence Server
Test Case Description	Verify that the requested presence information is sent to the watcher, when the watcher subscribes to Presentity A presence information
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml
Preconditions	In Presence Server: <ul style="list-style-type: none"> <li>- Presence information X1 related to presentity A stored in the presence server.</li> <li>- Watcher 1 is not subscribed to the presence information of Presentity A</li> <li>- Watcher 1 is authorized to access presence information of Presentity A.</li> </ul>
Test Procedure	1. 1) Watcher 1 subscribes to presence information of presentity A.
Pass-Criteria	1) Presence Server verifies that Watcher 1 is authorized to access the presence information of Presentity A. Presence server includes Watcher 1 into the list of subscribed watchers to Presentity A presence information. Presence server notifies watcher 1 the presence information X1.

### 5.2.3 Presence-1.0-con-M-053: Notification of presence information to several Watchers when presence information is updated

Test Case Id	Presence-1.0-con-M-053
Test Object	Presence Server
Test Case Description	Verify that the requested presence information is sent to the appropriate watchers, when the watchers are already subscribed to Presentity A presence information
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X2.xml
Preconditions	In Presence Server: <ul style="list-style-type: none"> <li>- Presence information X1 and X2 are published by the same Presence source</li> <li>- Presence information X1 related to Presentity A is stored in the presence server.</li> <li>- Watcher 1 and Watcher 2 are subscribed to the presence information of Presentity A</li> </ul>
Test Procedure	1) Presence server is updated with presence information X2 related to Presentity A



Pass-Criteria	1) Presence server notifies presence information X2 to Watcher 1 and Watcher 2
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#### 5.2.4 Presence-1.0-con-M-054: Subscription expiration notification

Test Case Id	Presence-1.0-con-M-054
Test Object	Presence Server
Test Case Description	Verify that a watcher is notified when his subscription expires.
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X2.xml
Preconditions	In Presence Server: <ul style="list-style-type: none"> <li>- Presence information X1 related to Presentity A stored in the presence server.</li> <li>- Watcher 1 is authorized to subscribe and access presence information related to Presentity A</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>1) Watcher 1 subscribes to presence information related to Presentity A with expiration time 3 seconds.</li> <li>2) After 3 seconds, the Presence server removes Watcher 1 from the list of watchers subscribed to Presentity A presence information</li> <li>3) Presence server is updated with presence information X2 related to Presentity A.</li> </ol>
Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence Server verifies that Watcher 1 is authorized to access the presence information of Presentity A, accepts subscription, includes Watcher 1 into the list of watchers subscribed to Presentity A presence information and notifies presence information X1 to Watcher 1</li> <li>2) Presence Server notifies Watcher 1 of his subscription expiration.</li> <li>3) Presence Server does no longer send notification of the presence information of Presentity A to Watcher 1</li> </ol>

#### 5.2.5 Presence-1.0-con-M-055: Subscription renewal

Test Case Id	Presence-1.0-con-M-055
Test Object	Presence Server
Test Case Description	Verify that the presence information is sent to the watcher during the expanded subscription.
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X2.xml

Preconditions	In Presence Server: <ul style="list-style-type: none"> <li>- Presence information X1 and X2 are published by the same Presence source</li> <li>- Presence information X1 related to Presentity A is stored in the presence server.</li> <li>- Watcher 1 is authorized to subscribe and access presence information related to Presentity A</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>1) Watcher 1 subscribes to presence information related to Presentity A with expiration time 30 seconds.</li> <li>2) Within 30 seconds, Watcher 1 subscribes again to presence information related to Presentity A with expiration time 10 minutes. The Presence server does not send any presence information notification to Watcher 1 because it has not changed since the last notification.</li> <li>3) Within 10 minutes from renewal of subscription presence server is updated with presence information X2 related to Presentity A.</li> </ol>
Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence Server verifies that Watcher 1 is authorized to access the presence information of Presentity A, accepts subscription, includes watcher 1 into the list of watchers subscribed to Presentity A presence information and notifies presence information X1 to Watcher 1</li> <li>3) Presence server notifies presence information X2 to Watcher 1. After 10 minutes from renewal of subscription Presence server notifies Watcher 1 of the expiration of his subscription</li> </ol>

### 5.2.6 Presence-1.0-con-M-056: Subscription Cancellation

Test Case Id	Presence-1.0-con-M-056
Test Object	Presence server
Test Case Description	Verify that the watcher is notified of his subscription cancellation, when this is cancelled by the watcher, and does no longer receive the presence information after the cancellation.
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml and X2.xml
Preconditions	In Presence Server: <ul style="list-style-type: none"> <li>- Presence information X1 related to Presentity A is stored in the presence server.</li> <li>- Watcher 1 is subscribed to presence information of Presentity A.</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>1) Watcher 1 cancels his subscription to presence information of the Presentity A.</li> <li>2) Presence server is updated with presence information X2 related to Presentity A.</li> </ol>

Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence server accepts cancellation from watcher 1, removes Watcher 1 from the list of subscribed watchers to Presentity A presence information and sends Watcher 1 notification of his cancellation.</li> <li>2) Watcher 1 does no longer receive notification of Presentity A presence information.</li> </ol>
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### 5.2.7 Presence-1.0-con-O-057: Notification to a Presentity of the request for his/her presence information

Test Case Id	Presence-1.0-con-O-057
Test Object	Presence Server
Test Case Description	Verify that a Presentity is notified whenever his/her presence information is requested.
Specification Reference	Refer to 0
SCR Reference	Refer to 0
Tool	Not available
Test Code	Presence elements contained in X1.xml List of watchers subscribed to Presentity A presence information is included in Notifications W1.xml and W2.xml
Preconditions	<p>In Presence Server:</p> <ul style="list-style-type: none"> <li>- Presence information X1 related to Presentity A stored in the presence server.</li> <li>- No watcher is subscribed to Presentity A presence information</li> <li>- Watcher 1 is authorized to subscribe and access the presence information of Presentity A</li> <li>- Client A is authorized to subscribe to watcher information</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>1) Watcher Information Subscriber in Client A authenticates himself as Presentity A and requests to be notified of presence requests on his presence information.</li> <li>2) Watcher 1 subscribes to presence information of Presentity A.</li> </ol>
Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence server accepts the subscription and sends the notification W2 to the Watcher Information Subscriber in Client A</li> <li>2) Presence Server verifies that Watcher 1 is authorized to access the presence information of Presentity A, accepts subscription, includes watcher 1 into the list of watchers subscribed to Presentity A presence information and notifies presence information X1 to Watcher 1. Presence Server sends notification W1 to the Watcher Information Subscriber in Client A</li> </ol>

### 5.2.8 Presence-1.0-con-O-058: Partial Publication and Regular Notification of Presence Information (Includes Optional Features)

Test Case Id	Presence-1.0-con-O-058
Test Object	Presence Server

Test Case Description	Verify that a presence source can publish partial presence information and the presence server can manage it properly.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available
Test Code	Presence elements contained in X11.xml, X12.xml, Y11.xml and Y12.xml
Preconditions	<ul style="list-style-type: none"> <li>- In Presence Server:No presence information related to Presentity A stored in the presence server.</li> <li>- Watcher 1 is subscribed to Presentity A presence information via regular notification mechanism</li> <li>- Watcher 1 is authorized to subscribe and access the presence information of Presentity A</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>2) Presence source 1 publishes stateful presence information X11 related to Presentity A via partial publication mechanism</li> <li>3) Presence source 1 publishes partial presence information X12 related to Presentity A via partial publication mechanism</li> </ol>
Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence server notifies watcher 1 the presence information Y11</li> <li>2) Presence server notifies watcher 1 the presence information Y12</li> </ol>

### 5.2.9 Presence-1.0-con-O-059: Partial Publication and Partial Notification of Presence Information (Includes Optional Features)

Test Case Id	Presence-1.0-con-O-059
Test Object	Presence Server
Test Case Description	Verify that the presence server can notify partial presence information and watchers can manage it properly.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available
Test Code	Presence elements contained in
Preconditions	<p>In Presence Server:</p> <ul style="list-style-type: none"> <li>- No presence information related to Presentity A stored in the presence server.</li> <li>- Watcher 1 is subscribed to Presentity A presence information via partial notification mechanism</li> <li>- Watcher 1 is authorized to subscribe and access the presence information of Presentity A</li> </ul>
Test Procedure	<ol style="list-style-type: none"> <li>1) Presence source 1 publishes stateful presence information X11 related to Presentity A.</li> <li>2) Presence source 1 publishes partial presence information X12 related to Presentity A.</li> </ol>
Pass-Criteria	<ol style="list-style-type: none"> <li>1) Presence server notifies watcher 1 the presence information X11</li> <li>2) Presence server notifies watcher 1 the presence information X12</li> </ol>

## Appendix A. Change History

(Informative)

### A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

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

Reference	Date	Description
Draft versions OMA-ETS-Presence_SIMPLE_Conf-V1_0	16 Aug 2005	Initial version
	06 Feb 2006	CRs agreed during Paris f2f sessions: - OMA-IOP-POC-2005-0255-combining-prs-sources-update - OMA-IOP-POC-2005-0256-update-references-Conf-ETS - OMA-IOP-POC-2005-0257R01-partial-publication-partial-notification-tests - OMA-IOP-POC-2005-0258-partial-publication-error-tests - OMA-IOP-POC-2005-0259-update-to-test-cases-about-aggregation-of-multiple-presence-elements-per-user-published-by-same-src - OMA-IOP-POC-2005-0260-PIDF-reference-documents-update
	03 May 2006	Agreed CRs during Vancouver f2f meeting - OMA-IOP-MEC-2006-0187-PRES-Presence-conformance-XML-updates
	09 May 2006	Agreed CR during 20060509 conference call - OMA-IOP-MEC-2006-0231-PRES-Publications-from-Non-authorized-Presence-Source
	11 May 2006	Agreed by IOP WG – prepared for TP R&A.
OMA-ETS-Presence_SIMPLE_Conf-V1_0-20060530-C	30 May 2006	Status changed to Candidate by TP R&A (2006-05-17 to 2006-05-30) OMA-TP-2006-0193-ETS-Presence_SIMPLE_Conf_for_candidate_approval
	29 Feb 2008	Status changed to historic OMA-TP-2008-0100R03-INP_Presence_SIMPLE_1_0_Historical










## Appendix B. SCR and Specification References







Test Case Number in ETS	SCR-reference	Spec (AD,CP,UP)-reference
Presence-1.0-con-M-001	SIMPLE-PS-S-002:M	[PRESSPEC] 5.4.1.1
Presence-1.0-con-M-002	SIMPLE-PS-S-002:M	[PRESSPEC] 5.4.1
Presence-1.0-con-M-003	SIMPLE-PS-S-002:M	[PRESSPEC] 5.4.1
Presence-1.0-con-M-005		[PRESSPEC] 5.4.3.1
Presence-1.0-con-M-006		[PRESSPEC] 5.4.3.1
Presence-1.0-con-M-016	SIMPLE-PS-S-002:M	[PRESSPEC]5.4.1.1
Presence-1.0-con-O-011	SIMPLE-SRC-C-004:O	[PRESSPEC] 5.1.1.1 [PRESSPEC] 5.4.1.2
Presence-1.0-con-O-012	SIMPLE-SRC-C-004:O	[PRESSPEC] 5.1.1.1 [PRESSPEC] 5.4.1.2 [PRESSPEC] 5.4.3.1
Presence-1.0-con-M-051	SIMPLE-PS-S-003:M SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.2
Presence-1.0-con-M-052	SIMPLE-PS-S-003:M SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.2
Presence-1.0-con-M-053	SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.3.6
Presence-1.0-con-M-054	SIMPLE-PS-S-003:M SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.2
Presence-1.0-con-M-055	SIMPLE-PS-S-003:M SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.2
Presence-1.0-con-M-056	SIMPLE-PS-S-003:M SIMPLE-PS-S-004:M	[PRESSPEC] 5.4.2
Presence-1.0-con-O-057	SIMPLE-PS-S-018:O SIMPLE-PS-S-019:O	[PRESSPEC] 5.4.4
Presence-1.0-con-O-058	SIMPLE-SRC-C-004:O	[PRESSPEC] 5.1.1.1 [PRESSPEC] 5.4.1.2
Presence-1.0-con-O-059	SIMPLE-PS-S-021:M SIMPLE-WATCH-C-005:O	[PRESSPEC] 5.4.2.2 [PRESSPEC] 5.2.4

## Appendix C. Reference content


The following PIDF documents are proposed to be used during testing to verify conformity to the Presence 1.0 technical specification. These documents are encoded in UTF-8

### C.1 PIDF reference documents

PIDF document	Applicable to test cases	Change History
 X1.xml	Presence-1.0-con-M-001 Presence-1.0-con-M-002 Presence-1.0-con-M-003 Presence-1.0-con-M-005 Presence-1.0-con-M-006 Presence-1.0-con-M-016 Presence-1.0-con-M-051 Presence-1.0-con-M-052 Presence-1.0-con-M-053 Presence-1.0-con-M-054 Presence-1.0-con-M-055 Presence-1.0-con-M-056 Presence-1.0-con-O-057	
 X2.xml	Presence-1.0-con-M-001  Presence-1.0-con-M-003  Presence-1.0-con-M-053  Presence-1.0-con-M-054  Presence-1.0-con-M-055  Presence-1.0-con-M-056	
 X7.xml	Presence-1.0-con-M-005	
 X8.xml	Presence-1.0-con-M-006	
 Y3.xml	Presence-1.0-con-M-005	
 Y4.xml	Presence-1.0-con-M-006	
 W1.xml	Presence-1.0-con-O-057	
 W2.xml	Presence-1.0-con-O-057	
 X11.xml	Presence-1.0-con-O-012 Presence-1.0-con-O-058 Presence-1.0-con-O-059	

 X12.xml	Presence-1.0-con-O-011 Presence-1.0-con-O-058 Presence-1.0-con-O-059	
 Y11.xml	Presence-1.0-con-O-011 Presence-1.0-con-O-012 Presence-1.0-con-O-058	
 X13.xml	Presence-1.0-con-O-012	
 X14.xml	Presence-1.0-con-O-012	
 Y12.xml	Presence-1.0-con-O-058	
 Y13.xml	Presence-1.0-con-O-012	

## C.2 Additional clarifications

Document	Subject	Change History
 several_presence_sour ces_per_presentity	Different Presence sources publishing Presence information of the same Presentity	