Enabler Test Specification for Presence SIMPLE

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1. Scope

This document describes in detail available test cases for Presence SIMPLE V 2.0 enabler (http://www.openmobilealliance.org).

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

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

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

2. References

2.1 Normative References

[RFC2119] "Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt

[PRS_ERELD] "Enabler Release Document for Presence", Open Mobile Alliance™, OMA-ERELD-SIMPLE-V2_0, URL:http://www.openmobilealliance.org/

[IOPPROC] "OMA Interoperability Policy and Process", Version 1.6, Open Mobile Alliance™, OMA—ORG-IOP-Process-V1_6, URL:http://www.openmobilealliance.org/

[PRS_PresXDM] "Presence SIMPLE XDM Specification", Version 2.0, Open Mobile Alliance™ , OMA-TS-Presence_SIMPLE_XDM-V2_0, URL: http://www.openmobilealliance.org/

[PRS_RD] "Presence SIMPLE Requirements Document", Version 2.0, Open Mobile Alliance™ , OMA-RD-Presence_SIMPLE-V2_0, URL: http://www.openmobilealliance.org/

[PRS_RLSXDM] "Resource List Server (RLS) XDM Specification", Version 2.0, Open Mobile Alliance™ , OMA-TS-Presence_SIMPLE_RLS_XDM-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/

[PRS_ETR] "Enabler Test Requirements for Presence SIMPLE", Version 2.0, Open Mobile Alliance OMA-ETR-Presence_SIMPLE-V2_0, URL:http://www.openmobilealliance.org/

[PRS_ETSINT-V1_1] "Enabler Test Specification for Presence SIMPLE. Interoperability", Open Mobile Alliance™ , OMA-ETS-Presence_SIMPLE_INT-V1_1, Version 1.1, http://www.openmobilealliance.org/

[PRS_ETSINT-PresXDM-V1_1] " Enabler Test Specification for Presence XDM. Interoperability", Open Mobile Alliance™ , OMA-ETS-Presence_XDM_INT-V1_1, Version 1.1, http://www.openmobilealliance.org/

[PRS_ETSINT-RLSXDM-V1_1] " Enabler Test Specification for Presence RLS XDM. Interoperability", Open Mobile Alliance™ , OMA-ETS-Presence_RLS_XDM_INT-V1_1, Version 1.1, http://www.openmobilealliance.org/

[PRS_AD] "Presence SIMPLE Architecture Document", Version 2.0, Open Mobile Alliance™ , OMA-AD-Presence_SIMPLE-V2_0, URL: http://www.openmobilealliance.org/

[PDE_DDS] "Presence SIMPLE Data Specification", Version 2.0, Open Mobile Alliance™, OMA-DDS-Presence_Data_Ext-V2_0, URL: http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_7, 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”, are normative, unless they are explicitly indicated to be informative.

The following numbering scheme is used:

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

UE[N]	A client terminal with assigned User[N], used for testing where N is an integer number (i.e. UE1, UE2, etc.).
user	A person using UE.
User[N]	A publisher/subscriber assigned to UE, where N is an integer number (i.e. User1, User2, etc.)
Presence Information	Use definition from [PRS_RD].
Presence Publication Rules	Use definition from [PRS_AD].
Presence Source	Use definition from [PRS_RD].
Presence Subscription Rules	Use definition from [PRS_AD].
Presentity	Use definition from [PRS_RD].
Publication Content Rules	Use definition from [PRS_AD].
TestFest	Multi-lateral interoperability testing event.
Watcher	Use definition from [PRS_RD].
Watcher Information Subscriber	Use definition from [PRS_RD].
Content Server	Use definition from [PRS_AD].
Presence Content XDMS	Use definition from [PRS_AD].
Permanent Presence State	Use definition from [PRS_AD].
Presence Information Element	Use definition from [PRS_RD].
Presence List	Use definition from [PRS_AD].
Request-contained Watcher Information List	Use definition from [PRS_AD].
Publication Authorization Rules	Use definition from [PRS_AD].
Request-contained	Use definition from [PRS_AD].

Presence List	
Resource List Server (RLS)	Use definition from [PRS_AD].
Subscription Authorization Rules	Use definition from [PRS_AD].
Subscription Content Rules	Use definition from [PRS_AD].
Watcher Information	Use definition from [PRS_RD].

3.3 Abbreviations

OMA	Open Mobile Alliance
PS	Presence Server
RD	Requirements Document
RLS	Resource List Server
SIP	Session Initiation Protocol
URI	Universal Resource Identifier
XCAP	XML Configuration Access Protocol
XDMC	XML Document Management Client
XDMS	XML Document Management Server
XML	Extensible Mark-up Language
UDP	User Datagram Protocol
TCP	Transmission Control Protocol
TLS	Transport Layer Security
MIME	Multipurpose Internet Mail Extensions

4. Introduction

The purpose of this document is to provide test cases for Presence SIMPLE V2.0 enabler.

The implementation of some features is optional for the Clients and/or the Servers in the Presence SIMPLE V2.0 Enabler. The tests associated with these optional features are marked as "(Includes Optional Features)" in the test specification.

The following items on an overall level are needed to adequately test the Presence SIMPLE V2.0 Enabler:

- Clients that contains Watcher, Watcher Information Suscriber, Presence Source and XDMC logical components
- Presence Server
- Resource List Server
- Watcher Agent
- Presence Content XDMS, Presence XDMS and RLS XDMS
- SIP/IP Core
- Aggregation Proxy, Subscription Proxy and Shared List XDMS

Detailed information will be included in the specific test case descriptions.

The Presence SIMPLE Enabler tests are carried out using XCAP and SIP protocols. The transport protocols used are UDP, TCP and TLS.

The Presence SIMPLE Enabler tests are carried out using Presence Information Elements defined in [PDE_DDS].

5. Interoperability Test Cases from Presence SIMPLE 1.1

This section lists the test cases defined for interoperability testing of the Presence SIMPLE enabler in its version 1.1 and that are still applicable to version 2.0 due to the fact that those functionalities remain unchanged in Presence 2.0 but they still should be tested. However, some of these functionalities have changed from an optional status to a mandatory status in order to fullfill the new requirements of the Presence SIMPLE Enabler version 2.0. The test cases that correspond to these functionalities have been marked as "(Changed to mandatory)" in the test specification.

The following tables show references to the test cases that have already been tested for Presence SIMPLE V1.1 (according to [PRS_ETSINT-V1_1], [PRS_ETSINT-PresXDM-V1_1] and [PRS_ETSINT-RLSXDM-V1_1].

5.1 Publication of Presence Information

Test Case Presence V1.1 ID	Test Case name	Test Case Description
Presence-1.1-int-0100	Publication of Presence information	Verify that presence information published by an UE will be received by another UE, which subscribes for that information.
Presence-1.1-int-0101	Publication of Presence information, publish modification	Verify that presence information modified by an UE will be displayed accordingly in another UE, which subscribes for that information.
Presence-1.1-int-0102	Publication of Presence information, removal	Verify that presence publications terminated by an UE will be displayed in another UE.
Presence-1.1-int-0111	Combining presence elements from different presence sources	Verify that a Presence Server supports the combination of different presence information elements of a particular User coming from different UEs, acting as presence sources.
Presence-1.1-int-0106	Partial Publication of Presence information (Changed to mandatory)	Verify that presence information modified by an UE via partial publication will be displayed accordingly in another UE, which subscribes for that information.

5.2 Subscription to Presence Information

Test Case Presence V1.1 ID	Test Case name	Test Case Description
Presence-1.1-int-0104	Publication of Presence information, subscription removal	An UE, acting as a Watcher terminates its subscriptions, and another UE, the presence source, updates the presence information.
Presence-1.1-int-0105	Publication of Presence information, subscription refresh	Verify that Presence Server keeps sending presence information to a UE, acting as a watcher, after subscription

		refresh.
Presence-1.1-int-0107	Notification of Presence information from multiple Presentities	Verify that a Presence Server can store and manage presence information coming from multiple UEs, acting as Presence Sources and related to several Users, and correctly notify one UE, acting as a Watcher the presence information.
Presence-1.1-int-0108	Partial Notification of Presence information (Changed to mandatory)	Verify that presence information modified by an UE will be displayed accordingly in another UE, which subscribes via partial subscription to that information.
Presence-1.1-int-0109	Distribution Policy (Presence Content Rules I)	Verify that a User is able to define policies so that different presence information can be sent to different Users, acting as Watchers.
Presence-1.1-int-0110	Distribution Policy (Presence Content Rules II)	Verify that a User is able to define policies so that the same presence information elements but with different can be sent to different Users, acting as Watchers.
Presence-1.1-int-0120	Publication of presence information, Subscription Poll Request	Verify that a UE successfully publishes and retrieves presence information by polling.
Presence-1.1-int-0121	Anonymous Distribution Policy	Verify that a User is able to define policies so that defined presence information can be sent to an anonymous User, acting as a Watcher.
Presence-1.1-int-0122	Default Policy	Verify that a User is able to define policies so that defined presence information can be sent to unspecified Users (not known in the Presence Rules document), acting as Watchers.
Presence-1.1-int-0130	Publication of presence information, Watcher is blocked	Verify that User1 successfully publishes presence information. User2 will not be able to Subscribe to the presence information when blocked by User1.
Presence-1.1-int-0140	Publication of presence information, Watcher is politely blocked	User2 will be able to Subscribe and receive notifications, but presence information will not be revealed, since the user is politely blocked.
Presence-1.1-int-0143	Notification of Only Authorized Presence Information is sent to Watchers (Changed to mandatory)	Verify that a watcher is notified of a specified subset of the presence information of a presentity, if the watcher falls into a group that the presentity decides to reveal a subset of his/her presence information to.

Presence-1.1-int-0145	Publication of Presence information not supported by watcher	Verify that presence information with non-OMA elements published by an UE will be handled correctly by another UE, which subscribes for that information.
Presence-1.1-int-0144	Reactive Authorization for a specific group (Includes Optional Features)	Verify that a presentity can authorize a group of watchers to subscribe to his/her presence information when the request from that watcher arrives (Reactive Authorization).
Presence-1.1-int-0150	Subscription to a resource list	Verify that an RLS can handle subscriptions to resource lists and distribute notifications including presence information to the Watcher.
Presence-1.1-int-0151	Adding a Presentity to an ongoing list subscription	Verify that an RLS can handle subscriptions to resource lists and distribute notifications including presence information to the Watcher.
Presence-1.1-int-0152	Subscription to shared lists	Verify that an RLS can handle subscriptions to resource lists pointing to groups in the Shared XDMS, and distribute notifications including presence information to the Watcher.
Presence-1.1-int-0153	Adding a Presentity to an ongoing shared list subscription	Verify that an RLS can handle subscriptions to resource lists pointing to groups in the Shared XDMS and distribute notifications including presence information to the Watcher.
Presence-1.1-int-0141	Notification Filtering (Includes Optional Features)	Verify that a UE, acting as a Watcher, can subscribe using notification filtering and that the Presence Server applies filtering and notifies the correct information.
Presence-1.1-int-0142	Event Notification Filtering (Includes Optional Features)	Verify that a UE, acting as a Watcher, can subscribe using event notification filtering and that the Presence Server applies filtering and notifies the correct information whenever the filter is triggered.
Presence-1.1-int-0160	RLS Event notification filtering (Includes Optional Features)	Verify that a UE, acting as a Watcher, can subscribe using event notification filtering to a resource list and that the Resource List Server applies filtering and notifies the correct information whenever the filter is triggered.

5.3 Subscription to Watcher Information

Test Case Presence V1.1 ID	Test Case name	Test Case Description
Presence-1.1-int-0200	Subscribe to Watcher Information	Verify that a UE successfully Subscribes to Watcher Information
Presence-1.1-int-0210	Publication of presence information, Watcher is pending	Verify that UE successfully publishes and receives presence information after reactive authorization.
Presence-1.1-int-0211	Notification to Watcher Information Subscriber when a subscription to His/Her Presence Information Expires (Includes Optional features)	Verify that a Watcher Information Subscriber can receive notifications whenever one of the subscription to his/her Presence Information expires.

5.4 XDM Operations

Test Case Presence V1.1 ID	Test Case name	Test Case Description
Presence-1.1-int-0123	Authorization management for groups	Verify that a Presence Server can handle the Presence Rules document for groups of watchers stored in the Shared XDMS.
Presence-1.1-int-0124	Combining permissions on an ongoing subscription	Verify that a Presence Server can handle changes for the Presence Rules document for Watchers (individual Watchers or groups) stored in the Shared XDMS.
Presence-XDM-1.1-int-0200	Presence XDMS Document Creation, Retrieval and Validation	Verify that the user can create and retrieve an XML document from the Presence XDMS.
Presence-XDM-1.1-int-0201	Presence XDMS Document Retrieval and Validation	Verify that the user can retrieve an XML document from the Presence XDMS.
Presence-XDM-1.1-int-0202	Presence XDMS Element Creation, Retrieval and Validation	Verify that the UE can create and retrieve XML elements from the Presence XDMS.
Presence-XDM-1.1-int-0203	Presence XDMS Document and Element Modification, Retrieval and Validation	Verify that the UE can modify and retrieve XML elements and documents from the Presence XDMS.
Presence-XDM-1.1-int-0204	Presence XDMS Element Deletion, Retrieval and Validation	Verify that the UE can delete XML elements from the Presence XDMS.
Presence-XDM-1.1-int-0205	Presence XDMS Document Deletion, Retrieval and Validation	Verify that the UE can delete an XML document from the Presence XDMS.
RLS-XDM-1.1-int-0200	RLS XDMS Document Creation, Retrieval and Validation	Verify that the user can create and retrieve an XML document from the RLS XDMS.
RLS-XDM-1.1-int-0201	RLS XDMS Document Retrieval and Validation	Verify that the user can retrieve an XML document from the RLS XDMS.

RLS-XDM-1.1-int-0202	RLS XDMS Element Creation, Retrieval and Validation	Verify that the UE can create and retrieve XML elements from the RLS XDMS.
RLS-XDM-1.1-int-0203	RLS XDMS Document and Element Modification, Retrieval and Validation	Verify that the UE can modify and retrieve XML elements and documents from the RLS XDMS.
RLS-XDM-1.1-int-0204	RLS XDMS Element Deletion, Retrieval and Validation	Verify that the UE can delete XML elements from the RLS XDMS.
RLS-XDM-1.1-int-0205	RLS XDMS Document Deletion, Retrieval and Validation	Verify that the UE can delete an XML document from the RLS XDMS.

6. Interoperability Test Cases for Presence SIMPLE 2.0

This chapter lists the interoperability test cases for Presence 2.0 that are designed to test the new features included in Presence 2.0 and not in any other previous version of the enabler.

6.1 Publication of Presence Information

6.1.1 PS-controlled Presence Information Re-publication (Includes Optional Features)

Test Case Id	Presence-2.0-int-0100
Test Object	UE with Presence Source functionality and PS-controlled Presence Information Re-publication capabilities, Presence Server with PS-controlled Presence Information Re-publication capabilities.
Test Case Description	Verify that a Presence Server is able to request a Presence Source to re-publish previously established publication. TEST CASE GOAL: Verify that Presence Server properly requests for re-publication of Presence Information and that Presence Source successfully handles such a request.
Specification Reference	[PRS_Spec] 5.1.2.6, 5.5.1.5, 5.5.2
SCR Reference	PRS-SRC-C-015-O, PRS-PS-S-010-O
ETR Reference	PUB-018
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o PS has been configured with a local policy that requests PS-controlled Re-publication when an initial Watcher subscription occurs. o User1 has an active publication. o User2 has no active subscriptions to User1.
Test Procedure	1. User2 subscribes to User1´s presence Information.
Pass-Criteria	1. Presence Server requests UE1 for re-publication of User1 Presence information. 1. UE1 performas a one-time republication of User1 Presence Information. 1. UE2 displays User1´s presence information

6.1.2 Permanent Presence State (Includes Optional Features)

Test Case Id	Presence-2.0-int-0101
Test Object	UEs with Presence Source, XDMC and Watcher functionality and Permanent Presence State capabilities, Presence Server with Permanent Presence State capabilities, Presence XDMS.
Test Case Description	Verify that a Presentity is able to publish Permanent Presence Information and Presence Server is able to use this Permanent Presence Information as input for the Presence Information Processing, TEST CASE GOAL: Verify that UE1 (Presence Source) can publish User1's Permanent Presence Information, Presence Server allows such a request, processes the Presence Information and UE2 (Watcher) receives User1´s Presence Information.
Specification Reference	5.1.3, 5.2.2, 5.5.3.2, 5.5.1.4, 5.5.5
SCR Reference	[PRS_Spec] PRS-SRC-C-016-O, PRS-SRC-C-017-O, PRS-PS-S-007-O, PRS-PS-S-008-O, PRS-PS-S-009-O, PRS-PS-S-021-M
ETR Reference	PUB-013
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 and User2 will have a set of commonly supported Presence elements. o User1 has no active publication. o User1 has no Permanent Presence State. o User2 has an active subscription to User1.
Test Procedure	1. User1 sets Permanent Presence State for all commonly supported Presence elements. 2. User1 publishes Presence Information with different Presence Information than in step 1. 3. User1 removes the Presence Information published in step 2.
Pass-Criteria	1. UE2 displays User1´s Permanent Presence State. 2. UE2 displays updated User1´s Presence Information. 3. UE2 displays User1´s Permanent Presence State.

6.1.3 Publication of direct MIME objects (Includes Optional Features)

Test Case Id	Presence-2.0-int-0102
Test Object	UEs with Presence Source and Watcher functionality and MIME object handling capabilities, Presence Server with MIME object handling capabilities, Presence XDMS.
Test Case Description	Verify that a Presence Source is able to publish MIME objects directly together with the presence document, the Presence Server accepts such a publication and generates a notifications to Watchers. TEST CASE GOAL: Verify that UE1 (Presence Source) can publish MIME Presence Information together with the presence document, Presence Server handles the publication and UE2, as Watcher, Receives the Presence Information.
Specification Reference	[PRS_Spec] 5.1.2.2.2, 5.5.1.3, 5.2.5.1, 5.5.2.1
SCR Reference	PRS-SRC-C-009-O, PRS-PS-S-006-O, PRS-PS-S-015-O, PRS-WTR-C-009-O
ETR Reference	PUB-009, SUB-018
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o The Presence Server has a maximum limit for the size of MIME objects included in publication requests. o UE2 is capable of displaying presence information. o User1 and User2 have a set of commonly supported Presence elements. These Presence elements include MIME objects. o User1 has no active publication. o User2 has no active subscriptions for User1.
Test Procedure	1. User1 publishes presence information for all commonly supported Presence elements including MIME objects with a size smaller than the Presence Server maximum limit. 2. User2 subscribes to User1´s presence Information.
Pass-Criteria	2. UE2 displays all the presence information published by User1 including the MIME objects properly rendered.

6.1.4 Publication of indirect MIME objects (Includes Optional Features)

Test Case Id	Presence-2.0-int-0103

Test Object	UEs with Presence Source and Watcher functionality with content indirection capabilities, Presence Server with content indirection handling capabilities, Presence XDMS, Content Server.
Test Case Description	Verify that a Presence Source is able to perform content indirection of MIME objects stored in a Content Server, the Presence Server accepts such a publication and generates a notification to the Watcher. TEST CASE GOAL: Verify that UE1 (Presence Source) can store MIME objects in the Content Server and perform content indirection of that information, Presence Server handles the publication and UE2, as Watcher, Receives the Presence Information.
Specification Reference	[PRS_Spec] 5.1.2.2.1, 5.5.1.3, 5.10, 5.2.5.2, 5.5.2.1
SCR Reference	PRS-SRC-C-008-O, PRS-PS-S-005-O, PRS-PS-S-014-O, PRS-WTR-C-010-O
ETR Reference	PUB-010, SUB-019
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS o Content Server • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 and User2 have a set of commonly supported Presence elements. These Presence elements include MIME objects. o User1 has no active publication. o User2 has no active subscriptions for User1.
Test Procedure	1. User1 stores a MIME Presence element in the Content Server 2. User1 publishes presence information for all commonly supported Presence elements including indirection for the Presence element stored in Content Server 3. User2 subscribes to User1´s presence Information.
Pass-Criteria	3. UE2 displays all the presence information published by User1 including the MIME objects properly rendered.

6.1.5 Publication of MIME object via Presence Content XDMS (Includes Optional Features)

Test Case Id	Presence-2.0-int-0104
Test Object	UEs with Presence Source, Watcher and XDMC functionality, Presence Server, Presence XDMS, Presence Content XDMS.

Test Case Description	Verify that Presence Content XDMS handles publication of MIME objects requests from UE (Presence Source) and that Presence information can be fetched by another UE (Watcher). TEST CASE GOAL: Verify that UE1 (Presence Source) can publish User1's MIME Presence Information using XDM procedures, Presence Content XDMS stores the MIME object and UE2, as Watcher, will fetch MIME Presence information using XDM procedures.
Specification Reference	[PRS_Spec] 5.1.2.2.3, 5.2.5.3, 5.11
SCR Reference	PRS-SRC-C-010-O, PRS-WTR-C-011-O, PRS-CNTXDM-S-001-M, PRS-CNTXDM-S-002-O, PRS-CNTXDM-S-003-M, PRS-CNTXDM-S-004-O
ETR Reference	PUB-011, SUB-020
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS o Presence Content XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 and User2 have a set of commonly supported Presence elements which includes the <status-icon> Presence Information Element o User1 has no active publication. o User2 has no active subscriptions for User1.
Test Procedure	1. User1 stores his/her <status-icon> element in the Presence Content XDMS using XDM procedures. 2. User1 publishes presence information for all commonly supported Presence elements including the URI of the <status-icon> Presence Information Element previously stored as per step 1. 3. User2 subscribes to User1´s presence Information.
Pass-Criteria	3. UE2 displays all the presence information published by User1, including the <status-icon> Presence Information Element.

6.1.6 Publication on behalf of another Presentity (Includes Optional Features)

Test Case Id	Presence-2.0-int-0105
Test Object	UEs with Presence Source and Watcher functionality and publishing on behalf of another Presentity capabilities, Presence Server with publish on behalf of another Presentity capabilites, Presence XDMS.

Test Case Description	Verify that a Presentity is able to publish Presence Information on behalf of another Presentity and Presence Server is able to apply Presence Publication Authorization Rules on such a request TEST CASE GOAL: Verify that UE1 (Presence Source) can publish User2's Presence Information, Presence Server allows such a request and UE3 (Watcher) receives User2´s Presence Information.
Specification Reference	[PRS_Spec] 5.1.2, 5.5.3.1, 5.5.3.1.1, 5.5.3.1.2, 5.5.5
SCR Reference	PRS-SRC-C-005-O, PRS-PS-S-017-O, PRS-PS-S-018-O, PRS-PS-S-019-O, PRS-PS-S-020-O
ETR Reference	PUB-017
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User3 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User2 and the Presence Publication Rules document contains information that User1 is allowed to publish any presence information belonging to User2. o UE3 is capable of displaying presence information. o User1, User2 and User3 will have a set of commonly supported Presence elements. o User1 has no active publication. o User2 has no active publication. o User3 has an active subscription for User2.
Test Procedure	1. User1 publishes User2´s presence information for all commonly supported Presence elements.
Pass-Criteria	1. UE3 displays User2´s presence information published by User1

6.1.7 Publication on behalf of another Presentity (Error flow) (Includes Optional Features)

Test Case Id	Presence-2.0-int-0106
Test Object	UEs with Presence Source and Watcher functionality and publishing on behalf of another Presentity capabilities, Presence Server with publish on behalf on another Presentity capabilities, Presence XDMS.
Test Case Description	Verify that a publish request on behalf of another Presentity which do not conform with corresponding publication content rules will be handled correctly by Presence Server TEST CASE GOAL: Verify that when UE1 publishes presence information

	on behalf of User2 which do not conform to User2 Publication Content Rules the Presence Server rejects the request and provides the URI of the Publication Content Rules Presence Source View document to UE1. Then, UE1 publishes presence information conforming to User2 Publication Content Rules Presence Source View and UE3, as a Watcher, receives the information
Specification Reference	[PRS_Spec] 5.1.2, 5.5.3.1, 5.5.3.1.1, 5.5.3.1.2, 5.5.5
SCR Reference	PRS-SRC-C-005-O, PRS-PS-S-016-O, PRS-PS-S-017-O, PRS-PS-S-018-O, PRS-PS-S-019-O, PRS-PS-S-020-O
ETR Reference	PUB-020
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User3 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subsciption Rules document contains information that User3 is authorized to see any of the presence information belonging to User2 and the Presence Publication Rules document contains information that User1 is allowed to publish only a subset of the commonly supported Presence elements on behalf of User2. o UE3 is capable of displaying presence information. o User2 and User3 will have a set of commonly supported Presence elements. o User1 has no active publication. o User2 has no active publication. o User3 has an active subscriptions for User2.
Test Procedure	1. User1 publishes presence information for all User2´s commonly supported Presence elements. 2. Presence Server responds to UE1 with a 488 (Not Acceptable Here) message which includes a Policy-Contact header field with the Publication Content Rules Presence Source View document URI. 3. UE1 receives the response from Presence Server, fetches the Publication Content Rules Presence Source View document from Presence XDMS and publishes presence information for Presence elements allowed by Publication Content Rules Presence Source View.
Pass-Criteria	2. UE3 does not display User2´s presence information published by User1. 3. UE3 displays User2´s presence information published by User1

6.1.8 Permanent Presence State on behalf of another Presentity (Includes Optional Features)

Test Case Id	Presence-2.0-int-0107

Test Object	UEs with Presence Source, XDMC and Watcher functionality with Permanent Presence State on behalf of another Presentity capabilities, Presence Server with Permanent Presence State on behalf of another Presentity capabilities, Presence XDMS.
Test Case Description	Verify that a Presentity is able to publish Permanent Presence Information on behalf of another Presentity and Presence Server is able to use this Permanent Presence Information as input for the Presence Information Processing, TEST CASE GOAL: Verify that UE1 (Presence Source) can publish User2's Permanent Presence Information, Presence XDMS allows such a request, Presence Server processes the Presence Information and UE3 (Watcher) receives User2´s updated Presence Information.
Specification Reference	[PRS_Spec] 5.1.3, 5.2.2, 5.5.3.2, 5.5.1.4, 5.5.5
SCR Reference	PRS-SRC-C-016-O, PRS-SRC-C-018-O, PRS-PS-S-007-O, PRS-PS-S-008-O, PRS-PS-S-009-O, PRS-PS-S-021-M
ETR Reference	PUB-014
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 3 UEs (with User1, User2 and User3 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User2 and the Presence Publication Rules document contains information that User1 is allowed to publish Permanent Presence Information on behalf of User2. o UE3 is capable of displaying presence information. o User1, User2 and User3 will have a set of commonly supported Presence elements. o User1 has no active publication. o User2 has no active publication. o User3 has an active subscription for User2.
Test Procedure	1. UE1 sets User2 Permanent Presence State for all commonly supported Presence elements. 2. UE2 publishes User2 Presence Information with different Presence Information than in step 1. 3. UE2 removes User2 Presence Information published in step 2.
Pass-Criteria	1. UE3 displays User2´s Permanent Presence State. 2. UE3 displays updated User2´s Presence Information. 3. UE3 displays User2´s Permanent Presence State.

6.1.9 Optimising publications for network element (includes optional features)

Test Case Id	Presence-2.0-int-0108
Test Object	Presence Source, Presence Server, Watcher Information Subscriber
Test Case Description	Verify that a Presence Source implemented in a network element publishes only the Presence Information that Watchers are interested in, and a Presence Server informs the Presence Source about this information TEST CASE GOAL: Verify that a Presence Server request to a network element (NE), acting as a Presence Source, to trigger a subscription to Watcher Information in order to be informed of what information are the Watchers (subscribed to the Presence Information being published by NE) interested in.
Specification Reference	[PRS_Spec] 5.1.2.5, 5.1.2.5.1, 5.3.1.3, 5.3.1.3.1, 5.5.4.3
SCR Reference	PRS-SRC-C-013-O, PRS-SRC-C-014-O, PRS-WIS-C-004-O, PRS-WIS-C-005-O, PRS-PS-S-036-O
ETR Reference	PUB-016
Tool	Not available.
Test code	Not available.
Preconditions	• Equipment: o A network element (NE) with Presence Source and Watcher Information Subscriber functionalities for optimizing publications for network elements. o 1 UE with User1 credentials. o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User1 is authorized to see any of the presence information belonging to User2. o User1 and User2 have a set of commonly supported Presence elements. o UE1 is capable of displaying Presence Information. o NE has no active publication but is aware of User2 Presence Information. o NE is able to publish User2 Presence Information and PS is configured with NE as responsible of publishing User2 Presence Information.
Test Procedure	1. User1 subscribes to User2's Presence Information. 2. User1 finishes his/her subscription to User2's Presence Information. 3. NE changes one of User2's Presence Information elements (e.g: change of mood).

Pass-Criteria	1. UE1 displays User2's Presence Information. 2. UE1 does not display User2's Presence Information. 3. No publication is generated (inspection of log/activity files in NE/PS or a test tool may be needed).

6.1.10 Optimising publication of Presence Information for UEs (Includes optional features)

Test Case Id	Presence-2.0-int-0109
Test Object	UE with Presence Source and Watcher Information Subscriber with optimizing publication capabilities.
Test Case Description	Verify that a UE, acting as a Presence Source, can optimize publication of Presence Information based on the Watcher Information received by the Watcher Information Subscriber. TEST CASE GOAL: Verify that User1, acting as a Presence Source, only publishes Presence Information when there is at least one Watcher subscribed to its Presence Information.
Specification Reference	[PRS_Spec] 5.1.2.5, 5.3.1, 5.3.1.1, 5.3.1.3, 5.5.4
SCR Reference	PRS-SRC-C-013-O, PRS-WIS-C-004-O, PRS-PS-S-034-M, PRS-PS-S-035-M
ETR Reference	PUB-015
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o UE 1 with User1 credentials o UE 2 with User 2 credentials o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information o User1 and User2 have a set of commonly supported Presence elements. o User1 has no active publications. o UE1 has co-located Presence Source and Watcher Information Subscriber. o User2 has an active subscription to User1's Presence Information.
Test Procedure	1. UE1 publishes all commonly supported Presence elements. 2. User2 finishes his/her subscription to presence information of

	User1. 3. User1 changes one of his/her Presence Information elements (e.g: change of mood)
Pass-Criteria	1. UE2 displays the Presence Information published by UE1. 2. UE2 displays no Presence Information for User1. 3. No publication is generated (inspection of log/activity files in the client/PS or a test tool may be needed).

6.2 Subscription to Presence Information

6.2.1 Subscription to a request-contained presence list (Includes Optional Features)

Test Case Id	Presence-2.0-int-0200
Test Object	UEs with Presence Source, XDMC and Watcher functionality and request-contained presence list subscription capabilities, Presence Server, Presence XDMS, RLS with request-contained presence list handling capabilities.
Test Case Description	Verify that a Watcher is able to generate subscriptions to a request-contained Presence List and the RLS handles such a request. TEST CASE GOAL: Verify that when UE1 (Watcher) requests a subscription to a request-contained Presence list including User2 and User3 (Presentities), RLS handles this request and UE1 is able to receive User2 and User3 Presence Information.
Specification Reference	[PRS_Spec] 5.2.1.2.2, 5.6.1, 5.6.2
SCR Reference	PRS-WTR-C-003-O, PRS-RLS-S-002-O, PRS-RLS-S-005-M
ETR Reference	SUB-015
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 3 UEs (with User1, User2 and User3 credentials) o Presence Server o Presence XDMS o RLS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User1 is authorized to see any of the presence information belonging to User2 and User3. o UE1 is capable of displaying presence information. o User1, User2 and User3 have a set of commonly supported Presence elements. o User2 and User3 have active publications. o User1 has no active subscriptions for User2 or User3 Presence

	Information.
Test Procedure	1. User1 sends a request-contained Presence List subscription including User2 and User3.
Pass-Criteria	1. UE1 displays all the presence information published by User2 and User3.

6.2.2 Direct Event Notification Suppression

Test Case Id	Presence-2.0-int-0201
Test Object	UEs with Watcher functionality with Event Notification Suppression capabilities, Presence Server.
Test Case Description	Verify that a Watcher can directly enable Event Notification Suppression and it will not receive any more notification coming from Presence Server TEST CASE GOAL: Verify that UE1 (Watcher) can enable Event Notification Suppression so it will not receive any notifications from Presence Server about changes on User2 (Presence Source) Presence Information until Event Notification Suppression is disabled.
Specification Reference	[PRS_Spec] 5.2.8.1, 5.5.3.4
SCR Reference	PRS-WTR-C-014-O, PRS-PS-S-029-M
ETR Reference	SUB-007
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User2 and User1 will have a set of commonly supported Presence elements. o UE1 has no active publication. o UE2 has an active subscription for User1.
Test Procedure	1. User1 publishes presence information for all commonly supported Presence elements. 2. UE2 directly enables event notification suppression 3. User1 modifies any presence information element other than his/her Presence state, e.g. change of mood. 4. UE2 directly disables event notification suppression.
Pass-Criteria	1. UE2 displays the presence information published by User1 3. UE2 displays on the same presence information as in step 1.

	4. UE2 displays the updated presence information related to User1.

6.2.3 Conditional Event Notification Suppression based on Watcher's Presence Information (Includes Optional Features)

Test Case Id	Presence-2.0-int-0202
Test Object	UEs with Watcher functionality, Presence Server and Watcher Agent with Event Notification Suppression capabilities.
Test Case Description	Verify that a Watcher can enable Event Notification Suppression by requesting the Watcher Agent to conditionally suppress event notifications based on the Watcher's own presence state. TEST CASE GOAL: Verify that UE2 (Watcher) can specify the conditions of its own presence state when it does not wish to receive any notifications of changes on User1 (Presentity) Presence Information.
Specification Reference	[PRS_Spec] 5.2.8.2, 5.4.3, 5.5.3.4
SCR Reference	PRS-WTR-C-015-O, PRS-WTR-C-016-O, PRS-WA-S-003-O, PRS-WA-S-004-O
ETR Reference	SUB-021
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS o Watcher Agent • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User2 and User1 will have a set of commonly supported Presence elements. o UE1 has no active publication. o UE2 has an active publication. o UE2 has an active subscription for User1. o UE1 supports presence-based event notification suppression filter
Test Procedure	1. User1 publishes presence information for all commonly supported Presence elements. 2. UE2 enables event notification suppression by setting his/her presence-based event notification suppression filter for some criteria (e.g. Presence State equals "not available") 3. User2 changes his/her Presence State to "not available"

	4. User1 modifies his presence information, e.g. change of mood. 5. UE2 disables event notification suppression by setting his/her presence-based event notification suppression filter to empty
Pass-Criteria	1. UE2 displays the presence information published by User1 4. UE2 displays the same presence information as in step 1. 5. UE2 displays the updated presence information related to User1.

6.2.4 Local policy activated Event Notification Suppression based on Watcher's Presence Information (Include Optional Features)

Test Case Id	Presence-2.0-int-0203
Test Object	UEs with Watcher functionality, Presence Server and Watcher Agent with Event Notification Suppression capabilities.
Test Case Description	Verify that a Watcher Agent can enable Event Notification Suppression for a Watcher according to local policy TEST CASE GOAL: Verify that Watcher Agent can enable Event Notification Suppression per local policy so UE1 (Watcher) will not receive any notifications from Presence Server about changes on User2 (Presence Source) Presence Information
Specification Reference	[PRS_Spec] 5.4.3, 5.5.3.4
SCR Reference	PRS-WA-S-003-O, PRS-WA-S-004-O
ETR Reference	SUB-021
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS o Watcher Agent • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User2 and User1 will have a set of commonly supported Presence elements. o UE1 has no active publication. o UE2 has an active subscription for User1. o UE2 has an active publication o User2's Presence State equals "available" o Watcher Agent has been configured with a local policy to activate Event Notification Suppression when Watcher's Presence State equals "not available"

Test Procedure	1. User1 publishes presence information for all commonly supported Presence elements. 2. User2 changes his/her Presence state to “not available” 3. User1 modifies his presence information, e.g. change of mood. 4. User2 changes his/her Presence state to “available”
Pass-Criteria	1. UE2 displays the presence information published by User1 3. UE2 displays the same presence information as in step 1. 4. UE2 displays the updated presence information related to User1.

6.2.5 Conditional Event Notifications

Test Case Id	Presence-2.0-int-0204
Test Object	UEs with Watcher and Presence Source functionality and conditional event notifications capabilities, Presence Server with conditional event notifications capabilities.
Test Case Description	Verify that a Watcher is able to request conditional subscriptions and the Presence Server is able to handle properly such a request TEST CASE GOAL: Verify that UE2 is able to request a conditional event notification to User1´s Presence information. Presence Server will suppress the NOTIFY request or the NOTIFY request body as long as User1´s Presence state remains unchanged.
Specification Reference	[PRS_Spec] 5.2.6, 5.5.3.8, 5.5.3.9
SCR Reference	PRS-WTR-C-012-O, PRS-PS-S-033-M, PRS-PS-S-013-M
ETR Reference	SUB-005
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UE (with User1 and User2 credentials) o Presence Server. o Presence XDMS. • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 has an active publication. o User2 has no active subscriptions.
Test Procedure	1. User2 subscribes to User1´s presence information. 2. User2 refreshes his/her subscription with appropriate etag (received after step1) since his/her subscription expiration time is about to be met. 3. User1 modifies his/her Presence state.
Pass-Criteria	1. UE2 displays the presence information published by User1.

	2. UE2 displays the same presence information as in step1. As no changes have been made to User1 presence information, no notification or notification with empty body has been actually sent to UE2 (inspection of log/activity files in the client or the PS may be needed). 3. UE2 displays the updated presence information published by User1.

6.2.6 Conditional Event Notifications for resource list subscriptions

Test Case Id	Presence-2.0-int-0205
Test Object	UEs with Watcher and Presence Source functionality and conditional event notifications capabilities, Presence Server and RLS with conditional event notifications capabilities.
Test Case Description	Verify that a Watcher is able to request conditional subscriptions for resource list and the RLS and Presence Server are able to handle properly such a request TEST CASE GOAL: Verify that UE3 is able to request a conditional event notification to a resource list containing User1 and User2. RLS will handle such a request properly and generate the corresponding back-end conditional subscriptions. Presence Server and RLS will suppress the NOTIFY request or the NOTIFY request body as long as User1´s and User2's Presence state remains unchanged.
Specification Reference	[PRS_Spec] 5.2.6, 5.5.3.8, 5.5.3.9, 5.6.4
SCR Reference	PRS-WTR-C-012-O, PRS-PS-S-033-M, PRS-PS-S-013-M, PRS-RLS-S-012-M
ETR Reference	SUB-005
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 3 UE (with User1, User2 and User3 credentials) o Presence Server. o RLS o Presence XDMS o RLS XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User1 and User2. o The RLS XDMS stores a resource list containing User1 and User2 as members. o UE3 is capable of displaying presence information. o User1 has an active publication. o User2 has an active publication. o User3 has no active subscriptions.
Test Procedure	1. User3 subscribes to the resource list containing User1 and User2 as

	members 2. User3 refreshes his/her subscription with appropriate etag (received after step1) since his/her subscription expiration time is about to be met. 3. User1 modifies his/her presence status
Pass-Criteria	1. UE3 displays the presence information published by User1 and User2. 2. UE3 displays the same presence information as in step1. As no changes have been made to User 1 nor User2 presence information, no notification or notification with empty body has been actually sent to UE3 (inspection of log/activity files in the client or the PS and RLS may be needed). 4. UE3 displays the updated presence information published by User1.

6.2.7 Watcher-requested Event notification throttling

Test Case Id	Presence-2.0-int-0206
Test Object	UEs with Watcher and Presence Source functionality and event notification throttling capabilities, Presence Server with event notification throttling capabilities.
Test Case Description	Verify that a Watcher is able to request event notification throttling and the Presence Server is able to handle properly such a request TEST CASE GOAL: Verify that UE2 is able to request event notification throttling and Presence Server will limit the rate at which notifications are generated.
Specification Reference	[PRS_Spec] 5.2.7, 5.5.3.6
SCR Reference	PRS-WTR-C-013-O, PRS-PS-S-031-M
ETR Reference	SUB-006
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UE (with User1 and User2 credentials) o Presence Server. o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 has an active publication. o User2 has no active subscriptions.
Test Procedure	1. User2 subscribes to User1´s presence information with a throttle value. 2. User1 modifies his/her presence information before the throttle

	value as per step 1 is reached 3. Notification throttling limit is reached
Pass-Criteria	1. UE2 displays the presence information published by User1. 2. UE2 displays the same presence information as in step 1. 3. UE2 displays the updated presence information published by User1.

6.2.8 Local Policy Event notification throttling

Test Case Id	Presence-2.0-int-0207
Test Object	UEs with Watcher and Presence Source functionality and event notification throttling capabilities, Presence Server with event notification throttling capabilities.
Test Case Description	Verify that the Presence Server applies its local throttling configuration setting when a Watcher requests event notification throttling with a lower proposed throttle value. TEST CASE GOAL: Verify that Presence Server will not generate any notification until the local configured notification rate limit is reached when the rate limit proposed by the Watcher is lower than the local configured limit.
Specification Reference	[PRS_Spec] 5.2.7, 5.5.3.6
SCR Reference	PRS-WTR-C-013-O, PRS-PS-S-031-M
ETR Reference	SUB-006
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UE (with User1 and User2 credentials) o Presence Server. o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o The Presence Server has been configured with a local throttling configuration setting. o UE2 is capable of displaying presence information. o User1 has an active publication. o User2 has no active subscriptions.
Test Procedure	1. User2 subscribes to User1´s presence information with a throttle value lower than the local throttling configuration setting. 2. User1 modifies his/her presence information before the throttle value proposed by the watcher is reached. 3. The throttle value proposed by the Watcher is reached. 4. The local thorlling configuration setting is reached.

Pass-Criteria	1. UE2 displays the presence information published by User1. 2. UE2 displays the same presence information as in step 1. 3. UE2 displays the same presence information as in step 1. 4. UE2 displays the updated presence information published by User1.

6.2.9 Watcher-requested Event notification throttling for resource list subscription

Test Case Id	Presence-2.0-int-0208
Test Object	UEs with Watcher and Presence Source functionality and event notification throttling capabilities, RLS with event notification throttling capabilities.
Test Case Description	Verify that a Watcher is able to request event notification throttling and the RLS is able to handle properly such a request TEST CASE GOAL: Verify that UE2 is able to request event notification throttling and RLS will not generate any notification until the notification throttling limit is reached.
Specification Reference	[PRS_Spec] 5.2.7, 5.6.7
SCR Reference	PRS-WTR-C-013-O, PRS-RLS-S-018-M
ETR Reference	SUB-006
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 3 UE (with User1, User2 and User3 credentials) o Presence Server. o RLS o Presence XDMS o RLS XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User1 and User2. o The RLS XDMS stores a resource list containing User1 and User2 as members. o UE3 is capable of displaying presence information. o User1 has an active publication. o User2 has an active publication. o User3 has no active subscriptions.
Test Procedure	1. User3 subscribes to the resource list containing User1 and User2 as members with a throttle value 2. User1 modifies his/her presence information before the throttle value as per step 1 is reached 3. Notification throttling limit is reached

Pass-Criteria	1. UE3 displays the presence information published by User1 and User2. 2. UE3 displays the same presence information as in step 1. 3. UE3 displays the updated presence information published by User1.

6.2.10 Local policy Event notification throttling for resource list subscription

Test Case Id	Presence-2.0-int-0209
Test Object	UEs with Watcher and Presence Source functionality and event notification throttling capabilities, RLS with event notification throttling capabilities.
Test Case Description	Verify that the RLS applies its local throttling configuration setting when a Watcher requests event notification throttling for resource list with a lower proposed throttle value. TEST CASE GOAL: Verify that RLS will not generate any notification until the local configured notification rate limit is reached then the rate limit proposed by the Watcher is lower than the local configured limit.
Specification Reference	[PRS_Spec] 5.2.7, 5.6.7
SCR Reference	PRS-WTR-C-013-O, PRS-RLS-S-018-M
ETR Reference	SUB-006
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 3 UE (with User1, User2 and User3 credentials) o Presence Server. o RLS o Presence XDMS o RLS XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User1 and User2. o The RLS has been configured with a local throttling configuration setting. o The RLS XDMS stores a resource list containing User1 and User2 as members. o UE3 is capable of displaying presence information. o User1 has an active publication. o User2 has an active publication. o User3 has no active subscriptions.
Test Procedure	1. User3 subscribes to the resource list containing User1 and User2 as members with a throttle value lower than the local throttling configuration setting

	2. User1 modifies his/her presence information before the throttle value as per step 1 is reached. 3. The throttle value proposed by the Watcher is reached 4. The local thorlling configuration setting is reached.
Pass-Criteria	1. UE3 displays the presence information published by User1 and User2. 2. UE3 displays the same presence information as in step 1 3. UE3 displays the same presence information as in step 1 4. UE3 displays the updated presence information published by User1.

6.2.11 Limiting the number of subscription for a Watcher (Includes Optional Features)

Test Case Id	Presence-2.0-int-0210
Test Object	UEs with Watcher and Presence Source functionality, Watcher Agent with subscription limit capabilities.
Test Case Description	Verify that a Watcher Agent can limit the number of subscriptions for a Watcher. TEST CASE GOAL: Verify that Watcher Agent rejects new subscriptions from UE1 once the maximum number of simultaneous subscriptions has been reached.
Specification Reference	[PRS_Spec] 5.4.2
SCR Reference	PRS-WA-S-002-O
ETR Reference	SUB-023
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UE (with User1 and User2 credentials) o Watcher Agent • Prerequisite for this test: o Watcher Agent has been configured with a maximum number of simultaneous subscriptions for User1. o UE1 is capable of displaying presence information. o User1 has a number of active subscriptions equal to the maximum number of simultaneous subscriptions allowed by the Watcher Agent. o User2 has an active publication.
Test Procedure	1. User1 subscribes to User2´s presence information.
Pass-Criteria	1. UE1 displays no presence information for User2 (UE1 gets the 480 “Maximum number of subscriptions exceeded” response.).

6.3 Subscription to Watcher Information

6.3.1 Event Notification filtering for Watcher information (Includes Optional Features)

Test Case Id	Presence-2.0-int-0300
Test Object	UEs with Watcher, Presence Source, XDMC and Watcher Information Subscriber with event notification filtering capabilities, Presence Server with event notification filtering capabilities.
Test Case Description	Verify that a UE, acting as a Watcher Information Subscriber, can subscribe to Watcher Information using event notification filtering and that the Presence Server applies filtering and notifies the correct Watcher Information whenever the filter is triggered. TEST CASE GOAL: Verify that User1, acting as a Watcher Information Subscriber, only gets the Watcher Information that has been asked for whenever the filter is triggered.
Specification Reference	[PRS_Spec] 5.3.1.2, 5.5.4.1
SCR Reference	PRS-WIS-C-003-O
ETR REference	SUB-WI-008
Tool	N/A
Test Code	N/A
Preconditions	• Equipment: o 2 UEs (with User1 and User2 credentials) o Presence Server o Presence XDMS • Prerequisites for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 needs confirmation to see any of the presence information belonging to User1. o UE2 is capable of displaying presence information. o User1 and User2 have a set of commonly supported Presence elements. o UE1 is capable of subscribe to Watcher Information and set an event notification filter. o User1 has no active publication. o UE1 is capable of displaying Watcher Information. o User2 has no active subscription to User 1 Presence Information.
Test Procedure	1. User1 publishes all commonly supported presence elements. 2. User1 subscribes to Watcher Information with the following specific filter: when a subscription status has changed to "pending" or "waiting", only the watchers that have a status of "pending" or "waiting" are included

	3. User2 subscribes to User1's presence information. 4. User1 authorizes User2 via XDMC to see all of his/her Presence Information.
Pass-Criteria	3. UE1 displays the resulting User2's Watcher Information according to the applied Watcher Information filter requested by User1. 4. UE1 displays an empty Watcher Information.

6.4 XDM Operations

6.4.1 Subscription to changes in Presence Publication Rules document

Test Case Id	Presence-2.0-int-0400
Test Object	PS, Presence XDMS
Test Case Description	Verify that a Presence Server subscribes to changes in Presence Publication Rules document and handles the notifications. TEST CASE GOAL: Verify that a Presence Server subscribes to document changes and handles the notification and the Presence XDMS handles the subscription request and sends the notifications as required.
Specification Reference	[PRS_Spec] 5.5.5
SCR Reference	PRS-PS-S-018-O
ETR Reference	XOP-013
Tool	Not available.
Test code	Not available.
Preconditions	• Equipment: o 3 UEs (UE1 with User1, UE2 with User2 and UE3 with User3 credentials). o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User3 is authorized to see any of the presence information belonging to User1. o In the Presence XDMS, the Presence Publication Rules document contains information that User2 is able to publish all of User1's Presence Information on his/her behalf. o User1, User2 and User3 have a set of commonly supported Presence elements. o UE3 is capable of displaying Presence Information. o UE1 has no active publications. o UE2 has no active publications. o User3 has no active subscription for User1's Presence Information.

Test Procedure	1. UE2 initiates a publication for all of User1's Presence Information 2. User3 subscribes to User1's Presence Information. 3. User1 changes his/her Presence Publication Rules document denying the publication of the <mood> element by User2 (no publish or subscribe refresh has been generated in the meantime)
Pass-Criteria	2. UE3 displays all User1's Presence Information published by User2. 3. UE3 displays all User1's Presence Information but <mood> published by User2.

6.4.2 Subscription to changes in Presence Subscription Rules document

Test Case Id	Presence-2.0-int-0401
Test Object	PS, Presence XDMS
Test Case Description	Verify that a Presence Server subscribes to changes in Presence Subscription Rules document and handles the notifications. TEST CASE GOAL: Verify that a Presence Server subscribes to document changes and handles the notification and the Presence XDMS handles the subscription request and sends the notifications as required.
Specification Reference	[PRS_Spec] 5.5.5
SCR Reference	PRS_PS-S-025-O
ETR Reference	XOP-013
Tool	Not available.
Test code	Not available.
Preconditions	• Equipment: o 2 UEs (UE1 with User1 and UE2 with User2 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User2 is authorized to see any of the presence information belonging to User1. o User1 and User2 have a set of commonly supported Presence elements. o UE2 is capable of displaying Presence Information. o UE1 has no active publications. o UE2 has no active subscriptions.
Test Procedure	1. User1 publishes all of his/her Presence Information 2. User2 subscribes to User1's Presence Information. 3. User1 changes his/her Presence Subscription Rules document denying User2 to subscribe to any of his/her Presence Information (no publish or subscribe refresh has been generated in the meantime).
Pass-Criteria	2. UE2 displays the Presence Information published by User1. 3. UE2 does not display any of the Presence Information published by User1.

6.4.3 Subscription to changes in Permanent Presence State document

Test Case Id	Presence-2.0-int-0402
Test Object	PS, Presence XDMS
Test Case Description	Verify that a Presence Server subscribes to changes in Permanent Presence State document and handles the notifications. TEST CASE GOAL: Verify that a Presence Server subscribes to document changes and handles the notification and the Presence XDMS handles the subscription request and sends the notifications as required.
Specification Reference	[PRS_Spec] 5.5.5
SCR Reference	PRS_PS-S-009-O
ETR Reference	XOP-013
Tool	Not available.
Test code	Not available.
Preconditions	• Equipment: o 2 UEs (UE1 with User1 and UE2 with User2 credentials) o Presence Server o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Permanent Presence State document contains information about User1's <mood> element (e.g. <mood> value equals "calm"). o User1 and User2 have a set of commonly supported Presence elements. o UE2 is capable of displaying Presence Information. o UE1 has no active publications. o UE2 has no active subscriptions.
Test Procedure	1. User1 publishes all of his/her Presence Information (this publish request does not include any values for the <mood> element) 2. User2 subscribes to User1's Presence Information. 3. User1 changes his/her <mood> on his/her Permanent Presence State document using XCAP procedures (e.g. <mood> element value changes to "bored"). No publish or subscribe refresh has been generated in the meantime.
Pass-Criteria	2. UE2 displays the Presence Information published by User1 (including the <mood> element with value equals to "calm"). 3. UE2 displays the Presence Information published by User1 (including the <mood> element with value equals to "bored").

6.4.4 Subscription to changes in Shared List XDMS documents

Test Case Id	Presence-2.0-int-0403
Test Object	PS, Presence XDMS, Shared List XDMS
Test Case Description	Verify that a Presence Server subscribes to changes in Shared List XDMS and handles the notifications. TEST CASE GOAL: Verify that a Presence Server subscribes to document changes and handles the notification and the Shared List XDMS handles the subscription request and sends the notifications as required.

Specification Reference	[PRS_Spec] 5.5.5
SCR Reference	PRS-PS-S-027-O
ETR Reference	XOP-013
Tool	Not available.
Test code	Not available.
Preconditions	• Equipment: o 3 UEs (UE1 with User1 and UE2 with User2 credentials) o Presence Server o Presence XDMS o Shared List XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information stating that User1 allows an external list stored in the Shared List XDMS to see all of his/her Presence Information. This list that belongs to User1 includes User2 and User3 o The PS has been configured with a default policy of rejection for subscription authorization. o UE2 and UE3 are capable of displaying Presence Information. o User1 has an active publication. o User2 and User3 have no active subscriptions.
Test Procedure	1. User2 subscribes to User1's Presence Information 2. User3 subscribes to User1's Presence Information. 3. User1 removes User3 from his/her list using XCAP procedures. No publish or subscribe refresh has been generated in the meantime.
Pass-Criteria	1. UE2 displays the Presence Information published by User1. 2. UE3 displays the Presence Information published by User1. 3. UE3 does not display any of the Presence Information published by User1.

6.4.5 Subscribe to changes in RLS XDMS documents

Test Case Id	Presence-2.0-int-0404
Test Object	RLS, RLS XDMS
Test Case Description	Verify that a RLS subscribes to changes in Presence List document and handles the notifications. TEST CASE GOAL: Verify that a RLS subscribes to document changes and handles the notification and the RLS XDMS handles the subscription request and sends the notifications as required.
Specification Reference	[PRS_Spec] 5.6.56
SCR Reference	PRS-RLS-S-015-O
ETR Reference	XOP-014
Tool	Not available.
Test code	Not available.

Preconditions	• Equipment: o 3 UEs (UE1 with User1, UE2 with User2 and UE3 with User3 credentials). o RLS o RLS XDMS o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User1 is authorized to see any of the presence information belonging to User2 and User3. o In the RLS XDMS, User1's Presence List document contains a Resource List which only contains User2 as an entry. o User1, User2 and User3 have a set of commonly supported Presence elements. o UE1 is capable of displaying Presence Information. o UE1 has no active subscriptions. o UE2 has an active publication. o UE3 has an active publication. o User3 has no active subscription for User1's Presence Information.
Test Procedure	1. User1 subscribes to the Resource List. 2. User1 changes his/her Presence List document adding User3 as a new entry (no publish or subscribe refresh has been generated in the meantime).
Pass-Criteria	1. UE1 displays all the Presence Information published by User2. 2. UE2 displays all the Presence Information published by User2 and User3.

6.4.6 Subscribe to changes in Shared List XDMS documents (Includes Optional Features)

Test Case Id	Presence-2.0-int-0405
Test Object	RLS, Shared List XDMS
Test Case Description	Verify that a RLS subscribes to changes in Shared List XDMS document and handles the notifications. TEST CASE GOAL: Verify that a RLS subscribes to document changes and handles the notification and the Shared List XDMS handles the subscription request and sends the notifications as required.
Specification Reference	[PRS_Spec] 5.6.6
SCR Reference	PRS-RLS-S-017-O
ETR Reference	XOP-014
Tool	Not available.
Test code	Not available.

Preconditions	• Equipment: o 3 UEs (UE1 with User1, UE2 with User2 and UE3 with User3 credentials). o RLS o RLS XDMS o Presence XDMS • Prerequisite for this test: o In the Presence XDMS, the Presence Subscription Rules document contains information that User1 is authorized to see any of the presence information belonging to User2 and User3. o The RLS XDMS contains a Resource List for User1 which points to a URI list stored in the Shared List XDMS. o In the Shared List XDMS, User1's document contains a URI List which only contains User2 as an entry. o User1, User2 and User3 have a set of commonly supported Presence elements. o UE1 is capable of displaying Presence Information. o UE1 has no active subscriptions. o UE2 has an active publication. o UE3 has an active publication.
Test Procedure	1. User1 subscribes to the Resource List. 2. User1 changes his/her URI List stored in the Shared List XDMS (via XDM procedures) adding User3 as a new entry (no publish or subscribe refresh has been generated in the meantime).
Pass-Criteria	1. UE1 displays all the Presence Information published by User2. 2. UE2 displays all the Presence Information published by User2 and User3.

Appendix A. Change History (Informative)

A.1 Approved Version History

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

A.2 Draft/Candidate Version History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ETS-Presence_SIMPLE_INT-V2_0	09 Jul 2008	All	First draft version
	19 Sep 2008	6	CR incorporated: OMA-IOP-MEC-2008-0151
	29 Sep 2008	6.1, 6.2, 6.3	CRs incorporated: OMA-IOP-MEC-2008-0157R01 OMA-IOP-MEC-2008-0158R01 OMA-IOP-MEC-2008-0159R01 OMA-IOP-MEC-2008-0160R01 OMA-IOP-MEC-2008-0161R01 OMA-IOP-MEC-2008-0162R01 OMA-IOP-MEC-2008-0163R01 OMA-IOP-MEC-2008-0164R01 OMA-IOP-MEC-2008-0166R01 OMA-IOP-MEC-2008-0169
	09 Dec 2008	All	CR incorporated: OMA-IOP-MEC-2008-0211
	06 Jan 2009	6.1, 6.4	CRs incorporated: OMA-IOP-MEC-2008-0226 OMA-IOP-MEC-2008-0227R01
Candidate Version OMA-ETS-Presence_SIMPLE_INT-V2_0	27 Jul 2010	n/a	Status changed to Candidate by TP OMA-TP-2010-0300- INP_PRS_20_INT_ETS_for_Candidate_Approval