Enabler Test Specification (Conformance) for PoC

Candidate Version 1.0 – 16 Nov 2006

Open Mobile Alliance

OMA-ETS-PoC_CON-V1_0-20061116-C

Contents

1. Scope

This document describes in detail available test cases for Enabler PoC V1.0 (http://www.openmobilealliance.org).

The conformance test cases are split into two categories: Client and Server test cases.

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

2. References

2.1 Normative References

[IOPPROC] "OMA Interoperability Policy and Process", Version 1.3, Open Mobile Alliance™, OMA-IOP-Process-V1_3, www.openmobilealliance.org

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

[RFC2246] "The TLS Protocol; Version 1.0", T. Dierks, et al, January 1999, URL:http://www.ietf.org/rfc/rfc2246.txt

[RFC2616] "Hypertext Transfer Protocol -- HTTP/1.1", R. Fielding, June 1999, URL:http://www.ietf.org/rfc/rfc2616.txt

[RFC2617] "HTTP Authentication: Basic and Digest Access Authentication", J. Franks, et al, June 1999, URL:http://www.ietf.org/rfc/rfc2617.txt

[RFC2818] "HTTP over TLS", E. Rescorla, May 2000, URL:http://www.ietf.org/rfc/rfc2818.txt

[RFC3261] "SIP: Session Initiation Protocol", J. Rosenberg, H. Schulzrinne, G. Camarillo, A. Johnston, J. Peterson, R. Sparks, M. Handley, E. Schooler, June 2002, URL:http://www.ietf.org/rfc/rfc3261.txt

[RFC3265] "Session Initiation Protocol (SIP)-Specific Event Notification", A. B. Roach, June 2002. URL: http://www.ietf.org/rfc/rfc3265.txt

[RFC3966] "The tel URI for Telephone Numbers", H. Schulzrinne, December 2004. URL: http://www.ietf.org/rfc/rfc3966.txt

[ERELD] "Enabler Release Document for Push to Talk over Cellular Requirement", Open Mobile Alliance™, OMA-ERELD-PoC-V1_0, www.openmobilealliance.org

[OMA-PoC-RD] "Push to Talk over Cellular Requirements", Version 1.0, Open Mobile Alliance™, OMA-RD_PoC-V1_0, www.openmobilealliance.org

[OMA-PoC-AD] "Push to Talk over Cellular Architecture", Version 1.0, Open Mobile Alliance™, OMA-AD_PoC-V1_0, www.openmobilealliance.org

[OMA-PoC-CP] "Push to Talk over Cellular Control Plane", Version 1.0, Open Mobile Alliance™, OMA-CP_PoC-V1_0, www.openmobilealliance.org

[OMA-PoC-UP] "Push to Talk over Cellular User Plane", Version 1.0, Open Mobile Alliance™, OMA-UP_PoC-V1_0, www.openmobilealliance.org

[OMA-GM] "Group Management Requirements/Architecture/Specifications", Version 1.0, Open Mobile Alliance™, OMA-ERELD_XDM-V1_0, www.openmobilealliance.org

[OMA-PR] "Presence Requirements/Architecture/Specifications", Version 1.0, Open Mobile Alliance™, OMA-ERELD-Presence-V1_0, www.openmobilealliance.org

[OMA-DM] "Device Management/Architecture/Specifications", Version 1.0, Open Mobile Alliance™, OMA-ERELD-SyncML_DM-V1_1, www.openmobilealliance.org

[OMA-XDM-Core] "XML Document Management (XDM) Specification", Version 1.0, Open Mobile Alliance™, OMA-TS-XDM_Core-V1_0, www.openmobilealliance.org

[OMA-XDM-Shared] "Shared XDM Specification", Version 1.0, Open Mobile Alliance™, OMA-TS-XDM_Shared-V1_0, www.openmobilealliance.org

[OMA-PoC-XDM] "PoC XDM Specification", Version 1.0, Open Mobile Alliance™, OMA-TS-POC_XDM-V1_0, www.openmobilealliance.org

[XCAP] "The Extensible Markup Language (XML) Configuration Access protocol (XCAP)", J. Rosenberg, May 5, 2006, URL: http://www.ietf.org/internet-drafts/draft-ietf-simple-xcap-11.txt Note: Work in progress

[3GPP TS 33.222] 3GPP TS 33.222 "Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS) (Release 6)" . URL: http://www.3gpp.org/ftp/Specs/archive/33_series/33.222/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Open Mobile Alliance™. OMA-Dictionary, www.openmobilealliance.org

[3GPP TR 33.919] 3GPP TR 33.919 "3G Security; Generic Authentication Architecture (GAA); System Description (Release 6)". URL: http://www.3gpp.org/ftp/Specs/archive/33_series/33.919/

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 test sequences defined in the “Test Procedure” sections of the table shall be taken as implied “Pass Criteria”. ie. the test sequence described shall be followed by the device under test in order to pass. Where necessary, additional explicit pass criteria are included in the “Pass Criteria” sections of each test case definition.

Following is the definition of fields in the naming convention:

PoC-1.0	con	C/S	0000
Specification Release (PoC Version) number.	con- Conformance	C-Client S-Server	Test Sequence number

3.2 Definitions

1-to-1 PoC Session	A feature to establish a PoC Session with another PoC User.
1-many-1 Session	A PoC Group Session for a Pre-Arranged PoC Group in which one Participant is a Distinguished Participant and each other Participant is an Ordinary Participant.
Access List: Accept	A user is considered invitees accepted member when the invitee's PoC User Access Policy document specifies that invitations from the Inviting PoC User are to be automatically accepted (I.e., the <allow-invite> action is set to the value "accept"). Note that for calls to be automatically accepted the invitee must also have the Answer Mode setting set to Automatic, otherwise calls will be answered in manual answer mode.
Access List: Reject	A user is considered invitees Rejected member when the invitee's PoC User Access Policy document specifies that that invitations from the Inviting PoC User are to be rejected (I.e., the <allow-invite> action is set to the value "reject").
Access List: Pass	A user is considered invitees Pass member when the invitee's PoC User Access Policy document specifies that invitations from the Inviting PoC User are not to be rejected. (I.e., the <allow-invite> action is set to the value "pass"). Note that calls from an inviter with Pass will always be answered in Manual Answer mode.
Ad-Hoc PoC Group	A feature enabling a PoC User to establish a PoC Session with multiple PoC Users without first creating a PoC Group.
Aggregation Proxy	The Aggregation Proxy is the contact point for the XDM Client implemented in an UE to access XML documents stored in any XDMS. An Aggregation Proxy is configured as an HTTP reverse proxy.
AnswerMode	Defines the incoming session answering mode. The options are Manual vs. Automatic.
Application Unique ID (AUID)	A unique identifier that differentiates XCAP resources accessed by one application from XCAP resources accessed by another. [Source: XCAP]
Automatic Answer	A mode of operation where the PoC Client accepts the PoC Session invitations immediately

Mode	and plays out the media as soon as it is received without requiring the intervention of the Invited PoC User.
AutoRelease	Indicates whether a session is released when the initiator leaves the session. This is part of the Session Release Policy enforced at the PoC Server (applicable to Pre-Arranged PoC Group Sessions only).
Idempotent request	HTTP specifies that PUT and DELETE requests are idempotent. This means that, if the client performs a PUT on a document and it succeeds, it can perform the same PUT, and the resulting document will look the same. Similarly, when a client performs a DELETE, if it succeeds, a subsequent DELETE to the same URL will generate a 404; the resource no longer exists on the server since it was deleted by the previous DELETE operation. [Source: XCAP]
Incoming PoC Session Barring	Incoming PoC Session Barring is a PoC service setting for the PoC Client that conveys the PoC User's desire for the PoC service to block all incoming PoC Session requests.
Incoming Instant Personal Alert Barring	Incoming Instant Personal Alert Barring is a PoC service setting for the PoC Client that conveys the PoC User's desire for the PoC service to block all incoming Instant Personal Alerts.
Chat PoC Group	Incoming Instant Personal Alert Barring is a PoC service setting for the PoC Client that conveys the PoC User's desire for the PoC service to block all incoming Instant Personal Alerts.
Chat PoC Group Session	A PoC Session established for a Chat PoC Group.
Confirmed Indication	The Confirmed Indication is returned by the PoC Server to confirm that it and all downstream elements are ready to receive media.
Contact List	A list available to the PoC User containing the addresses of other PoC Users or PoC Groups.
Document Selector	A sequence of path segments, with each segment being separated by a "/", that identify the XML document within an XCAP root that is being selected. (Source: [XCAP])
Document URL	The HTTP URL containing the XCAP root and document selector, resulting in the selection of a specific document. (Source: [XCAP])
Global Document	A document placed under the XCAP global tree that applies to all users of that application usage.
Global Tree	A URL that represents the parent for all global documents for a particular application usage within a particular XCAP root. (Source: [XCAP])
Group	Group is a predefined set of PoC Users together with its attributes. The Group is used for easy PoC Session establishment and/or for defining PoC Session access policy. Each Group is identified by its SIP URI.
Invited PoC Client	The PoC Client who has been invited to a PoC Session.
Inviting PoC Client	The PoC Client inviting other PoC User(s) to a PoC Session.
Manual Answer Mode	A mode of operation where the PoC Client requires the PoC User to manually accept the PoC Session invitation before media is accepted and played.
Node Selector	A sequence of path segments, with each segment being separated by a "/", that identify the XML node (element or attribute) being selected within a document. (Source: [XCAP])
Node URI	The HTTP URI containing the XCAP root, document selector, path separator and node selector, resulting in the selection of a specific XML node. (Source: [XCAP])
Number of Remaining Participants	If the PoC Session has as many as or less than the specified number of Participants left, the PoC Server SHALL terminate the PoC Session. This is part of the Session Release Policy enforced at the PoC Server.
On-Demand Session	A PoC Session set-up mechanism, where all media parameters are negotiated at the same time

	as the PoC Session is set-up.
Path Separator	A single path segment equal to two tilde characters "~~" that is used to separate the document selector from the node selector within an HTTP URL. (Source: [XCAP])
PoC Address	A PoC Address identifies a PoC User. The PoC Address can be used by one PoC User to request communication with other PoC Users.
PoC Button	Hardware or software button used to request various PoC functions.
PoC Client	A PoC functional entity on the PoC User equipment that supports the PoC service.
PoC XDM Client	An XDM functional entity that supports the PoC service.
PoC XDM Client (AS)	A PoC XDM Client implemented in an Application Server
PoC XDM Client (UE)	A PoC XDM Client implemented in an User Equipment
PoC Group	A PoC Group is a predefined set of PoC Users together with its attributes.
PoC Server	The PoC Server implements the application-level network functionality for the PoC service. The PoC Server may perform the role of the Controlling PoC Function and Participating PoC Function.
PoC Session	A session established by 1-to-1 PoC, Ad-Hoc PoC Group, or Pre-Arranged PoC Group Session.
PoC User[N]	A human user (or equivalent automated test agent) interacting with the device under test and defined by unique subscription credentials, where N is an integer number (i.e. PoC User1, PoC User2, etc.). For brevity (since this is the normal case) if [N] is not specified then PoC User[1] is implied.
Pre-Arranged PoC Group	A persistent group created for a PoC Group Session.
Pre-Established Session	A signaling exchange to negotiate media parameters between the PoC Client and the home PoC Server before establishing a PoC Session.
Primary Principal	The principal who has full access rights (e.g., read, write, delete) for a given document, including the right to delegate some of these rights to other principals. (Source: [XDM RD])
Private User Identity [N]	A unique code identifying a subscription to a SIP/IP Core network service, where N is an integer number (i.e. PrivateUserIdentity1, PrivateUserIdentity2, etc.). For brevity (since this is the normal case) if [N] is not specified then PrivateUser Identity1 is implied. For example, in a 3GPP IMS compliant device this identity will be unique to the ISIM/USIM in the client device under test.
Public User Identity [N_M]	A unique code used as a public address within a SIP/IP Core network. For example, in a 3GPP IMS compliant device this identity will be a SIP URI or tel URL. A PoC User may have multiple Public User Identities. N is an integer number identifying the PoC User and M is an integer number identifying which public user identity, (e.g. PublicUserIdentity1_1, Public UserIdentity1_2, etc.). For brevity (since this is the normal case) if [N] and [M] are not specified then Public User Identity [1_1] is implied.
ReleaseLastParty	Indicates when a session is released. This is part of the Termination Policies which are enforced at the PoC Server.
Reverse Proxy	A reverse proxy is a web server system that is capable of serving web pages sourced from other web servers (AS), making these pages look like they originated at the reverse proxy. (Source: [3GPP TS 33.222])
Talk Burst	The media recording, transport, and playback that occurs from the point the PoC Client has got the permission to send a media until the permission is released.

Talk Burst Control	A control mechanism that arbitrates requests, from the PoC Clients, for the right to send media.
Talk Burst Control Protocol	A protocol for performing Talk Burst Control.
Unconfirmed Indication	The indication of readiness by the PoC Server to receive media before the PoC Server has received confirmation from downstream elements of readiness to receive media.
Unrestricted group	A Group that can be joined by any User.
User	A human using the described features through the User Equipment.
UE	The physical client terminal of the device under test.
XCAP Application Usage	Detailed information on the interaction of an application with an XCAP server. (Source: [XCAP])
XCAP Client	An HTTP client that understands how to follow the naming and validation constraints defined in this specification. (Source: [XCAP])
XCAP Root	A context that includes all of the documents across all application usages and users that are managed by a server. [Source: XCAP]
XCAP Root URI	An HTTP URI that represents the XCAP root. Although a valid URI, the XCAP Root URI does not correspond to an actual resource. [Source: XCAP]
XCAP Server	An HTTP server that understands how to follow the naming and validation constraints defined in this specification. (Source: [XCAP])
XCAP User Identifier (XUI)	The XUI is a string, valid as a path element in an HTTP URI, that is associated with each user served by the XCAP server ([Source: [XCAP]). Within the context of the OMA XDM enabler the XUI is a Public SIP URI.

3.3 Abbreviations

AD	Architecture Document
AS	Application Server
AUID	Application Unique ID
CDR	Charging Data Record
DNS	Domain Name Server
GAA	Generic Authentication architecture
HTTP	Hyper Text Transfer Protocol
IAB	Incoming Instant Personal Alert Barring
ISB	Incoming PoC Session Barring
MAO	Manual Answer Override
MIME	Multipurpose Internet Mail Extensions
OMA	Open Mobile Alliance
PoC	Push to talk over Cellular
RD	Requirements Document
SIP	Session Initiation Protocol
UE	User Equipment
URI	Universal Resource Identifier
XCAP	XML Configuration Access Protocol
XDMS	XML Document Management Server

XML	Extensible Mark-up Language
XUI	XCAP User Identifier

3.4 Testing Assumptions

3.4.1 Client Testing

For all client test cases throughout the document, the following assumptions are valid unless stated otherwise. Therefore, these assumptions shall be seen as a part of the preconditions:

General:

- The PoC Client does not have an active PoC session ongoing.
- Each PoC User [N] has a valid SIP/IP Core subscription.
- The XDM documents of PoC User [N] will be distinguished within the XDM repositories by the XCAP User Identifier of the PoC User [N]. The XCAP User Identifier of PoC User [N] will be the Public User Identifier [N] of the PoC Client as assigned to the PoC Client at registration for the PoC Service.
- The PoC Client is deregistered (see section 3.4.1)
- When the simulated SIP/IP Core corresponds to 3GPP/3GPP2 IMS the public user identity [PublicUserID1] will be supplied to the PoC Client in the P-Associated-URI header of the 200 "OK" response to the REGISTER request. This public user identity will be used by the simulated SIP/IP core as the "Authenticated Originator's PoC Address".
- All timers set to default values according to UserPlane document section 9 except where specified otherwise.
- No XDM documents exist in the users trees for each of the AUIDS listed below, for the XUI(s) used in the test cases, unless the individual test case pre-conditions specify that particular documents should exist:
  - resource-lists
  - org.openmobilealliance.group-usage-list
  - org.openmobilealliance.poc-groups
  - org.openmobilealliance.poc-rules

The simulated PoC Server executes the following policies:

- AutoRelease=True
- Number-of-Remaining-Participants = 0 (Note: This is the same as ReleaseLastParty=False.)
- Session Max Length = is disabled (i.e. session length is infinite).
- Talk Burst Inactivity Timeout = is infinite (i.e. timer is disabled).
- All sessions are to be responded to using the "Confirmed Indication", unless otherwise specified.

The simulated SIP/IP Core executes the following policies:

- SIP/IP Core re-registration timer is set to 60 minutes or greater. (Note: This will help avoid erroneous failures in test cases verifying Unconfirmed Indication.)
- SIP/IP Core authentication is disabled. As a consequence, the IPsec security associations for integrity and encryption will not be established and SigComp compression of SIP signalling will not be initiated.
- Aggregation Proxy (XDM) authentication is disabled.
- HTTP compression has been disabled, if possible, in the XDM client. If HTTP compression cannot be disabled in the client then the Test Tool will reject compressed HTTP requests using a status code of 415 "Unsupported Media Type".

Note:

1. This combination was merely chosen to reduce the amount of description needed in the test cases. It must not be understood as a real set of static configuration parameters. There are situations where this combination of policies is contradictory. These policy settings in combination with the changes specified for each test case are consistent, however.

2. Session timeouts and Talk Burst Inactivity Timeout are set very high to avoid interfering with the test case.

The PoC Client is configured with the following basic settings which shall be the default settings unless otherwise specified in the particular test case or the setting is not supported by the PoC Client:

For On-Demand Sessions:

- PoC User has Incoming PoC Session Barring disabled (IncomingPoCSessionBarring (ISB) = False)
- PoC User has Incoming Instant Personal Alert Barring disabled (IncomingInstantPersonalAlertBarring (IAB) = False)
- Access Lists (Access List: Accept, Access List: Reject, and Access List: Pass) are empty and have no entries
- PoC User Answer Mode = Manual Answer
- MAX-ADHOC-GROUP-SIZE = 4 or more

For Pre-Established Sessions:

- PoC User has Incoming PoC Session Barring disabled (IncomingPoCSessionBarring (ISB) = False)
- PoC User has Incoming Instant Personal Alert Barring (IAB) mode disabled (InstantPersonalAlertBarring (IAB) = False)
- Access Lists (Access List: Accept, Access List: Reject, and Access List: Pass) are empty and have no entries
- Poc User Answer Mode = Manual Answer
- MAX-ADHOC-GROUP-SIZE = 4 or more
- The simulated PoC Server is configured to support Pre-Established Session procedures.

3.4.1.1 Test case execution

This section provides guidance how to execute Client Conformance test cases to allow reproducibility and traceability of test case results.

Five different states are introduced to describe the client's state at the beginning of a test case:

- "Deregistered"
- "Registered"
- "In-MTCall"
- "In-MOCall"
- "Pre-established"

When executing several test cases in a sequence every test case starts again with the client in state "Deregistered". Every test case is referencing an initial state of the client in the preconditions. Appendix C provides macros (preambles and postambles) that shall be used to:

- bring a client from state "Deregistered" to the initial state mentioned in the precondition of each test case, and
- at the end of each test case to take the client to the state "Deregistered".

Note: More than one macro might be needed to bring the client from Deregistered state to the initial state required in the precondition of the test cases and also to bring the client to the state Deregistered after end of the test procedure.

Note: The macros to use are referenced in the Test Procedure in each test case in curly brackets ("{" and "}").

3.4.1.2 Test case results

When a Client is not able to pass the preamble or postamble the test case's verdict is INCONCLUSIVE. If the Client fails a pass criterion in the test case main part the verdict is FAIL.

3.4.1.3 Optional Message Handling

The PoC specification allows a PoC Client to send optional messages (e.g. SUBSCRIBE) at almost any time. In order to allow the test tool to handle these messages in a defined way, and more especially to respond correctly, macros are needed. Appendix D defines macros that can be executed when an optional message is received by the test tool.

3.4.2 Server Testing

- PoC ServerX is the server under test.
- PoC UserX is a generic term used either for a PoC client flexible enough to carry out the conformance test cases or a conformance test tool simulating a PoC client.
- The PoC Client is always registered for the PoC Service with the SIP/IP Core, unless otherwise stated in the test case.

3.5 Testing Parameters

Certain identities and protocol parameters will be dependent upon either the test implementation or the device under test. The following standard parameters have been used in this ETS with the expectation that these parameters will be substituted with actual values in the realisation of the test implementation or by means of a declaration by the company submitting the object for test.

3.5.1 XDM Parameters

Parameter Name	Default Value	Description
[XCAPRootURI1]		The XCAP Root URI of the primary XDMS in the test implementation. A DNS lookup will resolve to the address of the Aggregation Proxy in the test implementation.
[XUI1]	sip:PoC-User1@[DNHomeA]	An XCAP User Identifier used as the primary XUI for the purposes of identifying the “users” tree on the XDMS where the test documents may be accessed. XUI1 will correspond to the agreed public user identity (Public SIP URI) following GAA (or HTTP Digest) Authentication of the PoC XDM Client.
[XUI2]	sip:PoC-User2@[DNHomeA]	An XCAP User Identifier used as a secondary XUI (where required) for the purposes of identifying the “users” tree on the XDMS where the test documents may be accessed. XUI2 will correspond to the agreed public user identity (Public SIP URI) following GAA (or HTTP Digest) Authentication of a secondary PoC User of the device under test.
[DNHomeA]	networkA.com	Domain Name of the Home network for the device under test
[DNOtherB]	networkB.com	Domain Name of another PoC Service provider.
[DNOtherC]	networkC.com	Domain Name of another PoC Service provider.
[AnyValidFilename]		Any valid XDM document filename.

3.5.2 SIP Parameters

Parameter Name	Default Value	Description

[DNHomeA]	networkA.com	Domain name of home network for device under test.
[DNOtherB]	networkB.com	Domain Name of another PoC Service provider.
[DNOtherC]	networkC.com	Domain Name of another PoC Service provider.
[PublicUserID1]	sip:PoC-User1@[DNHomeA]	Public User Identity [1]. The network authenticated public user identity of the (default) PoC user of the client device under test. Where reference is made to [PublicUserID] this shall mean [PublicUserID1].
[PrivateUserID1]	PoC-User1-Private@[DNHomeA]	Private User Identity [1]. The private user identity of the default network subscription used on the client device under test. Where reference is made to [PrivateUserID] this shall mean [PrivateUserID1]. Note: For example, in the case of a 3GPP IMS compliant client device this will be the private user identity derived from the ISIM or USIM installed in the device during testing. Where the identity is derived from a USIM the value will be based upon the IMSI as defined in TS 23.003
[PublicFriendID1]	sip:PoC-Friend1@[DNHomeA]	A public User Identity for the primary target of PoC session setup attempts.
[PublicFriendID2]	sip:PoC-Friend2@[DNOtherB]	A public User Identity for the secondary target of PoC session setup attempts.
[PublicFriendID3]	sip:PoC-Friend3@[DNOtherC]	A public User Identity for the primary target of PoC session setup attempts.
[PublicFriendID4]	sip:PoC-Friend4@[DNOtherC]	A public User Identity for an additional target of PoC session setup attempts.

3.5.3 PoC Parameters

Parameter Name	**Default Value**	**Description**
[AddressPoCUser1]	Same as [PublicUserID1]	The PoC Address of the (default) PoC User of the client device under test.
[AddressPoCFriend1]	Same as [PublicFriendID1]	The PoC Address of the primary target PoC User for PoC session setup attempts.
[AddressPoCFriend2]	Same as [PublicFriendID2]	The PoC Address of an additional target PoC User for PoC session setup attempts.
[AddressPoCFriend3]	Same as [PublicFriendID3]	The PoC Address of an additional target PoC User for PoC session setup attempts.
[AddressPoCFriend4]	Same as [PublicFriendID4]	The PoC Address of an additional target PoC User for PoC session setup attempts.

4. Introduction

The purpose of this document is to provide conformance test cases for PoC Enabler Release V1.0.

Test cases testing Optional features must be executed if Optional features are implemented.

5. PoC Client - Control Plane

5.1 Originating Procedures

5.1.1 PoC service registration

5.1.1.1 PoC-1.0-con-C-0001 – Registration per 3GPP IMS (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0001
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can register to a SIP/IP Core corresponding with 3GPP IMS and uses the authenticated Public User Identity assigned to it.
Specification Reference	[OMA-PoC-CP] 6.1.1.1, 6.1.1.2 and E.4.1
SCR Reference	PoCCPSpec-COP-C-001, PoCCPSpec-COP-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0001
Preconditions	Support for 3GPP/3GPP2 IMS (Early IMS security OR Full IMS security). PoC Client is in state “Deregistered”
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC Client receives 200 OK 6. {Deregister macro} (see C.5)
Pass Criteria	2a. The SIP REGISTER request shall contain a Contact header which includes the PoC feature-tag '+g.poc.talkburst'. 2b. The SIP REGISTER request shall contain a Require header with the option-tag 'pref'. 2c. If the SIP REGISTER request contains a User-Agent header the first server-val tag shall be set to ‘PoC-client/OMA1.0’. 2d. (Full IMS security only) The SIP REGISTER request shall contain an Authorization header, with the username field, set to the value of the subscriber’s private user identity [PrivateUserID]. 2e. The SIP REGISTER request shall contain From and To header fields set to a SIP URI. 4. The SIP PUBLISH request shall contain a Request-URI set to [PublicUserID1].

5.1.1.2 PoC-1.0-con-C-0002 – Registration per 3GPP2 MMD (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0002

Test Object	PoC Client
Test Case Description	Verify that the PoC Client can register to a SIP/IP Core corresponding with 3GPP2 MMD and uses the authenticated Public User Identity assigned to it.
Specification Reference	[OMA-PoC-CP] 6.1.1.1, 6.1.1.2 and E.4.1
SCR Reference	PoCCPSpec-COP-C-001, PoCCPSpec-COP-C-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0002
Preconditions	Support for 3GPP2 MMD. PoC Client is in state “Deregistered”
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC Client receives 200 OK 6. {Deregister macro} (see C.5)
Pass Criteria	2a. The SIP REGISTER request shall contain a Contact header which includes the PoC feature-tag '+g.poc.talkburst'. 2b. The SIP REGISTER request shall contain a Require header with the option-tag 'pref'. 2c. If the SIP REGISTER request contains a User-Agent header the first server-val tag shall be set to ‘PoC-client/OMA1.0’. 2d. The SIP REGISTER request shall contain an Authorization header, with the username field, set to the value of the subscriber’s private user identity [PrivateUserID1]. 2e. The SIP REGISTER request shall contain From and To header fields set to a SIP URI. 4. The SIP PUBLISH request shall contain a Request-URI set to [PublicUserID1].

5.1.1.3 PoC-1.0-con-C-0003 – PoC Service De-registration / Remain SIP/IP Core Registered

Test Case ID	PoC-1.0-con-C-0003
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can de-register from the PoC Service while remaining registered to the SIP/IP Core.
Specification Reference	[OMA-PoC-CP] 6.1.1.3
SCR Reference	PoCCPSpec-COP-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0003
Preconditions	Support for de-registration from PoC Service while remaining registered to the SIP/IP core. Support for 3GPP/3GPP2 IMS (Early IMS security OR Full IMS security). PoC Client is in state "Deregistered"
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC User requests that PoC Client de-register from the PoC Service while remaining SIP/IP Core registered. 6. PoC Client sends SIP REGISTER request to SIP/IP Core. 7. UE receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1].
Pass Criteria	6a. The Contact header of the SIP REGISTER request does not include the PoC feature-tag '+g.poc.talkburst'. 6b. If the SIP REGISTER request contains a User-Agent header the first server-val tag shall be set to 'PoC-client/OMA1.0'. 6c. (Full IMS security only) The SIP REGISTER request shall contain an Authorization header, with the username field, set to the value of the subscriber's private user identity [PrivateUserID1]. 6d. The SIP REGISTER request shall contain From and To header fields set to the SIP URI of the public user identity to be de-registered from the PoC Service, which shall be either [PublicUserID1] or the public user identity specified by the PoC Client in step 2.

5.1.1.4 PoC-1.0-con-C-0004 – PoC Service De-registration / De-register from SIP/IP Core

Test Case ID	PoC-1.0-con-C-0004
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can de-register from the PoC Service while also de-registering from the SIP/IP Core.
Specification Reference	[OMA-PoC-CP] 6.1.1.3
SCR Reference	PoCCPSpec-COP-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0004
Preconditions	Support for de-registration from PoC Service while also de-registering from the SIP/IP core. Support for 3GPP/3GPP2 IMS (Early IMS security OR Full IMS security). PoC Client is in state “Deregistered”
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC User requests that PoC Client de-register from the PoC Service and also the SIP/IP Core. 6. PoC Client sends SIP REGISTER request to SIP/IP Core. 7. UE receives 200 OK response
Pass Criteria	6a. The SIP REGISTER request contains an Expires header with value set to zero. 6b. If the SIP REGISTER request contains a User-Agent header the first server-val tag shall be set to ‘PoC-client/OMA1.0’. 6c.(Full IMS security only) The SIP REGISTER request shall contain an Authorization header, with the username field, set to the value of the subscriber’s private user identity [PrivateUserID1]. 6d. The SIP REGISTER request shall contain From and To header fields set to the SIP URI of the public user identity to be de-registered from the PoC Service, which shall be either [PublicUserID1] or the public user identity specified by the PoC Client in step 2.

5.1.1.5 PoC-1.0-con-C-0005 – Registration per 3GPP IMS / Re-registration (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0005
Test Object	PoC Client
Test Case Description	Verify that the PoC Client performs a re-registration to the SIP/IP Core.
Specification Reference	[OMA-PoC-CP] 6.1.1.1 and 6.1.1.2
SCR Reference	PoCCPSpec-COP-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0005
Preconditions	Support for 3GPP IMS. Support for 3GPP/3GPP2 IMS (Early IMS security OR Full IMS security). PoC Client is in state “Deregistered”.
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. Test Tool determines, from the SIP REGISTER request, the requested expiration interval for the PoC service binding. 4. PoC Client receives 200 OK response with a Contact Header field whose expires parameter is set to the requested interval or 100s whichever is the smaller; and with a P-Associated-URI header containing the authenticated public user identity [PublicUserID1]. 5. PoC Client sends re-REGISTER request. 6. PoC Client receives a 200 OK 7. {Deregister macro} (see C.5)
Pass Criteria	2. The Contact header of the SIP REGISTER request includes the PoC feature-tag '+g.poc.talkburst'. 5a. The Contact header of the SIP re-REGISTER request includes the PoC feature-tag '+g.poc.talkburst'. 5b. The SIP re-REGISTER request shall contain a Require header with the option-tag 'pref'. 5c. If the SIP re-REGISTER request contains a User-Agent header the first server-val tag shall be set to ‘PoC-client/OMA1.0’. 5d. (Full IMS security only) The SIP re-REGISTER request shall contain an Authorization header, with the username field, set to the value of the subscriber’s private user identity [PrivateUserID1]. 5e. The SIP re-REGISTER request shall contain From and To header fields set to wither the authenticated public user identity [PublicUserID1] or the public user identity specified by the PoC Client in step 2.

5.1.2 PoC service settings procedure

5.1.2.1 PoC-1.0-con-C-0021 – Initiation of SIP PUBLISH request

Test Case ID	PoC-1.0-con-C-0021
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can publish the PoC service settings to the SIP/IP Core as required.
Specification Reference	[OMA-PoC-CP] 6.1.1.2 [OMA-PoC-CP] 6.1.2
SCR Reference	PoCCPSpec-CSP-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0021
Preconditions	PoC Client is in state Deregistered. Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User registers for PoC service. 2. PoC Client sends the REGISTER message. 3. PoC Client receives the "200 OK" containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends the PUBLISH. 5. PoC Client receives the "200 OK". 6. {Deregister macro} (see C.5)
Pass Criteria	4a. The Request-URI is set to the PoC Address confirmed in step 3. 4b. In the Accept-Contact header the PoC feature-tag "+g.poc.talkburst" is set along with the parameters "require" and "explicit". 4cd. The Event header is set to "poc-settings". 4de. In the message body the following PoC settings are included and set with valid values: - Answer mode setting (manual or automatic answer) - Incoming PoC Session Barring (ISB active or ISB not active) - Incoming Instant Personal Alert Barring setting (IAB active or IAB not active) - Simultaneous PoC Sessions Support setting (SSS active or SSS not active)

5.1.3 PoC Session initiation

5.1.3.1 PoC-1.0-con-C-0030 – Pre-established Session establishment (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0030
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly initiate a Pre-established session.
Specification Reference	[OMA-PoC-CP] 6.1.3.2.1

SCR Reference	PoCCPSpec-CSI-C-003, PoCCPSpec-CSI-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0030
Preconditions	PoC Client is in state “Deregistred”. Support for 3GPP/3GPP2 IMS Support for Pre-established Session establishment. Support for initiating a Pre-arranged PoC Group Session. The manufacturer of the device under test has supplied a PICS value indicating if the client is able and willing to receive media streams immediately (Boolean pc_media_streams_active_immediately)
Test Procedure	1. UE is powered on. 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC Client receives SIP 200 ‘OK’ response to SIP PUBLISH. 6. (If required) PoC User initiates establishment of a pre-established PoC session. 7. PoC Client sends SIP INVITE request. 8. PoC Client receives SIP 100 ‘Trying’ response to SIP INVITE. 9. PoC Client receives SIP 200 ‘OK’ response to SIP INVITE. 10. PoC Client sends SIP ACK request in response to SIP 200. 11. {PERelease macro} (see C.7) 12. {Deregister macro} (see C.5)
Pass Criteria	7a. The Request-URI of the INVITE request shall be the provisioned Conference-factory-URI. 7b. The INVITE request shall include a MIME SDP body containing valid IP addresses and IP port numbers for the RTP and RTCP sessions. 7c. The INVITE request shall include a MIME SDP body containing valid codec and media parameters. 7d. The INVITE request shall include a MIME SDP body indicating support for protocol Application/TBCP. 7e. The INVITE request shall in the MIME SDP body set the media to “inactive” if PICS pc_media_streams_active_immediately has been specified as false. 7f. The Accept-Contact header contains the PoC feature-tag “+g.poc.talkburst” along with the parameters “require” and “explicit”. 7g. The INVITE request shall contain a User-Agent header with the first server-val tag set to ‘PoC-client/OMA1.0’. 7h. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 7i. The SIP header, "Supported", includes the option tag 'timer'. 10. PoC Client sends SIP ACK.

5.1.3.2 PoC-1.0-con-C-0034 – Pre-established Session / Pre-arranged PoC Group Session setup / Confirmed Indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0034
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly initiate a Pre-established session and then establish a Pre-arranged PoC Group Session with Confirmed Indication signalling from the network.
Specification Reference	[OMA-PoC-CP] 6.1.3.2.3
SCR Reference	PoCCPSpec-CSI-C-008
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0034
Preconditions	Support for Pre-established Session establishment. PoC Client is in state "Pre-established". Support for initiating a Pre-arranged PoC Group Session. The PoC Group document MyPoCGroups.xml is available in the "Users" tree for PoC User 1 within the test tool. MyPoCGroups.xml contains a definition for a Pre-arranged PoC Group with conference URI "sip:PoCGroupA@[DNHomeA]"
Test Procedure	1. PoC User requests that a Pre-arranged PoC Group Session based upon PoC Group A be established. 2. PoC Client sends SIP REFER request. 3. PoC Client receives SIP 202 'Accepted' response to SIP REFER. 4. PoC Client receives SIP NOTIFY request with a MIME body containing SIP 100 'Trying'. 5. PoC Client sends SIP 200 'OK' response to SIP NOTIFY. 6. PoC Client receives SIP NOTIFY request with a MIME body containing SIP 200 'OK'. 7. PoC Client sends SIP 200 'OK' response to SIP NOTIFY. 8. PoC Client receives TBCP Connect message. 9. PoC Client sends TBCP Talk Burst Acknowledgement message. 10. PoC User requests to leave the session. 11. PoC Client sends a REFER request with the following options: a. Refer-To header set to the PoC Session Identity to leave b. add the method parameter with value BYE in the Refer-To header 12. PoC Client receives a 200 OK response. 13. { PERelease macro} (see C.7) 14. {Deregister macro} (see C.5)
Pass Criteria	2a. The Request-URI of the REFER request shall be equal to the PoC Session Identity included in the SIP 200 'OK' response received by the PoC Client in response to the INVITE request that established the Pre-established Session. 2b. The Refer-To header of the REFER request shall contain the SIP URI (PoC Group Identity) of PoC Group A and include the Session Type uri-parameter set to "prearranged".

	2c. The REFER request shall be within the SIP dialog of the Pre-established session. 9. The application dependent data sub-type field of the TBCP Talk Burst Acknowledgement shall indicate acknowledgement of the TBCP Connect message and the reason code shall be “Accepted”.

5.1.3.3 PoC-1.0-con-C-0042 – On-Demand Session / Ad-hoc PoC Group Session setup / Confirmed Indication

Test Case ID	PoC-1.0-con-C-0042
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly setup an On-Demand Ad-hoc PoC Group Session with Confirmed Indication signalling from the network.
Specification Reference	[OMA-PoC-CP] 6.1.3.3.1
SCR Reference	PoCCPSpec-CSI-C-001, PoCCPSpec-CSI-C-010, PoCCPSpec-CSI-C-011, PoCCPSpec-CSI-C-013
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0042
Preconditions	PoC Client is in state “Registered” Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User initiates an Ad-hoc PoC Group Session to PoC Friend 1 and PoC Friend 2. 2. PoC Client sends the INVITE message to the Test tool. 3. Test tool sends a “100 Trying” response to PoC Client. 4. Test tool sends a “180 Ringing” response to PoC Client. 5. Test tool sends a “200 OK” response to the PoC Client. 6. Client sends SIP ACK request in response to 200 OK. 7 { ReleaseSession macro} (see C.4) 8. {Deregister macro} (see C.5)
Pass Criteria	2a. Test tool receives the INVITE message 2b. The Accept-Contact header contains the PoC feature-tag “+g.poc.talkburst” along with the parameters “require” and “explicit”. 2c. The first server-val tag of the User-Agent header is set to ‘PoC-client/OMA1.0’. 2d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 2e. The SIP header, "Supported", includes the option tag 'timer'. 2f. The Request-URI is set to the Conference-factory-URI . 2g. The Content-Type header is set to multipart/mixed. 2h. In the message body a SDP part is included with at least the following parameters specified: - IP address and port of RTP Session - codecs and media parameter offered by the PoC Client 2i. In the message body the PoC Addresses of [POC_FRIEND1_URI] and [POC_FRIEND2_URI] are the only entries in the URI-list. The XML document is valid and conform with the schema. 6. The test tool receives an ACK request.

5.1.3.4 PoC-1.0-con-C-0043 – On-Demand Session / 1-1 PoC session setup / Confirmed Indication

Test Case ID	PoC-1.0-con-C-0043
Test Object	PoC Client

Test Case Description	Verify that the PoC Client can correctly setup an On-Demand 1-1 PoC Session with Confirmed Indication signalling from the network.
Specification Reference	[OMA-PoC-CP] 6.1.3.3.1
SCR Reference	PoCCPSpec-CSI-C-001, PoCCPSpec-CSI-C-010, PoCCPSpec-CSI-C-011, PoCCPSpec-CSI-C-013
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0043
Preconditions	PoC Client in state “Registered”. Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User initiates a 1-to-1 PoC Session to PoC Friend 1. 2. PoC Client sends the INVITE message to the Test tool. 3. Test tool sends a “100 Trying” response to PoC Client. 4. Test tool sends a “180 Ringing” response to PoC Client. 5. Test tool sends a “200 OK” response to the PoC Client. 6. Client sends SIP ACK request in response to 200 OK. 7. { ReleaseSession macro} (see C.4) 8. {Deregister macro} (see C.5)
Pass Criteria	2a. Test tool receives the INVITE message 2b. The Accept-Contact header contains the PoC feature-tag “+g.poc.talkburst” along with the parameters “require” and “explicit”. 2c. The first server-val tag of the User-Agent header is set to ‘PoC-client/OMA1.0’. 2d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 2e. The SIP header, "Supported", includes the option tag 'timer'. 2f. The Request-URI is set to the Conference-factory-URI . 2g. The Content-Type header is set to multipart/mixed. 2h. In the message body a SDP part is included with at least the following parameters specified: - IP address and port of RTP Session - codecs and media parameter offered by the PoC Client 2i. In the message body the PoC Address of [POC_FRIEND1_URI] is the only entry in the URI-list. The XML document is valid and conform with the schema. 6. The test tool receives an ACK request.

5.1.3.5 PoC-1.0-con-C-0044 – On-Demand Session / Pre-arranged PoC Group Session setup / Confirmed Indication

Test Case ID	PoC-1.0-con-C-0044
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly setup an On-Demand Pre-arranged PoC Group Session with Confirmed Indication signalling from the network.

Specification Reference	[OMA-PoC-CP] 6.1.3.3.2
SCR Reference	PoCCPSpec-CSI-C-016
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0044
Preconditions	PoC Client is in state “Registered”. Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User initiates a Pre-arranged PoC Session to PoC Group A. 2. PoC Client sends the INVITE message to the Test tool. 3. Test tool sends a “100 Trying” response to PoC Client. 4. Test tool sends a “180 Ringing” response to PoC Client. 5. Test tool sends a “200 OK” response to the PoC Client. 6. Client sends SIP ACK request in response to 200 OK. 7. { ReleaseSession macro} (see C.4) 8. {Deregister macro} (see C.5)
Pass Criteria	2a. Test tool receives the INVITE message 2b. The Accept-Contact header contains the PoC feature-tag “+g.poc.talkburst” along with the parameters “require” and “explicit”. 2c. The first server-val tag of the User-Agent header is set to ‘PoC-client/OMA1.0’. 2d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 2e. The SIP header, "Supported", includes the option tag 'timer'. 2f. The Request-URI is set to the PoC Group Identity of [POC_GROUPA_URI]. 2g. The Content-Type header is set to MIME SDP. 2h. In the message body a SDP part is included with at least the following parameters specified: - IP address and port of RTP Session - codecs and media parameter offered by the PoC Client 6. The test tool receives an ACK request.

5.1.3.6 PoC-1.0-con-C-0045 – On-Demand Session / Join Chat PoC Group Session

Test Case ID	PoC-1.0-con-C-0045
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly join an On-Demand Chat PoC Group Session.
Specification Reference	[OMA-PoC-CP] 6.1.3.3.2
SCR Reference	PoCCPSpec-CSI-C-017
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0045
Preconditions	PoC Client is in state “Registered”. Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User joins the Chat PoC Session PoC Chat Group A. 2. PoC Client sends the INVITE message to the Test tool. 3. Test tool sends a “100 Trying” response to PoC Client. 4. Test tool sends a “200 OK” response to the PoC Client. 5. Client sends SIP ACK request in response to 200 OK. 6. {ReleaseSession macro} (see C.4) 7. {Deregister macro} (see C.5)
Pass Criteria	2a. Test tool receives the INVITE message 2b. The Accept-Contact header contains the PoC feature-tag “+g.poc.talkburst” along with the parameters “require” and “explicit”. 2c. The first server-val tag of the User-Agent header is set to ‘PoC-client/OMA1.0’. 2d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 2e. The SIP header, "Supported", includes the option tag 'timer'. 2f. The Request-URI is set to the PoC Group Identity of [POC_CHATGROUPA_URI]. 2g. The Content-Type header is set to MIME SDP. 2h. In the message body a SDP part is included with at least the following parameters specified: - IP address and port of RTP Session - codecs and media parameter offered by the PoC Client 5. The test tool receives an ACK request.

5.1.3.7 PoC-1.0-con-C-0046 – On-Demand Session / Ad-hoc PoC Group Session setup / Max Ad-hoc Group size exceeded

Test Case ID	PoC-1.0-con-C-0046
Test Object	PoC Client
Test Case Description	Verify that the initiating PoC Client of an On-Demand Ad-hoc PoC Group session correctly prevents the sending of a SIP INVITE request in the situation that the number of invited PoC Users would exceed the maximum number of participants as indicated in the provisioned value of the parameter "MAX-ADHOC-GROUP-SIZE".
Specification Reference	[OMA-PoC-CP] 6.1.3.3.1
SCR Reference	PoCCPSpec-CSI-C-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0046
Preconditions	PoC Client is in state "Registered".
Test Procedure	1. PoC User tries to initiate an Ad-hoc Group session with "MAX-ADHOC-GROUP-SIZE" users in addition to himself. 2. {Deregister macro} (see C.5)
Pass Criteria	1. The PoC Client prevents the initiation of a session with "MAX-ADHOC-GROUP-SIZE"+1 users and may notify the PoC User of the reason.

5.1.3.8 PoC-1.0-con-C-0047 – On-Demand Session / Ad-hoc PoC Group Session setup / Unconfirmed Indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0047
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly establish an On-Demand Ad-hoc PoC Group Session with Unconfirmed Indication signalling from the network
Specification Reference	[OMA-PoC-CP] 6.1.3.3.1
SCR Reference	PoCCPSpec-CSI-C-011, PoCCPSpec-CSI-C-014
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0047
Preconditions	Support for handling Unconfirmed Indication signalling. PoC Client is in state "Registered". Support for 3GPP/3GPP2 IMS
Test Procedure	1. PoC User initiates an Ad-hoc PoC Group Session to PoC Friend 1 and PoC Friend 2. 2. PoC Client sends the INVITE message to the Test tool. 3. Test tool sends a "100 Trying" response to PoC Client 4. Test tool sends a "180 Ringing" response to PoC Client 5. Test tool sends a "200 OK" response to the PoC Client in which the P-answer-State header is set to "unconfirmed". 6. Client sends SIP ACK request in response to 200 OK.

	7. {ReleaseSession macro} (see C.4) 8. {Deregister macro} (see C.5)
Pass Criteria	2a. Test tool receives the INVITE message 2b. The Accept-Contact header contains the PoC feature-tag "+g.poc.talkburst" along with the parameters "require" and "explicit". 2c. The first server-val tag of the User-Agent header is set to 'PoC-client/OMA1.0'. 2d. The PoC feature-tag "+g.poc.talkburst" is included in the Contact header. 2e. The SIP header, "Supported", includes the option tag 'timer'. 2f. The Request-URI is set to the Conference-factory-URI . 2g. The Content-Type header is set to multipart/mixed. 2h. In the message body a SDP part is included with at least the following parameters specified: - IP address and port of RTP Session - codecs and media parameter offered by the PoC Client 2i. In the message body the PoC Addresses of [PublicFriendID1] and [PublicFriendID2] are the only entries in the URI-list. The XML document is valid and conform with the schema. 6. The test tool receives an ACK request.

5.1.4 PoC Session unrelated operations

5.1.4.1 PoC-1.0-con-C-0101 – On-Demand Session / Add PoC Users / Single PoC User / Ad-hoc PoC Group Session

Test Case ID	PoC-1.0-con-C-0101
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly add one PoC User to an On-Demand Ad-hoc PoC Group Session.
Specification Reference	[OMA-PoC-CP] 6.1.7
SCR Reference	PoCCPSpec-CUO-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0101
Preconditions	PoC Client in state "Registered". The SIP URIs of PoC Friend 1, PoC Friend 2 and PoC Friend 3 are stored in the contacts list of the device under test.
Test Procedure	1. PoC User initiates establishment of an On-Demand Ad-hoc PoC Group Session to PoC Friend 1 and PoC Friend 2. 2. PoC Client sends SIP INVITE request. 3. PoC Client receives SIP 100 'Trying' response to SIP INVITE. . 4. PoC Client receives SIP 200 'OK' response to SIP INVITE. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client.

	5. PoC Client sends SIP ACK request in response to SIP 200 OK. 6. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 7. PoC Client provides Talk Burst granted notification to PoC User. 8. PoC User requests that PoC Friend 3 be added to the PoC Session. 9. PoC Client sends SIP REFER request. 9. {ReleaseSession macro} (see C.4) 10. {Deregister macro} (see C.5)
Pass Criteria	2. The Request-URI of the SIP INVITE request shall be the provisioned conference factory URI. 9a. The REFER request shall include a Refer-To header containing [AddressPoCFriend3] the PoC Address of PoC Friend 3. 9b. The Request-URI of the SIP REFER request shall be identical to the PoC Session Identity sent to the PoC Client in the SIP 200 response at step 4. 9c. The Call-ID of the SIP REFER request shall be identical to the Call-ID in the INVITE request at step 2.

5.1.4.2 PoC-1.0-con-C-0103 – On-Demand Session / Add PoC Users / Multiple PoC Users / 1-1 PoC Session / Max Ad-hoc Group size exceeded

Test Case ID	PoC-1.0-con-C-0103
Test Object	PoC Client
Test Case Description	Verify that the initiating PoC Client of an on-going On-Demand 1-1 PoC session, where the PoC User requests the adding of multiple PoC users to the session, correctly prevents the sending of a SIP REFER request in the situation that the number of additionally invited PoC Users would exceed the maximum number of participants as indicated in the provisioned value of the parameter "MAX-ADHOC-GROUP-SIZE".
Specification Reference	[OMA-PoC-CP] 6.1.7
SCR Reference	PoCCPSpec-CUO-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0103
Preconditions	PoC Client in state "Registered". PoC Client supports adding two (or more) PoC Users to a PoC Session in a single SIP request [draft-multiple-refer]. A number, larger than MAX-ADHOC-GROUP-SIZE, of SIP URIs are stored in the contact list of the device under test The provisioned value of the parameter "MAX-ADHOC-GROUP-SIZE" is 4.
Test Procedure	1. PoC User initiates establishment of an On-Demand 1-1 PoC session to PoC Friend 1. 2. PoC Client sends SIP INVITE request. 3. PoC Client receives SIP 100 'Trying' response to SIP INVITE. .

	4. PoC Client receives SIP 200 'OK' response to SIP INVITE. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 5. PoC Client sends SIP ACK request in response to SIP 200 OK. 6. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 7. PoC Client provides Talk Burst granted notification to PoC User. 8. PoC User requests that a number of contacts should be added to the PoC session, so the total number of session participants exceed the provisioned value of MAX-ADHOC-GROUP-SIZE. 9. The PoC Client does not send a SIP REFER request and the PoC Client may notify the PoC User that the maximum group size would be exceeded. 10. PoC User requests that a number of contacts should be added to the PoC session, so the total number of participants does NOT exceed the provisioned value of MAX-ADHOC-GROUP-SIZE. 11. PoC Client sends SIP REFER request. 12. {ReleaseSession macro} (see C.4) 13. {Deregister macro} (see C.5)
Pass Criteria	2a. The Request-URI of the SIP INVITE request shall be the provisioned conference factory URI. 2b. The INVITE request shall include a MIME resource list body part syntactically compliant to [draft-URI-List] and containing a URI list entry with the Public User Identity for PoC Friend 1 [PublicFriendID1]. 2c. The INVITE request shall include a Content-Type header with multipart/mixed. 9. PoC Client does not send SIP REFER request. 11a. The Request-URI of the SIP REFER request shall be identical to the PoC Session Identity sent to the PoC Client in the SIP 200 response at step 4. 11b. The Call-ID of the SIP REFER request shall be identical to the Call-ID in the INVITE request at step 2. 11c. The Refer-To header of the REFER request shall contain a pointer to a URI list in a MIME resource list body part. 11d. The REFER request shall include a MIME resource list body part syntactically compliant to [XCAP_List] and containing URI list entries [PublicFriendID2] and [PublicFriendID3]. 11e. The REFER request shall include a Require header containing the option tag 'norefersub'.

5.1.4.3 PoC-1.0-con-C-0111 – On-Demand Session / Cancel a PoC Session

Test Case ID	PoC-1.0-con-C-0111
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly request cancellation of an On-Demand PoC Session initiation.
Specification Reference	[OMA-PoC-CP] 6.1.11.1 [RFC 3261] 15
SCR Reference	PoCCPSpec-CUO-C-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0111
Preconditions	PoC Client is registered for PoC service with SIP/IP core. PoC Friend 1 is registered for PoC service with SIP/IP core and is configured for manual answer.
Test Procedure	1. PoC User initiates establishment of an On-Demand 1-1 PoC session to PoC Friend 1. 2. PoC Client sends SIP INVITE request. 3. PoC Client receives SIP 100 'Trying' response to SIP INVITE. 4. PoC Client receives SIP 180 'Ringing' response to SIP INVITE. 5. PoC User requests that the setup attempt be cancelled. 6. PoC Client sends SIP CANCEL request. 7. PoC Client receives SIP 200 'OK' response to SIP CANCEL. 8. PoC Client receives SIP 487 'Request Terminated' response to SIP INVITE. 9. PoC Client sends SIP ACK request in response to SIP 487.
Pass Criteria	6. The Request-URI of the CANCEL request shall be identical to that in the INVITE request sent at step 2

5.1.4.4 PoC-1.0-con-C-0112 – On-Demand Session / Late Cancel of a PoC Session

Test Case ID	PoC-1.0-con-C-0112
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can correctly request cancellation of an On-Demand PoC Session initiation and handle network responses indicating that a remote PoC Server has accepted the invitation while the cancel was in progress.
Specification Reference	[OMA-PoC-CP] 6.1.11.1 [RFC 3261] 15
SCR Reference	PoCCPSpec-CUO-C-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0112
Preconditions	PoC Client is registered for PoC service with SIP/IP core. PoC Friend 1 is registered for PoC service with SIP/IP core and is configured for manual answer.
Test Procedure	1. PoC User initiates establishment of an On-Demand 1-1 PoC session to PoC Friend 1. 2. PoC Client sends SIP INVITE request. 3. PoC Client receives SIP 100 'Trying' response to SIP INVITE. 4. PoC Client receives SIP 180 'Ringing' response to SIP INVITE. 5. PoC User requests that the setup attempt be cancelled. 6. PoC Client sends SIP CANCEL request. 7. PoC Client receives SIP 200 'OK' response to SIP INVITE. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 8. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 9. PoC Client provides Talk Burst granted notification to PoC User. (optional) 10. PoC User requests to leave the PoC session. (optional) 11. PoC Client sends SIP BYE request. 12. PoC Client receives SIP 200 'OK' response to SIP BYE.
Pass Criteria	6. The Request-URI of the CANCEL request shall be identical to that in the INVITE request sent at step 2 11. The Call-ID of the BYE request is identical to that in the INVITE request at step 2.

5.2 Termination Procedures

5.2.1 Receiving PoC Session invitation

5.2.1.1.1 PoC-1.0-con-C-0151 – Automatic Answer Mode / Auto Answer Mode Set in PoC Client (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0151
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when set to Auto Answer mode and receiving a SIP INVITE containing the Answer-Mode header set to “Auto” will correctly respond to the INVITE and interact with the User Plane as specified.
Specification Reference	[OMA-PoC-CP] 6.2.1.2
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-003
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0151
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session. Support for Automatic Answer mode. PoC Client is set to Auto Answer Mode.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to “PoC User1”. 2. The Test tool sends an INVITE message to the PoC Client containing the Answer-Mode header set to “Auto” and at least one of the supported codecs offered. 3. PoC Client sends a SIP 200 ‘OK’ response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 200 “OK” response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. Session-Expires header contains refresher parameter set to 'uas'. 3e. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 3f. The message includes a MIME SDP body as a SDP answer containing: - The IP address and port number at the PoC Client for the RTP Session. - The codec(s) and Media Parameters acceptable by the PoC Client for the PoC Service selected from those in the SDP offer contained in the incoming SIP INVITE request. - Talk Burst Control Protocol(s) and Talk Burst parameters selected from those in the SDP offer contained in the SIP INVITE request. - The port number(s) to be used for the Talk Burst Control Protocol(s).

5.2.1.1.2 PoC-1.0-con-C-0152 – Automatic Answer Mode / Manual Answer Mode Set in PoC Client (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0152
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when set to Manual Answer mode and receiving a SIP INVITE which contains the Answer-Mode header set to "Auto" will correctly follow the procedures for manual answer. Note: This test case tests unexpected condition handling by the Client. This combination of PoC Service setting and Answer-Mode header is not permitted according to requirements placed upon the PoC Server.
Specification Reference	[OMA-PoC-CP] 6.2.1.3
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-004
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0152
Preconditions	Support for 3GPP/3GPP2 IMSSupport for Manual Answer mode. The Answer Mode PoC Service Setting of the PoC Client is set to manual-answer.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to PoC User1. 2. The Test tool sends an INVITE message to PoC Client containing the Answer-Mode header set to "Auto" and at least one of the supported codec by the Client is offered. 3. The PoC Client sends a SIP 180 'Ringing' response to the Test tool. 4. The "PoC User1" accepts the PoC Session Invitation. 5. The PoC Client sends a SIP 200 'OK' response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 180 'Ringing' response message. 3b. The first server-val tag of the Server header is set to 'PoC-client/OMA1.0'. 3c. Require header contains the option tag 'timer'. 3d. The PoC feature-tag "+g.poc.talkburst" is included in the Contact header. 5a. The Test tool receives a SIP 200 "OK" response message. 5b. The first server-val tag of the Server header is set to 'PoC-client/OMA1.0'. 5c. Require header contains the option tag 'timer'. 5d. Session-Expires header contains refresher parameter set to 'uas'. 5e. The PoC feature-tag "+g.poc.talkburst" is included in the Contact header. 5f. The message includes a MIME SDP body as a SDP answer containing: - The IP address and port number at the PoC Client for the RTP Session. - The codec(s) and Media Parameters acceptable by the PoC Client for the PoC Service selected from those in the SDP offer contained in the incoming SIP INVITE request. - Talk Burst Control Protocol(s) and Talk Burst parameters selected

	from those in the SDP offer contained in the SIP INVITE request. - The port number(s) to be used for the Talk Burst Control Protocol(s).

5.2.1.1.3 PoC-1.0-con-C-0153 – Automatic Answer Mode / Unacceptable media parameter(s) (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0153
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when receiving a SIP INVITE which contains the Answer-Mode header set to "Auto", but with media parameters unacceptable to the receiving PoC Client, will correctly reject the request with a SIP 488 "Not Acceptable Here" response.
Specification Reference	[OMA-PoC-CP] 6.2.1.2
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-003
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0153
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to "PoC User1". 2. The Test tool sends an INVITE message to the PoC Client containing the Answer-Mode header set to "Auto" and all media parameters not acceptable by the PoC Client. 3. PoC Client sends a SIP 488 'Not Acceptable Here' response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 488 'Not Acceptable Here' response message. 3b. The first server-val tag of the Server header is set to 'PoC-client/OMA1.0'. 3c. Require header contains the option tag 'timer'. 3d. The PoC feature-tag "+g.poc.talkburst" is included in the Contact header.

5.2.1.1.4 PoC-1.0-con-C-0154 – Manual Answer Mode (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0154
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when receiving a SIP INVITE, which contains the Answer-Mode header set to “Manual;Require”, will correctly follow the procedures for manual answer.
Specification Reference	[OMA-PoC-CP] 6.2.1.3
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-004
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0154
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to PoC User1. 2. The Test tool sends an INVITE message to PoC Client containing the Answer-Mode header set to “Manual;Require” and at least one of the supported codec by the Client is offered. 3. The PoC Client sends a SIP 180 'Ringing' response to the Test tool. 4. The “PoC User1” accepts the PoC Session Invitation. 5. The PoC Client sends a SIP 200 ‘OK’ response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 180 ‘Ringing’ response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 5a. The Test tool receives a SIP 200 “OK” response message. 5b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 5c. Require header contains the option tag 'timer'. 5d. Session-Expires header contains refresher parameter set to 'uas'. 5e. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 5f. The message includes a MIME SDP body as a SDP answer containing: - The IP address and port number at the PoC Client for the RTP Session. - The codec(s) and Media Parameters acceptable by the PoC Client for the PoC Service selected from those in the SDP offer contained in the incoming SIP INVITE request. - Talk Burst Control Protocol(s) and Talk Burst parameters selected from those in the SDP offer contained in the SIP INVITE request. - The port number(s) to be used for the Talk Burst Control Protocol(s).

5.2.1.1.5 PoC-1.0-con-C-0155 – Manual Answer Mode / PoC User rejects invitation (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0155
Test Object	PoC Client
Test Case Description	Verify that the PoC Client, when receiving a SIP INVITE which contains the Answer-Mode header set to "Manual;Require" and if the receiving PoC User declines the PoC Session invitation, will correctly send a SIP 480 "Temporarily Unavailable" response towards the PoC Server.
Specification Reference	[OMA-PoC-CP] 6.2.1.3
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-004
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0155
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client is registered for PoC service at the SIP/Core. PoC Client does not have any active session.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to PoC User1. 2. The Test tool sends an INVITE message to PoC Client containing the Answer-Mode header set to "Manual;Require" and at least one of the supported codec by the Client is offered. 3. The PoC Client sends a SIP 180 'Ringing' response to the Test tool. 4. The "PoC User1" declines the PoC session invitation. 5. The PoC Client sends a SIP 480 'Temporarily Unavailable' response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 180 'Ringing' response message. 3b. The first server-val tag of the Server header is set to 'PoC-client/OMA1.0'. 3c. Require header contains the option tag 'timer'. 3d. The PoC feature-tag "+g.poc.talkburst" is included in the Contact header. 5a. The Test tool receives a SIP 480 'Temporarily Unavailable' response message. 5b. The first server-val tag of the Server header is set to 'PoC-client/OMA1.0'. 5c. Require header contains the option tag 'timer'. 5d. If Contact header is included in the SIP 480 'Temporarily Unavailable' response, then the PoC feature-tag "+g.poc.talkburst" is included in the Contact header.

5.2.1.1.6 PoC-1.0-con-C-0156 – Manual Answer Mode / Unanswered (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0156
Test Object	PoC Client
Test Case Description	Verify that the PoC Client, when receiving a SIP INVITE which contains the Answer-Mode header set to “Manual;Require” and if the receiving PoC User does not respond and the PoC Session invitation times out, will correctly send a SIP 408 “Request timeout” response towards the PoC Server.
Specification Reference	[OMA-PoC-CP] 6.2.1.3
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-004
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0156
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to PoC User1. 2. The Test tool sends an INVITE message to PoC Client containing the Answer-Mode header set to “Manual;Require” and at least one of the supported codec by the Client is offered. 3. The PoC Client sends a SIP 180 'Ringing' response to the Test tool. 4. The PoC Client sends a SIP 408 ‘Request Timeout’ response to the Test tool when the invitation times out.
Pass Criteria	3a. The Test tool receives a SIP 180 ‘Ringing’ response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 5a. The Test tool receives a SIP 408 ‘Request Timeout’ response message. 5b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 5c. Require header contains the option tag 'timer'. 5d. If Contact header is included in the SIP 408 ‘Request Timeout’response, then the PoC feature-tag “+g.poc.talkburst” is included in the Contact header.

5.2.1.1.7 PoC-1.0-con-C-0157 – Manual Answer Mode / Unacceptable media parameter(s) (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0157
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when receiving a SIP INVITE which contains the Answer-Mode header set to “Manual;Require”, but with media parameters unacceptable to the receiving PoC Client, will correctly reject the request with a SIP 488 “Not Acceptable Here” response.
Specification Reference	[OMA-PoC-CP] 6.2.1.2
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-002, PoCCPSpec-CTP-C-004
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0157
Preconditions	Support for 3GPP/3GPP2 IMS. PoC Client does not have any active session. There is at least one media parameter which is unacceptable to the PoC Client.
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to “PoC User1”. 2. The Test tool sends an INVITE message to the PoC Client containing the Answer-Mode header set to “Manual;Require” and all media parameters not acceptable by the PoC Client. 3. PoC Client sends a SIP 488 ‘Not Acceptable Here’ response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 488 ‘Not Acceptable Here’ response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. If Contact header is included in the SIP 488 ‘Not Acceptable Here’ response, then the PoC feature-tag “+g.poc.talkburst” is included in the Contact header.

5.2.1.1.8 PoC-1.0-con-C-0158 – Manual Answer Override / MAO supported / Manual Answer Mode Set in PoC Client (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0158
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when set to Manual Answer mode and receiving a SIP INVITE containing the Priv-Answer-Mode header set to “Auto” will correctly respond to the INVITE and interact with the User Plane as specified.
Specification Reference	[OMA-PoC-CP] 6.2.1.4
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-005
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0158

Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session. Support for Manual Answer Override. Support for Manual Answer mode. PoC Client configured to Manual Answer mode
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to “PoC User1”. 2. The Test tool sends an INVITE message to the PoC Client containing the Priv-Answer-Mode header set to “Auto” and at least one of the supported codecs offered. 3. PoC Client sends a SIP 200 ‘OK’ response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 200 “OK” response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. Session-Expires header contains refresher parameter set to 'uas'. 3e. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 3f. The message includes a MIME SDP body as a SDP answer containing: - The IP address and port number at the PoC Client for the RTP Session. - The codec(s) and Media Parameters acceptable by the PoC Client for the PoC Service selected from those in the SDP offer contained in the incoming SIP INVITE request. - Talk Burst Control Protocol(s) and Talk Burst parameters selected from those in the SDP offer contained in the SIP INVITE request. - The port number(s) to be used for the Talk Burst Control Protocol(s).

5.2.1.1.9 PoC-1.0-con-C-0159 – Manual Answer Override / MAO supported / Automatic Answer Mode Set in PoC Client (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0159
Test Object	PoC Client
Test Case Description	Verify that the PoC Client when set to Automatic Answer mode and receiving a SIP INVITE containing the Priv-Answer-Mode header set to “Auto” will correctly respond to the INVITE and interact with the User Plane as specified.
Specification Reference	[OMA-PoC-CP] 6.2.1.4
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-005
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0159
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client does not have any active session.

	Support for Automatic Answer mode. PoC Client configured to Automatic Answer mode
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to “PoC User1”. 2. The Test tool sends an INVITE message to the PoC Client containing the Priv-Answer-Mode header set to “Auto” and at least one of the supported codecs offered. 3. PoC Client sends a SIP 200 ‘OK’ response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 200 “OK” response message. 3b. The first server-val tag of the Server header is set to ‘PoC-client/OMA1.0’. 3c. Require header contains the option tag 'timer'. 3d. Session-Expires header contains refresher parameter set to 'uas'. 3e. The PoC feature-tag “+g.poc.talkburst” is included in the Contact header. 3f. The message includes a MIME SDP body as a SDP answer containing: - The IP address and port number at the PoC Client for the RTP Session. - The codec(s) and Media Parameters acceptable by the PoC Client for the PoC Service selected from those in the SDP offer contained in the incoming SIP INVITE request. - Talk Burst Control Protocol(s) and Talk Burst parameters selected from those in the SDP offer contained in the SIP INVITE request. - The port number(s) to be used for the Talk Burst Control Protocol(s).

5.2.1.1.10 PoC-1.0-con-C-0160 – Manual Answer Override / MAO not supported / Manual Answer Mode Set in PoC Client (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0160
Test Object	PoC Client
Test Case Description	Verify that the PoC Client, which does not support Manual Answer Override, when set to Manual Answer mode and receiving a SIP INVITE containing the Priv-Answer-Mode header set to “Auto” will correctly respond to the INVITE and interact with the User Plane according to Control Plane, section 6.2 PoC Client termination procedures.
Specification Reference	[OMA-PoC-CP] 6.2.1.14
SCR Reference	PoCCPSpec-CTP-C-001, PoCCPSpec-CTP-C-005
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0160
Preconditions	Support for 3GPP/3GPP2 IMS PoC Client is registered for PoC service at the SIP/Core. PoC Client does not have any active session. PoC Client does not support Manual Answer Override. Support for Manual Answer mode.

	PoC Client configured to Manual Answer mode
Test Procedure	1. The Test tool initiates a 1-to-1 PoC Session to PoC User1. 2. The Test tool sends an INVITE message to PoC Client containing the Priv-Answer-Mode header set to "Auto" and at least one of the supported codec by the Client is offered. 3. The PoC Client sends a SIP 180 403 'Forbidden' response to the Test tool.
Pass Criteria	3a. The Test tool receives a SIP 180 403 'Forbidden' response message.

6. Client Test Cases – User Plane

6.1 Transport

6.1.1 PoC-1.0-con-C-0304 – Talk burst control protocol message composition (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0304
Test Object	PoC Client
Test Case Description	Verify that the PoC Client sends RTCP compound packets containing only the mandatory items in RTCP
Specification Reference	[OMA-PoC-UP] 5.4
SCR Reference	PoC_UserPlaneV1-UTR-C-006
Tool	PoC Conformance Test Tool
Test code	Validated test code for test case PoC-1.0-con-C-0304
Preconditions	PoC Client supports quality feedback PoC Client support only mandatory parts of RTCP
Test Procedure	1. PoC User initiates PoC On-demand session by pressing PoC button 2. PoC Client sends SIP INVITE 3. PoC Client receives Talk Burst Granted 4. PoC Client is sending RTP media packets 5. PoC User releases PoC button 6. PoC Client sends TBCP Talk Burst Release message 7. PoC Client compiles a sender report packet and sends the RTCP SR compound packet 8. PoC Client receives RTCP RR compound packet 9. PoC Client receives Talk Burst Taken message 10. PoC Client receives RTP media packet 11. PoC Client receives Talk Burst Idle message and sends Talk Burst Idle notification to PoC User 12. PoC Client receives a RTCP SR compound packet 13. PoC Client compiles a receiver report packet and sends the RTCP RR compound packet.
Pass Criteria	2. PoC Client has PoC Session established 3. PoC User receives Right to Speak indication 6. TBCP Talk Burst Release messages is sent as RTCP APP packet 7. Compound message is sent according to [RFC3550]. The SR packet includes 3 sections like header, sender information and zero or more reception report blocks, according to [RFC3550]. The SDES item includes the header and the mandatory CNAME item according to [RFC3550] 13. Compound message is sent according to [RFC3550]. The RR packet includes a header section and zero or more reception report blocks, according to [RFC3550]. The SDES item includes the header according

	to [RFC3550]

6.1.2 PoC-1.0-con-C-0305 – RTCP APP packet transmission (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0305
Test Object	PoC Client
Test Case Description	In a PoC session initiated by the client, verify that the PoC Client nominates identical port numbers for RTCP APP (TBCP) packets and RTCP packets
Specification Reference	[OMA-PoC-UP] 5.4 [OMA-PoC-CP] 6.1.3.3.1
SCR Reference	PoC_UserPlaneV1-UTR-C-007
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	No PoC session is active.
Test Procedure	1. The PoC User initiates an on-demand 1-1 session, using a SIP INVITE REQUEST message. 2. The test tool analyses the content of the SIP INVITE message received from the client and checks the IP addresses and port numbers declared in the SDP offer portion of the message.
Pass Criteria	2. The IP addresses and port numbers declared for TBCP (RTCP APP) are the same as those declared for RTCP communication.

6.1.3 PoC-1.0-con-C-0306 – Use of RTCP for Talk burst control (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0306
Test Object	PoC Client
Test Case Description	Verify that in a basic exchange of TBCP messages, the PoC client sends the three main TBCP messages as simple RTCP Packets, (that is, it does not use compound packets)
Specification Reference	[OMA-PoC-UP] 5.4.
SCR Reference	PoC_UserPlaneV1-UTR-C-008
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. The Test Tool prompts the PoC User to request permission to talk, causing the PoC Client to send a TB_Request message. 2. The test tool issues a TB_Granted message, and the client enters the state U: has permission. 3. After a pause of approximately 1 second (to ensure the client is at the expected state U: has permission) the test tool issues a TB_Revoke

	message, causing the client to enter the state U: pending TB_Revoke. 4. Test Tool prompts PoC User to release the button, and the Client sends a TB_Release message, entering the state U: pending TB_Release. 5. The test tool sends a TB_Taken message, requiring acknowledgement. 6. PoC Client sends a TB_Ack message. 7. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	Each of the TBCP messages sent by the client at steps 1, 4 and 6 is sent as a simple RTCP packet and not as a compound packet.

6.1.4 PoC-1.0-con-C-0307 – Talk burst control protocol message scheduling (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0307
Test Object	PoC Client
Test Case Description	Verify that the PoC Client RTCP packets and TBCP messages are held (and not sent) until after a talk burst is concluded.
Specification Reference	[OMA-PoC-UP] PoC UP 5.4, [RFC768], [RFC3550]
SCR Reference	PoC_UserPlaneV1-UTR-C-010
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0307
Preconditions	PoC Client has ongoing PoC session PoC Client supports quality feedback (optional) PoC Server does not support queueing.
Test Procedure	1. PoC User presses PoC button and releases it after at least 30 seconds. 2. PoC Client stops sending RTP media and sends TBCP Talk Burst Release message 3. PoC Client receives Talk Burst Taken message 4. PoC Client starts receiving RTP media 5. PoC User attempts to request right to speak 6. PoC Client receives TBCP Talk Burst idle
Pass Criteria	1. PoC Client only sends RTP media 2. After sending the first RTCP or TBCP packet no RTP packet is sent. 4. No TBCP or RTCP packets are received from the PoC Client. 5. PoC Client does not send TBCP Talk Burst request message while Talk Burst is ongoing

6.1.5 PoC-1.0-con-C-0308 – Session release / no BYE message (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0308
Test Object	PoC Client

Test Case Description	Verify that the PoC Client leaves a PoC session without sending RTCP "Bye".
Specification Reference	[OMA-PoC-UP] 5.4
SCR Reference	PoC_UserPlaneV1-UTR-C-012
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	No PoC session is active.
Test Procedure	1. A PoC session is initiated by the test tool, and is accepted by the client using the appropriate signalling protocols. 2. The Test Tool prompts the PoC User to request permission to talk, causing the PoC Client to send a TB_Request message and enter the state U: pending TB_request. 3. The test tool issues a TB_Granted messages, and the client enters the state U: has permission. 4. After a pause of approximately 1 second (to ensure the client is at the expected state U: has permission) the test tool issues a TB_Revoke message, causing the client to enter the state U: pending TB_Revoke. 5. The Test Tool prompts the PoC User to release the talk button, causing the Client to send a TB_Release message. 6. The Test Tool sends a TB_Disconnect message. 7. PoC Client sends a TB_Ack message and releases the session.
Pass Criteria	6-7. Only a TB_Ack is received, and no RTCP “Bye” is detected.

6.2 Talk Burst Control

6.2.1 PoC Session Control – basic

6.2.1.1 PoC-1.0-con-C-0351 – Basic Operation STD / Session Initiation / With TB granted

Test Case ID	PoC-1.0-con-C-0351
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transition directly to the 'U: has permission' state within the "PoC Client state transition diagram for basic operation". Transition(s) tested: 'Start-stop' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.1.1, 6.2.5.4.1
SCR Reference	PoC_UserPlaneV1-UTB-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0351
Preconditions	PoC Client is registered for PoC service with SIP/IP core.
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets
Pass Criteria	4. RTP Media packet received from PoC Client

6.2.1.2 PoC-1.0-con-C-0352 – Basic Operation STD / Talk Burst Release / Talk Burst Request

Test Case ID	PoC-1.0-con-C-0352
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for talk burst release and talk burst request within the "PoC Client state transition diagram for basic operation". Transition(s) tested: 'U: has permission' -> 'U: pending TB_Release' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.4, 6.2.5.3.1, 6.2.5.4.2, 6.2.5.5.3 – 6.2.5.5.5
SCR Reference	PoC_UserPlaneV1-UTB-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0352
Preconditions	PoC Client is registered for PoC service with SIP/IP core
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC User releases permission to speak. 6. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state. 7. PoC Client receives 'TB_Idle' message after approx. 2 seconds and enters 'U: has no permission' state. 8. PoC User requests permission to speak. 9. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 10. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets. 11. PoC User releases permission to speak. 12. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state. 13. PoC Client receives 'TB_Taken' message (acknowledgement expected) after approx. 1 second and enters 'U: has no permission' state. 14. PoC Client sends a TBCP Talk Burst Acknowledgement message 15. PoC User requests permission to speak. 16. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 17. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets. 18. PoC User releases permission to speak. 19. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state.

	20. PoC Client receives RTP media packet after approx. 3 seconds and enters 'U: has no permission' state. 21. PoC User requests permission to speak. 22. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	4. RTP Media packet received from PoC Client 6. TB_Release received from PoC Client (Includes sequence number of last RTP Media packet or sequence number ignore field set to 1) 7a. No media packets received from PoC Client for approx. 2 seconds 7b. Talk burst idle notification provided to PoC User 9. TB_Request received from POC Client 10a. RTP Media packet received from PoC Client 10b. Talk burst granted notification provided to PoC User 12. TB_Release received from PoC Client (Includes sequence number of last RTP Media packet or sequence number ignore field set to 1) 13a. No media packets received from PoC Client for approx. 2 seconds 13b. Talk burst taken notification provided to PoC User 14. TBCP Talk Burst Acknowledgement message received from PoC Client 16. TB_Request received from POC Client 17. RTP Media packet received from PoC Client 19. TB_Release received from PoC Client (Includes sequence number of last RTP Media packet or sequence number ignore field set to 1) 20a. No media packets received from PoC Client for approx. 2 seconds 20b. PoC Client renders RTP media packet to PoC User 22. TB_Request received from POC Client

6.2.1.3 PoC-1.0-con-C-0353 – Basic Operation STD / Talk Burst Revoke / Talk Burst Release / Talk Burst Request

Test Case ID	PoC-1.0-con-C-0353
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for talk burst revoke, followed by talk burst release (initiated by the PoC User) and talk burst request within the "PoC Client state transition diagram for basic operation". Transition(s) tested: 'U: has permission' -> 'U: pending TB_Revoke' -> 'U: pending TB_Release' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.4, 6.2.5.3.1, 6.2.5.4.2, 6.2.5.4.3, 6.2.5.5.3, 6.2.5.6.5
SCR Reference	PoC_UserPlaneV1-UTB-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0353
Preconditions	PoC Client is registered for PoC service with SIP/IP core
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC Client receives TB_Revoke message and enters 'U: pending TB_Revoke' state. 6. PoC Client continues to send media packets. 7. PoC User releases permission to speak. 8. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state. 9. After approx. 2 seconds PoC Client receives 'TB_Idle' message and enters 'U: has no permission' state. 10. PoC User requests permission to speak. 11. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	4. RTP Media packet received from PoC Client 5. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 6. At least 3 media packets are sent by PoC Client after Talk Burst Revoke indication given to the PoC User. 8. TB_Release message received from PoC Client includes the SSRC of the PoC Client and includes the sequence number of last RTP Media packet or the sequence number ignore field set to 1. 9a. No media packets received from PoC Client for approx. 2 seconds 9b. Talk burst idle notification provided to PoC User 11. TB_Request received from POC Client

6.2.1.4 PoC-1.0-con-C-0354 – Basic Operation STD / Talk Burst Revoke / Talk Burst Request

Test Case ID	PoC-1.0-con-C-0354
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for talk burst revoke and talk burst request, without talk burst release by the PoC User, within the "PoC Client state transition diagram for basic operation". Transition(s) tested: 'U: has permission' -> 'U: pending TB_Revoke' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.4, 6.2.5.3.1, 6.2.5.4.2, 6.2.5.5.3 – 6.2.5.5.5
SCR Reference	PoC_UserPlaneV1-UTB-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0354
Preconditions	PoC Client is registered for PoC service with SIP/IP core
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC Client receives TB_Revoke message and enters 'U: pending TB_Revoke' state. 6. PoC Client continues to send media packets. 7. PoC Client receives 'TB_Idle' message and enters 'U: has no permission' state. 8. After TBD seconds PoC User requests permission to speak. 9. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 10. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets. 11. PoC Client receives TB_Revoke message and enters 'U: pending TB_Revoke' state. 12. PoC Client continues to send media packets. 13. PoC Client receives 'TB_Taken' message (acknowledgement expected) and enters 'U: has no permission' state. 14. PoC Client sends a TBCP Talk Burst Acknowledgement message 15. After TBD seconds PoC User requests permission to speak. 16. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 17. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets. 18. PoC Client receives TB_Revoke message and enters 'U: pending TB_Revoke' state. 19. PoC Client continues to send media packets.

	20. PoC Client receives RTP media packet after TBD seconds and enters 'U: has no permission' state. 21. After TBD seconds PoC User requests permission to speak. 22. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	4. RTP Media packet received from PoC Client 5. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 6. At least 3 media packets are sent by PoC Client after Talk burst Revoke indication given to the PoC User. 7a. No media packets received from PoC Client for TBD seconds 7b. Talk burst idle notification provided to PoC User 9. TB_Request received from POC Client 10a. RTP Media packet received from PoC Client 10b. Talk burst granted notification provided to PoC User 11. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 12. At least 3 media packets are sent by PoC Client after Talk burst Revoke indication given to the PoC User. 13a. No media packets received from PoC Client for TBD seconds 13b. Talk burst taken notification provided to PoC User 14. TBCP Talk Burst Acknowledgement message received from PoC Client 16. TB_Request received from POC Client 17a. RTP Media packet received from PoC Client 17b. Talk burst granted notification provided to PoC User 18. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 19. At least 3 media packets are sent by PoC Client after Talk burst Revoke indication given to the PoC User. 20a. PoC Client renders received RTP media packet to PoC User. 20b. No media packets received from PoC Client for TBD seconds 22. TB_Request received from POC Client

6.2.1.5 PoC-1.0-con-C-0355 – Basic Operation STD / Talk Burst Request / Not Granted with retries (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0355
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for talk burst request, and is able to handle retries when the talk burst is not granted, within the "PoC Client state transition diagram for basic operation". Transition(s) tested: 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.1.2, 6.2.5.2.4, 6.2.5.3.1, 6.2.5.3.2, 6.2.5.3.3, 6.2.5.3.6
SCR Reference	PoC_UserPlaneV1-UTB-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0355
Preconditions	PoC Client is registered for PoC service with SIP/IP core PoC Client set to Auto Answer Mode.
Test Procedure	1. The PoC Client receives a SIP INVITE containing the P-Alerting-Mode header with value "Auto". 2. PoC Client sends SIP 200 "OK" response and enters state 'U: has no permission'. 3. After TBD seconds PoC User requests permission to speak. 4. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 5. After TBD seconds PoC Client receives TB_Deny and enters 'U: has no permission' state. 6. After TBD seconds PoC User requests permission to speak. 7. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 8. After TBD seconds PoC Client receives TB_Taken and enters 'U: has no permission' state. 9. After TBD seconds PoC User requests permission to speak. 10. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 11. After TBD seconds PoC Client receives RTP Media packet and enters 'U: has no permission' state. 12. After TBD seconds PoC User requests permission to speak. 13. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 14. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets.
Pass Criteria	2. SIP 200 "OK" received from PoC Client 3. No RTP Media packets received from PoC Client for a period of TBD seconds. 4. TB_Request message received from PoC Client 5a. No RTP Media packets received from PoC Client for a period of TBD seconds. 5b. Talk burst deny notification provided to PoC User.

	6. No RTP Media packets received from PoC Client for a period of TBD seconds. 7. TB_Request message received from PoC Client 8a. No RTP Media packets received from PoC Client for a period of TBD seconds. 8b. Talk burst taken notification provided to PoC User. 9. No RTP Media packets received from PoC Client for a period of TBD seconds. 10. TB_Request message received from PoC Client 11a. No RTP Media packets received from PoC Client for a period of TBD seconds. 11b. PoC Client renders received RTP media packet to PoC User. 12. No RTP Media packets received from PoC Client for a period of TBD seconds. 13. TB_Request message received from PoC Client 14. RTP Media packet received from PoC Client

Note: Further test cases need to be added here to test transition to the 'Releasing' state.

6.2.1.6 PoC-1.0-con-C-0356 – Receive TBCP talk burst idle message indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0356
Test Object	PoC Client
Test Case Description	Check that when there is no active talker (signalled by a Talk Burst Idle message), the PoC User is provided with an indication that he may attempt to Talk.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.1,
SCR Reference	PoC_UserPlaneV1-UTB-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client in state "In-MTCall".
Test Procedure	1. PoC User requests permission to speak. 2. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 3. PoC Client receives a TB_deny (with a reason code value of "1") and enters state U: has no permission. 4. After a pause of approximately 5 seconds, the PoC Client receives TB_Idle. 5. {ReleaseSession macro} (see C.4) 6. {Deregister macro} (see C.5)
Pass Criteria	3. Talk Burst Deny indication is provided to the PoC User. 4. Talk Burst Idle notification is provided to the PoC User.

6.2.1.7 PoC-1.0-con-C-0357 – Talker identification / user has no permission (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0357
Test Object	PoC Client
Test Case Description	Check that when there is another active Talker, signalled by a TB_taken message, the PoC User is provided with the identity of that Talker.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.2
SCR Reference	PoC_UserPlaneV1-UTB-C-003, PoC_UserPlaneV1-UID-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. The test tool sends a TB_Taken message, including a URI of "sip:william.grimes@operator.net" and a Nickname of "Bill G". 2. PoC Client remains in the state U: no permission. 3. PoC Client displays identity of fictitious user that has been granted talk permission. 4. Test Tool prompts PoC User to check that talker identity is displayed. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	4. The PoC Client presents a correct indication of the talker identity. That is URI "sip:william.grimes@operator.net" and Nickname "Bill G".

6.2.1.8 PoC-1.0-con-C-0358 – Talker identification, pending TB request (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0358
Test Object	PoC Client
Test Case Description	Check that when requesting permission to Talk and there is another active talker, signalled by a TB_taken message, the PoC User is provided with the identity of that Talker.
Specification Reference	[OMA-PoC-UP] 6.2.5.3.2
SCR Reference	PoC_UserPlaneV1-UTB-C-003, PoC_UserPlaneV1-UID-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client in state "In-MTCall". PoC Client supports display of Talker Identification information to the PoC User.
Test Procedure	1. PoC User requests permission to talk 2. PoC client sends TB_request and moves to the state U: pending TB_request.

	3. The test tool sends a TB_Taken message, including a URI of "sip:william.grimes@operator.net" and a Nickname of "Bill G". 4. {ReleaseSession macro} (see C.4) 5. {Deregister macro} (see C.5).
Pass Criteria	3. The PoC Client provides Talker Identification information which is consistent with either or both the URI "sip:william.grimes@operator.net" and the Nickname "Bill G".

6.2.1.9 PoC-1.0-con-C-0359 – Talker identification, pending TB release (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0359
Test Object	PoC Client
Test Case Description	Check that when releasing the talk channel and another Talker becomes active, signalled by a TB_taken message, the PoC User is provided with the identity of that Talker.
Specification Reference	[OMA-PoC-UP] 6.2.5.5.4
SCR Reference	PoC_UserPlaneV1-UTB-C-003, PoC_UserPlaneV1-UID-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. PoC Client is in the state U: has no permission
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The test tool sends TB_Granted, and the client moves to the state U: has permission. 4. The user releases the talk button, causing the client to send TB_Release. 5. The test tool sends a TB_Taken message, including a URI of "sip:william.grimes@operator.net" and a Nickname of "Bill G". 6. PoC Client displays identity of fictitious user that has been granted talk permission. 7. Test Tool prompts PoC User to check that talker identity is displayed. 8. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	7. The PoC Client presents a correct indication of the talker identity. That is URI "sip:william.grimes@operator.net" and Nickname "Bill G".

6.2.1.10 PoC-1.0-con-C-0360 – Talker identification, pending TB revoke (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0360
Test Object	PoC Client

Test Case Description	Check that when Talk permission is revoked and another Talker becomes active before the User releases the Talk button, the PoC User is provided with the identity of that Talker.
Specification Reference	[OMA-PoC-UP] 6.2.5.6.3
SCR Reference	PoC_UserPlaneV1-UTB-C-003, PoC_UserPlaneV1-UID-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The test tool send TB_Granted, and the client moves to the state U: has permission. 4. After a pause of approximately 1 second (to ensure the client is at the expected state U: has permission) the test tool sends TB_Revoke, causing the client to enter the state U: pending TB_Revoke. 5. After a pause of approximately 1 second (to ensure the client is at the expected state U: pending TB_Revoke) the test tool sends a TB_Taken message, including a URI of "sip:william.grimes@operator.net" and a Nickname of "Bill G". 6. PoC Client moves to the state U: no permission, and displays identity of fictitious user that has been granted talk permission. 8. Test Tool prompts PoC User to check that talker identity is displayed. 9. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	8. The PoC Client presents a correct indication of the talker identity. That is URI "sip:william.grimes@operator.net" and Nickname "Bill G".

6.2.1.11 PoC-1.0-con-C-0361 – Talk burst denial reason presentation (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0361
Test Object	PoC Client
Test Case Description	Verify that the PoC User attempting to talk is presented with the reason for Talk denial when such information is provided in the Talk Burst Deny message.
Specification Reference	[OMA-PoC-UP] 6.2.5.3.3
SCR Reference	PoC_UserPlaneV1-UTB-C-007
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client is "In-MTCall". There is no active talker. Client is in the state U: has no permission, and its indicators are consistent

	with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk. 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The test tool sends TB_deny with a reason code value=3 and the reason phrase set to “Only one Participant in the PoC Session”. 4. Test Tool prompts the PoC User to check that the client displays an indication that talk is not permitted, and displays the talk deny reason. 5. On conclusion, the test tool sends TB_idle to return conditions to the initial state. 6. { ReleaseSession macro} (see C.4) 7. {Deregister macro} (see C.5)
Pass Criteria	4. The PoC User confirms that the PoC Client presents the appropriate a correct indication of the talk deny reason (code value=3) according to the defined user interface of the PoC Client.

6.2.1.12 PoC-1.0-con-C-0362 – Talk request timeout / T11 fired N-times (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0362
Test Object	PoC Client
Test Case Description	Check that unsuccessful Talk requests do not continue beyond 6 seconds, and that subsequently, the PoC User is notified of "timeout" indication
Specification Reference	[OMA-PoC-UP] 6.2.5.3.5, 9.3
SCR Reference	PoC_UserPlaneV1-UTB-C-009, UTI-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission). Note that the number of TB_requests sent is related to the number of times N that the timer is fired, and is implementation dependent. The actual value of N is unimportant for this test.
Test Procedure	1. Test Tool prompts PoC User to request permission to talk for at least 8 seconds. 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The Test Tool does not respond, but monitors elapsed time for subsequent requests. 4. The PoC Client sends further TB_Requests, and then ceases. 5. PoC Client indicates to the PoC User that the request has timed out. 6. Test Tool prompts PoC User to check the timeout indication, and to release the talk button. 7. On conclusion, the test tool sends TB_idle to return conditions to the initial state.

Pass Criteria	4. PoC Client ceases issuing TB_requests after no greater than 6 seconds. 6. User confirms that a timeout indication has been presented on the PoC Client's display.

6.2.1.13 PoC-1.0-con-C-0363 – Managing Talk burst revoke / user has permission (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0363
Test Object	PoC Client
Test Case Description	Check that the PoC Client indicates to the User the reason for talk permission being revoked.
Specification Reference	[OMA-PoC-UP] 6.2.5.4.3, 6.2.5.5.6
SCR Reference	PoC_UserPlaneV1-UTB-C-010, PoC_UserPlaneV1-UTB-C-013
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The Test Tool sends TB_Granted, and the client moves to the state U: has permission. 4. After a pause of approximately 1 second (to ensure the client is at the expected state U: has permission) the test tool sends TB_Revoke, with Reason code 4 (Talk Burst pre-empted) 5. The client to enters the state U: pending TB_Revoke. 6. Test Tool prompts PoC User to check the display, and to release the talk button. 7. PoC Client sends TB_release. 8. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	6. PoC User confirms that an indication has been presented on the PoC Client's display that is consistent with reason code 4. (The actual choice of words is implementation dependent.)

6.2.1.14 PoC-1.0-con-C-0364 – RTP media sequence number notification on TB release (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0364
Test Object	PoC Client
Test Case Description	When the Talk Burst is released, verify that the PoC client correctly sends a TB_Release message containing sequence number information about the most recent RTP media sent.
Specification Reference	[OMA-PoC-UP] 6.2.5.4.2, 6.2.5.6.5,

SCR Reference	PoC_UserPlaneV1-UTB-C-012
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. The test tool send TB_Granted, and the client moves to the state U: has permission. 4. Media packets are sent by the client, and the test tool notes the sequence numbers of the packets received. 5. The Test Tool prompts the PoC User to release the talk button, causing the PoC Client to stop sending media packets, and to send TB_Release. (The TB_Release message includes RTP sequence number information.) 6. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	5a. In the TB_Release message, the Ignore sequence Number field is 0 5b. The Sequence number field is non-zero, and matches the RTP media packet sequence number last received from the client.

6.2.1.15 PoC-1.0-con-C-0365 – Participation level indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0365
Test Object	PoC Client
Test Case Description	Verify that the PoC Client displays the number of participants in the session when granted permission to talk.
Specification Reference	[OMA-PoC-UP] 6.2.5.3.1
SCR Reference	PoC_UserPlaneV1-UTB-C-021
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. Test tool sends TB_granted, including the number of participants value of 15 4. The PoC Client indicates to PoC User that talk is permitted and displays the number of participants.

	5. The test tools prompts the PoC User to check the indicated display, and then to release the talk button. 6. PoC Client sends TB_Release. 7. On conclusion, the test tool sends TB_idle to return conditions to the initial state.
Pass Criteria	5. Display shows participation level of 15.

6.2.2 PoC Session Control – Pre-established session

6.2.2.1 PoC-1.0-con-C-0392 – Pre-established session / basic support of extensions (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0392
Test Object	PoC Client
Test Case Description	When starting a pre-established PoC session, verify that the PoC Client correctly responds the TB_Connect message, and later closes the session on receipt of TB_Disconnect message.
Specification Reference	[OMA-PoC-UP] 6.2.6, 6.5.12, 6.5.13
SCR Reference	PoC_UserPlaneV1-UTB-C-014, PoC_UserPlaneV1-UME-C-015
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A Pre-established session has been established between test tool and client, but it is not in use.
Test Procedure	1. Test tool sends TB_connect to notify the PoC Client that it has been invited to a PoC session. 2. PoC Client sends TB_ack and moves to the state U: Pre-established_session_in_use 3. Test tool send TBCP TB_taken with acknowledgement required 4. PoC Client sends TB_ack (and remains in the state U: Pre-established_session_in_use.) 5. Test tool sends TB_disconnect 6. PoC Client sends TB_ack
Pass Criteria	2. PoC Client sends TB_Ack with reason code “accepted” 4. PoC Client sends TB_Ack 6. PoC Client sends TB_Ack

6.2.2.2 PoC-1.0-con-C-0393 – Pre-established session / basic support of extensions / RTP media session release (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0393
Test Object	PoC Client
Test Case Description	While waiting to start using a pre-established session, verify that the PoC Client correctly responds to received media and starts the session. Verify also that it releases the media at the close of the session.

Specification Reference	[OMA-PoC-UP] 6.2.6, 6.5.12, 6.5.13, 7.6
SCR Reference	PoC_UserPlaneV1-UTB-C-014, PoC_UserPlaneV1-UMC-C-014 PoC_UserPlaneV1-UME-C-015
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	A Pre-established session has been established between test tools and client, but it is not in use.
Test Procedure	1. Test tool sends RTP media packets. 2. PoC Client moves to the state U: Pre-established_session_in_use 3. Test tool sends a TBCP TB_taken message with acknowledgement required. 4. PoC Client sends TB_ack and remains in the state U: Pre-established_session_in_use 5. Test Tool prompts PoC User to close the PoC session. 6. PoC Client releases the media session, and sends SIP REFER BYE message.
Pass Criteria	4. TB_ack sent. 6. Media flow ceases

6.2.3 PoC Session Control – Simultaneous sessions

6.2.3.1 PoC-1.0-con-C-0411 – Accept a second simultaneous session, basic operation (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0411
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can accept a second simultaneous session and verify that it reacts correctly to TBCP and RTP media packets.
Specification Reference	[OMA-PoC-UP]] 6.2.7, 6.2.8, 6.2.8.3.1, 7.5.1
SCR Reference	PoC_UserPlaneV1-UTB-C-015
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	No PoC session is active. PoC Client supports the feature: changing session priority.
Test Procedure	1. Test tool initiates a first PoC session (Control plane signalling). 2. PoC Client accepts session and sets the session priority to secondary. (This is “Session A” in this procedure) (Client enters the U: has_no_permission state. PoC Client also enters the state C:Secondary_PoC_session_active and the session itself enters the state S:active). 3. Test tool initiates a second PoC session (Control plane signalling). 4. PoC Client accepts session and sets the session priority also to secondary. (This is “Session B” in this procedure.) (Client sets the second TB state machine to the U: has_no_permission state. PoC Client also remains in the state C:Secondary_PoC_session_active and the second session itself enters the state S:dormant.

	5. Test tool sends TB_Taken and RTP media for Session A, with acknowledgement requested. 6. PoC client sends TB_ack for Session A , and renders RTP media. 7. Test tool sends TB_taken for Session B, with acknowledgement requested. 8. PoC Client sends TB_ack (for Session B) 9. Test tool sends RTP media for Session B. 12. (At the Client, Session B becomes s:active, Session A becomes s:dormant and PoC Client remains in the state C:Secondary_PoC_Session_active 10. PoC Client renders RTP media (for Session B) 11. Test tool sends TB_Taken for Session B, with acknowledgement requested. 12. PoC client sends TB_ack for session B.
Pass Criteria	4. The second session is accepted. 6. TB_ack sent, and media rendered by PoC Client for the active session. 8. TB_ack sent for the dormant session. 10. Media rendered by PoC Client for Session B. 12. TB_Ack sent for session B.

6.2.3.2 PoC-1.0-con-C-0412 – Simultaneous sessions / managing TBCP messages (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0412
Test Object	PoC Client
Test Case Description	When talking in a secondary session, verify that TBCP messages for primary session are handled, that is, it responds to messages for dormant session.
Specification Reference	[OMA-PoC-AD] 8.10.4 [OMA-PoC-UP] 6.2.8.3.1, 6.2.8.3.10, 6.2.7.2.6, 7.5.1
SCR Reference	PoC_UserPlaneV1-UTB-C-015, PoC_UserPlaneV1-UTB-C-016
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC client supports simultaneous sessions, locking and queuing. A PoC session has been established using the appropriate signalling protocols, but there is no active talker. The Session Unique Identifier has been assigned as “Session A”. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test tool prompts the User to initiate an additional session and makes it the primary session. 2. PoC Client issues SIP Invite with a session parameter set for primary session. 3. The Test tool accepts the session and assigns it the unique identifier “Session B”. Also, it implicitly assigns secondary status to the initial Session A. 4a. Test Tool prompts user to press the Talk button.

	4b. PoC Client sends TB Request. 5a. The Test Tool responds with a TB Queued message. 5b. PoC Client provides "queued" notification to PoC User. 6a. Test Tool prompts user to select the (secondary) Session A and lock to it. 6b PoC Client sends a SIP request that includes a SIP Update request with a "poc_lock" attribute. 7. Test tool responds with a SIP 200 "OK". 8a. Test Tool prompts user to press the Talk button. 8b. PoC Client sends TB Request, and the Test Tool responds with TB Granted permission. 9. PoC Client sends RTP media for Session A. 10. Test tool sends Talk Burst Taken message for Session B, with acknowledgement request. The Test Tool may also send RTP media at this point. 11. PoC Client prepares a TB Acknowledgement (for Session B), (but doesn't yet send it as it should not interrupt a Talk Burst). PoC Client continues with the active Session A. 12. Test tool prompts User to release the talk button. 13. PoC Client sends TB Acknowledgement for session B and TB Release for session A. 14. Test Tool sends TB Granted for Session B [for queued request at Steps 4 and 5] 15a. PoC Client provides Talk burst Granted notification to PoC User. 15b. Test tool prompts User to check TB Granted notification. At end of procedure, Test tool prompts user to release the Talk button.
Pass Criteria	4. TB Request sent by PoC Client. 5. "queued" notification to PoC User is provided by PoC Client. 8. TB Request sent by PoC Client. 9. RTP media for Session A sent by PoC Client. 11. PoC Client continues to send RTP media for Session A. 13a. TB Acknowledge for session B sent by PoC Client. 13b. TB Release for session A sent by PoC Client 15. Talk burst Granted notification provided to PoC User.

6.2.3.3 PoC-1.0-con-C-0413 – Simultaneous session / change of source (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0413
Test Object	PoC Client
Test Case Description	When two simultaneous sessions are in use, and the PoC server changes the active session (media stream) being delivered to the Client, verify that the Client releases a queued Talk Burst.
Specification Reference	[OMA-PoC-AD] 8.10.4 8.10.5 [OMA-PoC-UP] 6.2.7, 6.2.8, 7.5.1

SCR Reference	PoC_UserPlaneV1-UTB-C-015, PoC_UserPlaneV1-UMC-C-012
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC client supports simultaneous sessions and queuing. A PoC session has been established using the appropriate signalling protocols, but there is no active talker. The Session Unique Identifier has been assigned as "Session A". Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission, no hold).
Test Procedure	1. Test tool prompts the User to initiate an additional session and make it the primary session. 2. PoC Client issues SIP invite with a session parameter set for primary session. 3. The Test tool accepts the session and assigns it the unique identifier "Session B". Also it automatically assigns secondary status to the initial Session A. 4. Test Tool prompts user to select the first (secondary) session A and then press the Talk button. 5. PoC Client sends TB Request, and the Test Tool responds with a TB Queued message. 6. Test tool sends Talk Burst Taken message and sends RTP media packets for Session A. 7. Test tool sends Talk Burst Taken message for Session B. 8. Test tool halts media stream for Session A and sends RTP media packets for (primary) Session B. 9. PoC Client releases the queued TB request by sending TB Release.
Pass Criteria	9. PoC Client sends TB Release.

6.2.3.4 PoC-1.0-con-C-0414 – Locked session release (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0414
Test Object	PoC Client
Test Case Description	When talking in a session that is locked, and the user chooses to talk in another session, verify that the PoC Client issues a Session Unlock message.
Specification Reference	[OMA-PoC-UP] 6.2.7, 6.2.8, 6.2.8.2.6, 7.5.1, [OMA-PoC-AD] 8.10.4
SCR Reference	PoC_UserPlaneV1-UTB-C-015, PoC_UserPlaneV1-UTB-C-016
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	Two sessions are running, with the primary session active, and the secondary session dormant. [Note that this test is closely related to a control plane test PoC-1.0-con-C-0077 , and it may desirable to perform the two tests together]
Test Procedure	1. PoC Test Tool prompts PoC User to request a lock-in to the (active) primary session.

	2. The PoC Client requests lock-in using control plane signalling, and becomes locked to the primary session. (Client state becomes C: lockin_PoC_session_active) 3. Test Tool prompts PoC User to initiate a switch to the secondary session. 4. PoC Client signals Unlock for the primary session, and places that session in the S: Dormant state. It also changes the secondary session to the S: Active state. (Client state becomes C: secondary_PoC_session_active)
Pass Criteria	4. When requesting TB_Request to the secondary session, the PoC Client releases the lock to the original session by sending SDP Unlock for primary session.

6.2.3.5 PoC-1.0-con-C-0415 – Simultaneous sessions / participation level indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0415
Test Object	PoC Client
Test Case Description	Verify that the PoC Client dealing with simultaneous sessions displays the number of participants in the session when granted permission to talk.
Specification Reference	[OMA-PoC-UP]] 6.2.7, 6.2.8, 6.2.8.3.10, 6.2.7.4.6.7, 6.2.7.2.6
SCR Reference	PoC_UserPlaneV1-UTB-C-015, PoC_UserPlaneV1-UTB-C-022
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports the feature to display the number of participants. No PoC session is active.
Test Procedure	1. Test tool initiates a first PoC session (Control plane signalling). 2. PoC Client accepts session and sets the session priority to Primary. (Client enters the U: has_no_permission state.) 3. PoC Client also enters the state C:Primary_PoC_session_active and the session itself enters the state S:active . 4. Test tool initiates a second PoC session (Control plane signalling). 5. PoC Client accepts session and sets the session priority to Primary, implicitly making the first session secondary. (In second TB state machine Client enters the U: has_no_permission state.) 6. PoC Client also remains in the state C:Primary_PoC_session_active and the earlier secondary session enters the state S:dormant . 7. Test Tool prompts PoC User to make a talk request. 8. PoC Client sends TB_Request 9. Test tool sends TB_granted, including the number of participants value of 12 10. PoC Client indicates to user the number of participants 11. Test tool prompts the PoC User to check the indicated display, and then to release the talkburst button, causing the PoC Client to send TB_Release.
Pass Criteria	11. Display shows participation notification value of 12.

6.2.4 PoC Session Control – queuing

6.2.4.1 PoC-1.0-con-C-0431 – TB queuing / permission granted (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0431
Test Object	PoC Client
Test Case Description	While waiting for permission to talk, verify that PoC Client is able to wait in a queue and indicate this state to the PoC user.
Specification Reference	[OMA-PoC-UP] 6.2.9, 6.2.9.3.7, 6.5.11
SCR Reference	PoC_UserPlaneV1-UTB-C-017, PoC_UserPlaneV1-UME-C-014
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports queuing. No PoC session is active.
Test Procedure	1. The test tool initiates a PoC session, granting the Client normal priority. 2. PoC Client enters the state U: has_no_permission. 3. PoC Test Tool prompts PoC User to request talk permission. 4. PoC Client sends TB_request, and enters the state U: Pending TB_request. 5. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 6. PoC Client moves to the state U: queued, and presents a talk burst request queued status response notification to the User. 7. Test Tool prompts PoC User to check that indication, and continue to hold talk request button. 8. Test tool sends TB_taken message. 9. PoC Client remains in the state U:queued, and presents a talk-burst-taken notification to the PoC User. 10. Test Tool prompts PoC User to check the talk-burst-taken notification. 11. Test tool sends a TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 12. PoC Client remains in the state U: queued, and presents a talk burst request queued status response notification, indicating to the PoC User that the request is in a queue. 13. Test Tool prompts PoC User to check the display for queued indication. 14. Test tool sends a TB_granted message. 15. PoC Client moves to the state U: has permission, and presents a Talk burst granted notification to the User. 16. Test Tool prompts PoC User to check the permission indicator. 17. Test Tool prompts PoC User to release the Talk button.
Pass Criteria	7. Queued status response notification is presented to the User. 10. Talk burst taken notification is presented to the User. 13. Q queued status response notification is presented to the User.

	16. Talk burst granted notification is presented to the User.

6.2.4.2 PoC-1.0-con-C-0432 – TB queuing / permission denied (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0432
Test Object	PoC Client
Test Case Description	While attempting permission to talk, verify that PoC Client queues for talk permission and then when talk permission is denied verify that it leaves the queued state and cancels queue notification.
Specification Reference	[OMA-PoC-UP] 6.2.9, 6.2.9.3.7, 6.5.11
SCR Reference	PoC_UserPlaneV1-UTB-C-017, PoC_UserPlaneV1-UME-C-014
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports queuing. No PoC session is active.
Test Procedure	1. The test tool initiates a PoC session, granting the Client normal priority. 2. PoC Client enters the state U: has no permission. 3. PoC Test Tool prompts PoC User to request talk permission. 4. PoC Client sends TB_request., and enters the state U: Pending TB_request. 5. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 6. PoC Client moves to the state U: queued, and presents a Queued status response notification to the PoC User. 7. Test Tool prompts PoC User to check that indication, and continue to hold talk request button. 8. Test tool sends TB_deny message, with no reason (length field =0) 9. PoC Client cancels Queued status response notification. 10. Test Tool prompts PoC User to check indicator and then release talk button.
Pass Criteria	7. Queued status response notification is presented to the User. 10. Queued status response notification to user is cancelled.

6.2.4.3 PoC-1.0-con-C-0433 – Queue Status Notification (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0433
Test Object	PoC Client
Test Case Description	For a PoC Client that supports queue position information, check that it can request queue position information and that it notifies the User of the position in the queue.
Specification Reference	[OMA-PoC-UP] 6.2.9.3.7, 6.5.10, 6.5.11
SCR Reference	PoC_UserPlaneV1-UTB-C-018, PoC_UserPlaneV1-UME-C-013, PoC_UserPlaneV1-UME-C-014

Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports queuing. No PoC session is active. PoC Client issues requests for queue position information when queuing is used.
Test Procedure	1. The test tool initiates a PoC session, granting the PoC Client normal priority. 2. PoC Client enters the state U: has no permission. 3. PoC Test Tool prompts PoC User to request talk permission. 4. PoC Client sends TB_request and enters the state U: Pending TB_request. 6. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 7. PoC Client moves to the state U: queued, and presents Queued status response notification to User, indicating that the request is in a queue. 8. Test Tool prompts PoC User to check that indication, and continues to hold talk request button. 9. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position declaration of 17. 10. PoC Client remains in the state U: queued, and displays position in queue to user. 11. Test Tool prompts PoC User to check that queue position indication, and to continue to hold talk request button. 13 PoC Client sends TB request queue status request message. 14. Test tool sends Test tool sends TB_queued in TB Request Queue Status Response message with a position declaration of 14. 15. PoC Client displays position in queue to User. 16. Test Tool prompts PoC User to check queue position indication. 17. Test Tool prompts PoC User to release talk request button.
Pass Criteria	10. Queue request message received from PoC Client 11. PoC Client displays position of 17 in queue. 16. PoC Client displays position of 14 in queue.

6.2.4.4 PoC-1.0-con-C-0434 – Talk burst priority “listen only”

Test Case ID	PoC-1.0-con-C-0434
Test Object	PoC Client
Test Case Description	Verify that when it has been granted “listen-only” priority, the PoC Client does not make a talk burst request.
Specification Reference	[OMA-PoC-UP] 6.2.9.2.1
SCR Reference	No PoC_UserPlaneV1 SCR item for this.
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports queuing.

	PoC Client that supports prioritisation of talk bursts. No PoC session is active.
Test Procedure	1. The test tool initiates a PoC session, granting the PoC Client listen-only priority. (Maxpriority = 00) 2. PoC Client enters the state U: has no permission. 3. Test Tool prompts PoC User to request talk permission, and presses the talk request button. 4. PoC Client presents an indication to the user that client may only listen. 5. Test Tool prompts PoC User to check display. 6. PoC Client and remains in the state U: has no permission (and does not send any TB_request.) 7. Test Tool prompts PoC User to release talk request button.
Pass Criteria	5. "Listen only" mode indicated to user. 3-7. No TB_request sent and no TB_release sent.

6.2.4.5 PoC-1.0-con-C-0435 – TB queuing / receive TB deny / display reason

Test Case ID	PoC-1.0-con-C-0435
Test Object	PoC Client
Test Case Description	For a PoC Client that supports queuing, verify that it supports the necessary Talk Burst Control messages and check that the PoC User is presented with the reason for Talk denial when such information is provided in the Talk Burst Deny message.
Specification Reference	[OMA-PoC-UP] 6.2.9, 6.2.9.7.4
SCR Reference	PoC_UserPlaneV1-UTB-C-017, PoC_UserPlaneV1-UTB-C-020
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports queuing. PoC Client that supports display of additional information. No PoC session is active.
Test Procedure	1. The test tool initiates a PoC session, granting the Client normal priority. 2. PoC Test Tool prompts PoC User to request talk permission and hold the Talk button. 3. PoC Client sends TB_request, and enters the state U: Pending TB_request. 4. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 5. PoC Client moves to the state U: queued, and the Test Tool prompts the PoC User to check that the PoC client presents Queued status response notification, indicating to the User that the request is in a queue. 6. Test Tool prompts PoC User to continue to hold talk request button. 7. The test tool sends TB_deny with a reason code value=3 and the reason phrase set to "Only one Participant in the PoC Session", 8. PoC Client cancels the Queued status response notification. Test Tool prompts the Uset to check that the displays an indication that talk is not

	permitted and displays the talk deny reason. 9. {ReleaseSession macro} (see C.4) 10. {Deregister macro} (see C.5)
Pass Criteria	5. The PoC User confirms that the Queued status response notification is presented to the User. 8. The PoC User confirms that the PoC Client presents a correct indication of the talk deny reason (code value=3) according to the defined user interface of the PoC Client.

6.2.4.6 PoC-1.0-con-C-0436 – TB Queuing / participation level indication (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0436
Test Object	PoC Client
Test Case Description	Verify that after queuing, the PoC Client displays the number of participants in the session when granted permission to talk.
Specification Reference	[OMA-PoC-UP] 6.2.9.7.3
SCR Reference	PoC_UserPlaneV1-UTB-C-023
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports the feature to display the number of participants.
Test Procedure	1. The Test Tool initiates a PoC session, granting the Client normal priority. 2. PoC Client enters the state U: has no permission. 3. PoC Test Tool prompts PoC User to request talk permission. 4. PoC Client sends TB_request, and enters the state U: Pending TB_request. 5. Test tool sends TB_queued in TB Request Queue Status Response message, with a queue position field set to 65535 (no info). 6. PoC Client moves to the state U: queued, and presents Queued status response notification to the User. 7. Test Tool prompts PoC User to check that indication, and continue to hold talk request button. 8. Test tool sends a TB_granted message, including the number of participants value of 9 9. PoC Client moves to the state U: has permission. 10. PoC Client presents an indication to the user that talk is permitted and displays the number of participants. 11. Test Tool prompts PoC User to check the display information. 12. Test Tool prompts PoC User to release the talk button
Pass Criteria	11. Display shows participation level of 9.

6.3 Media Control

6.3.1 RTCP Quality Feedback

6.3.1.1 PoC-1.0-con-C-0451 – Quality feedback reporting on received media (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0451
Test Object	PoC Client
Test Case Description	Verify that PoC Client is able to support quality feedback by sending using RTCP Receiver Reports (RR) after receiving RTP media. Verify that it sends an RTCP RR compound packet in both of the situations: • when an RTCP SR is sent as a trigger, • when no RTCP SR trigger is detected by the Client.
Specification Reference	[OMA-PoC-UP] 5.4, 7.1, 7.1.2, 7.1.2.2
SCR Reference	PoC_UserPlaneV1-UTR-C-009, PoC_UserPlaneV1-UMC-C-001, PoC_UserPlaneV1-UMC-C-002, PoC_UserPlaneV1-UMC-C-003, PoC_UserPlaneV1-UMC-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports quality feedback A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool sends Talk Burst Taken message. 2. Test Tool sends and Client receives RTP media packets. 3. Test Tool stops sending RTP media and sends Talk Burst Idle message . 4. Test Tool sends a RTCP SR compound packet (trigger for RR) 5. PoC Client compiles a receiver report and sends the RTCP RR compound packet. (If the SR trigger is not used by POC Client, this may occur after a time equivalent to “end of media” timeout) 6. After receiving RR, the Test Tool sends Talk Burst Taken message 7 Test Tool sends RTP media packets 8. Test Tool stops sending RTP media and sends Talk Burst Idle message (Test Tool does not send a RTCP SR compound packet) 9. PoC Client compiles a receiver report and sends the RTCP RR compound packet. (Since the SR trigger is not available to the POC Client, this may occur after a time equivalent to “end of media” timeout)
Pass Criteria	5. RR (Receiver Report) compound packet sent by PoC client. This may occur immediately after step 3 or, if neither the TB Idle nor the SR trigger is used by PoC client, after an “end of media” time lag.

	9. RR (Receiver Report) compound packet sent by PoC client. This may occur immediately after step 8 or, if the TB Idle is not used by PoC client, after an "end of media" time lag.

6.3.1.2 PoC-1.0-con-C-0452 – Quality feedback reporting / no explicit request

Draft Test deleted.

6.3.1.3 PoC-1.0-con-C-0453 – Quality reporting at end of talk burst (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0453
Test Object	PoC Client
Test Case Description	Verify that PoC Client is able to support quality feedback, by sending RTCP Sender Reports at the end of a Talk Burst.
Specification Reference	[OMA-PoC-UP] 5.4, 7.1, 7.1.2, 7.1.2.1
SCR Reference	PoC_UserPlaneV1-UTR-C-009, PoC_UserPlaneV1-UMC-C-001, PoC_UserPlaneV1-UMC-C-002.
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports quality feedback A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool prompts PoC User to request permission to talk 2. The PoC Client sends TB_request and moves to the state U: pending TB_request. 3. Test Tool sends Talk Burst Granted message. 4. PoC Client sends RTP media packets 5. Test Tool prompts PoC User to release the talk button 6. PoC Client compiles a sender report packet and sends the RTCP SR compound packet 7. PoC Client sends TBCP Talk Burst Release message
Pass Criteria	4. RTP media packets sent by PoC Client. 6. SR (Sender Report) compound packet sent by PoC Client. 7. TB Release message sent by PoC Client

6.3.2 Media Parameter Negotiation

6.3.2.1 PoC-1.0-con-C-0461– Inviting PoC Client

Test Case ID	PoC-1.0-con-C-0461
Test Object	PoC Client
Test Case Description	Ensure that the PoC Client offers supported codecs and corresponding Media Parameters intended for PoC Service in the SDP offer payload to the PoC Server, when initiating a PoC Session. When PoC Client receives the invitation response, it must be ensured that the PoC Client uses the granted codec(s) and Media Parameters.
Specification Reference	[OMA-PoC-UP] 7.2, 7.2.1.1, 7.2.1.2, 7.7.1
SCR Reference	PoC UserPlaneV1-UMC-C-005, PoC UserPlaneV1-UMC-C-015
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC User has valid PoC account o On-demand Session is used
Test Procedure	1. PoC User initiates a PoC session 2. PoC Client sends a SIP INVITE. 3. PoC Client receives SIP 200 “OK” containing one of the offered audio codec in the SDP field 4. PoC Client receives Talk Burst Granted message 5. PoC Client sends RTP media
Pass Criteria	2. The INVITE includes a MIME SDP body as a SDP offer with codecs and Media Parameters according to RCF [3264, 3267, 3558] supported by the PoC Client. 3. PoC Client accepts negotiated audio codec of SIP 200 “OK” response by sending SIP ACK request 5. RTP media is send with negotiated audio codec

6.3.2.2 PoC-1.0-con-C-0462 – Invited PoC Client

Test Case ID	PoC-1.0-con-C-0462
Test Object	PoC Client
Test Case Description	Ensure that the SIP message contains the SDP offer with the codec(s) and Media Parameters offered for the PoC Session, when the PoC Client is invited to a PoC Session. The Invited PoC Client responses with supported codec(s) and Media Parameters to the PoC Server in the SDP answer of the invitation response (e.g. in the SIP 200 “OK” response). If more than one codec is granted in the SDP answer the invited PoC Client should be able to identify the used codec(s) from the Payload Type field of the RTP header.
Specification Reference	[OMA-PoC-UP] 7.2, 7.2.1, 7.2.1.2, 7.7.1
SCR Reference	PoC UserPlaneV1-UMC-C-005, PoC UserPlaneV1-UMC-C-015
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client is set to manual answer

Test Procedure	1. The PoC Client receives a SIP INVITE. The INVITE contains the SDP offer with codecs and Media Parameters according to RCF [3264, 3267, 3558] and the used codec in the payload field. 2. PoC Client sends SIP 180 “ringing” 3. PoC Client sends SIP 200 “OK” 4. PoC Client receives TBCP Talk Burst Taken message that another Client has been granted to send Talk Burst. 5. PoC Client receives SIP ACK 6. PoC Client receives RTP media
Pass Criteria	3. The SIP200 response of the PoC Client contains the agreed codec and the accepted media parameter in the SDP field 6. RTP media is received and presented by the PoC Client

6.3.3 User Plane Adaptation

6.3.3.1 PoC-1.0-con-C-0471 – Media control – server initiated

Draft test 471 is removed.

6.3.3.2 PoC-1.0-con-C-0472 – Change voice frame packetisation or voice codec mode / out-band signalling (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0472
Test Object	PoC Client
Test Case Description	Verify that the PoC Client can successfully negotiate voice parameter changes using out-band signalling in the SDP payload of a SIP message.
Specification Reference	[OMA-PoC-UP] 7.3, 7.3.1 [OMA-PoC-AD] 8.12
SCR Reference	PoC_UserPlaneV1-UMC-C-006, PoC_UserPlaneV1-UMC-C-007, PoC_UserPlaneV1-UMC-C-009
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o The test tool offers an appropriate 3G bit rate on the radio interface o PoC User has ongoing PoC session with appropriate Talk Burst bitrate. o Support for User Plane Adaptation
Test Procedure	1. PoC Client sends RTP media 2. The Test Tool reduces the bit rate of the radio interface to an appropriate 2G bitrate during Talk Burst. 3. The PoC Client stops sending RTP media and send Talk Burst Release message 4. PoC Client generates a new Media Parameter SDP offer using a SIP re-INVITE request. This could be done by either change the speech coding (e.g. speech codec, codec mode) or the packetizing of speech coder frames 5. The PoC Client receives SIP200 “OK” 6. The PoC User initiates sending of TalkBursts

Pass Criteria	2. The PoC Client does not initiate User Plane adaptation procedure 3a. The Client recognizes the mismatch of Radio and Talk Burst bitrate 3b. PoC Client initiates User Plane Adaptation and changes voice codec mode by Out-band signaling (SDP payload within SIP message) 5b. The session continues with new media parameters 6. The PoC Client send Talk Burst Request message and starts sending RTP media

6.3.4 Media on/off Hold

6.3.4.1 PoC-1.0-con-C-0481 – Media on hold - Receive TBCP Messages (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0481
Test Object	PoC Client
Test Case Description	Verify that when media is placed on hold, the PoC Client continues to receive TBCP messages (TB Idle, TB Deny, TB Taken). Verify also that Client resumes normal operation, sending and receiving talk bursts, after hold is cancelled.
Specification Reference	[OMA-PoC-UP] 7.4.1
SCR Reference	PoC_UserPlaneV1-UMC-C-010
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports “media on hold” function. A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission, no hold).
Test Procedure	1a. Test Tool sends Talk Burst Taken message and sends RTP media packets. 2a PoC Client provides Talk Burst Taken notification for User. 2b. Test tool prompts User to check TB taken notification 3. Test tool prompts User to activate the “hold” function 4. PoC Client sends a SIP request that includes an “a=sendonly” attribute in the SDP offer. 5. Test tool sends a SIP 200 “OK” and ceases to send media packets. 6. Test tool sends Talk burst Idle message. 7. Test Tool sends TB taken, with a request for Acknowledgement. 8. PoC Client sends a TB Acknowledgement and provides Talk Burst Taken notification to User. 9a. Test tool prompts User to press Talk Button, causing PoC Client to send a Talk Burst Request. 10a. Test Tool sends a Talk burst Deny message, and the PoC Client

	presents “Deny” notification to PoC User 10b. Test tool prompts User to check the Deny notification. 11. Test tool prompts User to release the talk button 12a. Test tool prompts user to cancel the “hold” function” 12b. PoC Client sends a SIP request that includes an “a=sendrecv” attribute in the SDP offer. 13. Test tool sends a SIP 200 “OK”. 14. Test tool sends Talk burst idle message. 15. Test Tools sends TB taken, with a request for Acknowledgement. 16a. PoC Client sends a TB Acknowledgement and provides Talk Burst Taken notification to PoC User. 17a. Test tool prompts User to press Talk Button, causing PoC Client to send a Talk Burst Request. 18a. Test Tool sends a Talk burst Deny message and the PoC Client presents “Deny” notification to PoC User 18b. Test tool prompts User to check the Deny notification 19. Test tool prompts User to release the talk button 20. Test tool sends RTP media packets (simulating a talkburst). 21a. PoC Client receives and renders the RTP media. 21b. Test tool prompts User to check the rendering of the RTP media (talkburst).
Pass Criteria	2. Talk burst Taken notification is provided 4. “sendonly” SIP request sent by PoC Client 8a. TB Acknowledgement is sent 8b. Talk burst Taken notification is provided 9. Talk burst Request is sent. 10 Talk burst “Deny” notification is provided 12. “sendreceive” SIP request sent by PoC Client 16a. TB Acknowledgement is sent 16b. Talk burst Taken notification is provided 17. Talk burst Request is sent. 18. Talk burst “Deny” notification is provided 21. Talkburst media is rendered.

6.3.4.2 PoC-1.0-con-C-0482 – Controlling Talk bursts when media on hold (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0482
Test Object	PoC Client
Test Case Description	Verify that when media is placed on hold, the PoC Client continues to send talk bursts, and that it responds to TBCP messages (TB Idle, TB Granted, TB Revoke)
Specification Reference	[OMA-PoC-UP] 7.4
SCR Reference	PoC_UserPlaneV1-UMC-C-010, PoC_UserPlaneV1-UMC-C-011

Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports “media on hold” function, and the option to send talk bursts whilst on hold. A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission, no hold).
Test Procedure	1. Test Tool sends Talk Burst Taken message and sends RTP media packets. 2. Test tool prompts user to activate the “hold” function 3. PoC Client sends a SIP request that includes an “a=sendonly” attribute in the SDP offer. 4. Test tool sends a SIP 200 “OK” and ceases to send media packets. 5. Test tool sends Talk burst Idle message. 6. Test tool prompts user to press Talk Button, causing PoC Client to send a Talk Burst Request. 7a. Test Tool sends a Talk burst Granted message, and the PoC Client presents TB Granted notification to PoC User 7b. Test tool prompts User to check the Granted notification. 8. PoC Client begins sending RTP media 9. Test Tool send TB Revoke message. 10a. PoC Client informs PoC User of TB Revoke 10b. Test Tool prompts User to check Talk burst Revoke notification. 11. Test Tool sends TB Idle 12a. PoC Client presents TB Idle notification to PoC User. 12b. Test tool prompts User to check Idle notification. 13. Test tools prompts User to release the talk button and to cancel the “hold” function”
Pass Criteria	7. Talk burst Granted notification is presented to PoC User. 8. PoC Client sends RTP media. 10. Talk burst Revoke information is presented to PoC User. 12. Talk burst Idle notification is presented to PoC User.

6.3.5 Simultaneous PoC session

6.3.5.1 PoC-1.0-con-C-0491 – Simultaneous sessions / sending RTP media (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0491
Test Object	PoC Client
Test Case Description	When involved in three simultaneous PoC sessions, verify that PoC client can send RTP media packets to any of the chosen PoC sessions selected by the User.
Specification Reference	[OMA-PoC-UP] 7.5.1

SCR Reference	PoC_UserPlaneV1-UMC-C-012, PoC_UserPlaneV1-UMC-C-013
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC client supports simultaneous sessions, and the option to offer the user a means of selecting any session on which to send media packets. No PoC Session is active.
Test Procedure	1. Test tool initiates a first PoC session (Control plane signalling) and assigns it the unique identifier "Session A". 2. PoC Client accepts session and enters the U: has_no_permission state in the basic TB state machine 3. Test tool prompts the User to initiate a second session that becomes the primary session. 4. PoC Client issues SIP invite with a session parameter set for primary session. 5. The Test tool accepts the session and and assigns it the unique identifier "Session B". 6. Test tool prompts the User to initiate a third session as a secondary session. 7. PoC Client issues SIP invite with a session parameter set for secondary session . 8. The test tool accepts the third session and assigns it the unique identifier "Session C" 9. Test Tool prompts the User to select session A and press the Talk button. 10. PoC Client sends TB Request 11. Test tools sends TB Granted 12. PoC Client sends RTP media on UDP port for session A 13. Test Tool prompts the User to release the Talk button, 14. Test Tool send TB Idle, causing PoC Client to return to U: has_no_permission state for session A. 15. Test Tool prompts the User to select session C and press the Talk button. 16. PoC Client sends TB Request 17. Test tools sends TB Granted 18. PoC Client sends RTP media on UDP port for session C 19. Test Tool prompts the User to release the Talk button, 20. Test Tool send TB Taken, causing PoC Client to return to U: has_no_permission state for session C. 21. Test Tool prompts the User to select session B and press the Talk button. 22. PoC Client sends TB Request 23. Test tools sends TB Granted 24. PoC Client sends RTP media on UDP port for session B 25. Test Tool prompts the User to release the Talk button, 26 Test Tool send TB Taken, causing PoC Client to return to U: has_no_permission state for session B.

Pass Criteria	10. TB Request sent by PoC Client. 12. RTP media sent by PoC Client on UDP port for session A 16. TB Request sent by PoC Client 18. RTP media sent by PoC Client on UDP port for session C 22. TB Request sent by PoC Client 24. RTP media sent by PoC Client on UDP port for session B

6.3.6 Codecs

6.4 Talker Identification

6.4.1 PoC-1.0-con-C-0551 – Talker identification (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0551
Test Object	PoC Client
Test Case Description	Check that when receiving RTP media packets, the PoC Client is able to identify a talker, even in the absence of a TBCP Talk Burst Taken message. The client achieves this by collecting information about the other Participants, their identities and the SSRC identifiers used by their PoC Clients in the PoC Session, and mapping them to the identifier in RTP Media packets.
Specification Reference	[OMA-PoC-UP] 8.2, 6.2.5.2.3
SCR Reference	PoC_UserPlaneV1-UID-C-001, PoC_UserPlaneV1-UID-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	PoC Client supports talker identification. A PoC session has been established using the appropriate signalling protocols, but there is no active talker. Client is in the state U: has no permission, and its indicators are consistent with this (showing no talker, no talk permission).
Test Procedure	1. Test Tool sends Talk Burst Taken message for “User A”. This includes a URI of [PublicFriendID1] a Nickname of “Art A” an (arbitrary) SSRC Id of 111234 to uniquely identify “User A” 2. Test tool send RTP media packets, using the SSRC Id for User A. 3a. PoC Client displays identity of the user that has been granted talk permission. 3b. Test Tool prompts PoC User to check that talker identity is displayed. 4. Test Tool sends Talk Burst Idle message. 5. PoC Client may optionally send a RTCP RR. 6. Test Tool sends Talk Burst Taken message for “user B”. This includes a URI of [PublicFriendID2] a Nickname of “Bill B” an (arbitrary) SSRC Id of 222345 to uniquely identify “User B” 7. Test tool send RTP media packets, using the SSRC Id for User B.

	8a. PoC Client displays identity of the user that has been granted talk permission. 8b. Test Tool prompts PoC User to check that talker identity is displayed. 9. Test Tool sends Talk Burst Idle message. 10. PoC Client may optionally send a RTCP RR. 11. Test Tool sends Talk Burst Taken message for "User C". This includes a URI of [PublicFriendID3] a Nickname of "Charlie C" an (arbitrary) SSRC Id of 333456 is to uniquely identify "User C" 12. Test tool send RTP media packets, using the SSRC Id for "User C". 13a. PoC Client displays identity of the user that has been granted talk permission. 13b. Test Tool prompts PoC User to check that talker identity is displayed. 14. Test Tool sends Talk Burst Idle message. 15. PoC Client may optionally send a RTCP RR. 16. Test Tool does not send at Talk Burst Taken message but proceeds by sending RTP media packets, using the SSRC Id 111234, that is the Id for "User A" 17a. PoC Client notes the SSRC Id and maps it to the stored URI and nickname of the User. It displays identity of the user that is talking. 17b. Test Tool prompts PoC User to check that talker identity is displayed. 18. Test Tool sends Talk Burst Idle message. 19. PoC Client may optionally send a RTCP RR.
Pass Criteria	3. The PoC Client correctly displays the identity of User A 8. The PoC Client correctly displays the identity of User B 13. The PoC Client correctly displays the identity of User C 17. The PoC Client correctly displays the identity of User A

6.5 Timers

6.5.1 T10 - Talk Burst Release Timer

6.5.1.1 PoC-1.0-con-C-0601 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state 'U: has permission'

Test Case ID	PoC-1.0-con-C-0601
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst release timer (T10) within the "PoC Client state transition diagram for basic operation", when the release request is received in the 'U: has permission' state. Transition(s) tested: 'U: has permission' -> 'U: pending TB_release' -> 'U: has no permission' -> 'U: pending TB_request'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.4.2, 6.2.5.5
SCR Reference	PoC UserPlaneV1-UTI-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0601
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T10 has been supplied as a PIXIT value by manufacturer.
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC User releases permission to speak. 6. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state (Time T1 noted). 7. PoC Client sends TB_Release message a further (N-1) times (Time T2 noted when 'N'th message received). 8. PoC Client enters 'U: has no permission' state. 9. PoC User requests permission to speak. 10. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	4. RTP Media packet received from PoC Client 6. TB_Release received from PoC Client (Includes sequence number of last RTP Media packet or sequence number ignore field set to 1) 7a. A further (N-1) TB_Release messages are received and the time period (T2-T1) is less than 6 seconds. 7b. No media packets received from PoC Client for time period T1 to T2. 7c. TB_Release messages received from PoC Client include the SSRC of the PoC Client and include the sequence number of last RTP Media

	packet or sequence number ignore field set to 1. 10. TB_Request received from POC Client

6.5.1.2 PoC-1.0-con-C-0602 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state 'U: pending TB_Revoke'

Test Case ID	PoC-1.0-con-C-0602
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst release timer (T10) within the "PoC Client state transition diagram for basic operation" , when the release request is received in the 'U: pending TB_Revoke' state. Transition(s) tested: 'U: has permission' -> 'U: pending TB_Revoke' -> 'U: pending TB_release' -> 'U: has no permission' -> 'U: pending TB_request'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.6.5, 6.2.5.5
SCR Reference	PoC UserPlaneV1-UTI-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0602
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T10 has been supplied as a PIXIT value by manufacturer.
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC Client receives TB_Revoke message and enters 'U: pending TB_Revoke' state. 6. After TBD seconds PoC User releases permission to speak. 7. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state (Time T1 noted). 8. PoC Client sends TB_Release message a further (N-1) times (Time T2 noted when 'N'th message received). 9. PoC Client enters 'U: has no permission' state. 109. PoC User requests permission to speak. 11. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	4. RTP Media packet received from PoC Client. 5. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 6. At least 3 media packets are sent by PoC Client after Talk burst Revoke indication given to the PoC User. 7. TB_Release received from PoC Client which includes the SSRC of the PoC Client and the sequence number of last RTP Media packet or the sequence number ignore field set to 1. 8a. A further (N-1) TB_Release messages are received and the time period (T2-T1) is less than 6 seconds. 8b. No media packets received from PoC Client for time period T1 to T2.

	8c. TB_Release messages received from PoC Client include the SSRC of the PoC Client and include the sequence number of last RTP Media packet or sequence number ignore field set to 1. 11. TB_Request received from POC Client.

6.5.1.3 PoC-1.0-con-C-0603 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state 'U: pending TB_Request' (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0603
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst release timer (T10) within the "PoC Client state transition diagram for basic operation", when the release request is received in the 'U: pending TB_Request' state. Transition(s) tested: 'U: has no permission' -> 'U: pending TB_Request' -> 'U: pending TB_Release' -> 'U: has no permission' -> 'U: pending TB_request'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.3.7, 6.2.5.5
SCR Reference	PoC UserPlaneV1-UTI-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0603
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T10 has been supplied as a PIXIT value by manufacturer. PoC Client set to Auto Answer Mode.
Test Procedure	1. The PoC Client receives a SIP INVITE containing the P-Alerting-Mode header with value "Auto". 2. PoC Client sends SIP 200 "OK" response and enters state 'U: has no permission'. 3. After TBD seconds PoC User requests permission to speak. 4. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 5. PoC User releases permission to speak. 6. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state (Time T1 noted). 7. PoC Client sends TB_Release message a further (N-1) times (Time T2 noted when 'N'th message received). 8. PoC Client enters 'U: has no permission' state. 9. PoC User requests permission to speak. 10. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	2. SIP 200 "OK" received from PoC Client 3. No RTP Media packets received from PoC Client for a period of TBD seconds. 4. TB_Request message received from PoC Client 6. TB_Release received from PoC Client (Includes the sequence number ignore field set to 1) 7a. A further (N-1) TB_Release messages are received and the time period (T2-T1) is less than 6 seconds. 7b. No media packets received from PoC Client for time period T1 to T2. 7c. TB_Release messages received from PoC Client include the SSRC of the PoC Client and include the sequence number of last RTP Media packet or sequence number ignore field set to 1.

	10. TB_Request received from POC Client

6.5.2 T11 - Talk Burst Request Timer

6.5.2.1 PoC-1.0-con-C-0611 –Talk Burst Request Timer (T11) / Basic Operation STD / Support from 'start-stop'

Test Case ID	PoC-1.0-con-C-0611
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst request timer (T11) within the "PoC Client state transition diagram for basic operation" when originating a PoC session. Transition(s) tested: 'start-stop' -> 'U: pending TB_request' -> 'U: pending TB_request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.1.1, 6.2.5.3.1, 6.2.5.3.4
SCR Reference	PoC UserPlaneV1-UTI-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0611
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T11 has been supplied as a PIXIT value by manufacturer.
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives SIP 200 "OK" response that does not contain the tb_granted parameter. 3. PoC Client starts timer T11 and enters state 'U: pending TB_Request'. 4. PoC Client sends TB_Request, re-starts timer T11 and remains in 'U: pending TB_request' state. 5. PoC Client receives TB_Granted message, stops Timer T11, enters 'U: has permission' state and starts to send media packets.
Pass Criteria	4. TB_Request message received from PoC Client no more than 6 seconds after SIP 200 "OK" response sent to PoC Client.. 5a. PoC Client sends an RTP Media packet. 5b. PoC Client does not send a TB_Request message during the 6 seconds after the TB_Granted is sent to the PoC Client.

6.5.2.2 PoC-1.0-con-C-0612 –Talk Burst Request Timer (T11) / Basic Operation STD / TB_Request repeats (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0612
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst request timer (T11) within the "PoC Client state transition diagram for basic operation" in order to repeat the TB_request 'N' times as required. Transition(s) tested: 'U: has no permission' -> 'U: pending TB_request' -> 'U: has no permission' -> 'U: pending TB_request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.1.2, 6.2.5.2.4, 6.2.5.3.4, 6.2.5.3.5
SCR Reference	PoC UserPlaneV1-UTI-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0612
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T11 has been supplied as a PIXIT value by manufacturer. PoC Client set to Auto Answer Mode.
Test Procedure	1. The PoC Client receives a SIP INVITE containing the P-Alerting-Mode header with value "Auto". 2. PoC Client sends SIP 200 "OK" response and enters state 'U: has no permission'. 3. After TBD seconds PoC User requests permission to speak. 4. PoC Client sends TB_Request and enters 'U: pending TB_Request' state (Time T1 noted). 5. PoC Client sends TB_Request message a further (N-1) times (Time T2 noted when 'N'th message received). 6. PoC Client enters 'U: has no permission' state. 7. After TBD seconds PoC User requests permission to speak. 8. PoC Client sends TB_Request and enters 'U: pending TB_Request' state.
Pass Criteria	2. SIP 200 "OK" received from PoC Client 3. No RTP Media packets received from PoC Client for a period of TBD seconds. 4. TB_Request message received from PoC Client 5. A further (N-1) TB_Request messages are received and the time period (T2-T1) is less than 6 seconds. 6. No media packets received from PoC Client for the time period T1 to T2. 7. No RTP Media packets received from PoC Client for a further period of TBD seconds. 8. TB_Request received from POC Client

6.5.2.3 PoC-1.0-con-C-0613 – Talk Burst Request Timer (T11) / Basic Operation STD / T11 Stop conditions (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0613
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the talk burst request timer (T11) within the "PoC Client state transition diagram for basic operation" when entering 'U: pending TB_Request' state from 'U: has no permission' and stops the timer when TB_Taken messages, TB_Deny messages and RTP Media packets are received. Transition(s) tested: 'U: has no permission' -> 'U: pending TB_request' -> 'U: has no permission' -> 'U: pending TB_request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 9.3, 6.2.5.1.2, 6.2.5.2.4, 6.2.5.3.1 - 6.2.5.3.4, 6.2.5.3.6
SCR Reference	PoC UserPlaneV1-UTI-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0613
Preconditions	PoC Client is registered for PoC service with SIP/IP core The repeat value "N" for Timer T11 has been supplied as a PIXIT value by manufacturer. PoC Client set to Auto Answer Mode.
Test Procedure	1. The PoC Client receives a SIP INVITE containing the P-Alerting-Mode header with value "Auto". 2. PoC Client sends SIP 200 "OK" response and enters state 'U: has no permission'. 3. PoC User requests permission to speak. 4. PoC Client sends TB_Request, starts Timer T11 and enters 'U: pending TB_Request' state. 5. PoC Client sends TB_Request, re-starts timer T11 and remains in 'U: pending TB_request' state. 6. PoC Client receives a TB_Taken message which requires an acknowledgement. 7. PoC Client sends a Talk Burst Acknowledgement message, stops timer T11 and enters 'U: has no permission' state. 8. After 10 seconds PoC User requests permission to speak. 9. PoC Client sends TB_Request, starts Timer T11 and enters 'U: pending TB_Request' state. 10. PoC Client sends TB_Request, re-starts timer T11 and remains in 'U: pending TB_request' state. 11. PoC Client receives a TB_Deny message. 12. PoC Client stops timer T11 and enters 'U: has no permission' state. 13. After 10 seconds PoC User requests permission to speak. . 14. PoC Client sends TB_Request, starts Timer T11 and enters 'U: pending TB_Request' state. 15. PoC Client sends TB_Request, re-starts timer T11 and remains in 'U: pending TB_request' state. 16. PoC Client receives an RTP Media packet. 17. PoC Client stops timer T11, renders the received media packet and

	enters 'U: has no permission' state. 18. PoC Client receives 3 further RTP Media Packets at 3 second intervals. 19. 10 seconds after first RTP Media Packet sent the PoC User requests permission to speak. 20. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 21. PoC Client receives TB_Granted message, stops Timer T11, enters 'U: has permission' state and starts to send media packets.
Pass Criteria	2. SIP 200 "OK" received from PoC Client 4. TB_Request message received from PoC Client 5. TB_Request message received from PoC Client 6. Talk Burst Taken notification provided to PoC User 7. Talk Burst acknowledgement message received from PoC Client. 8. PoC Client does not send a TB_Request message during the 6 seconds after the Talk Burst Acknowledgement is received. 9. TB_Request message received from PoC Client. 10. TB_Request message received from PoC Client 11. Talk Burst Deny notification provided to PoC User 13. PoC Client does not send a TB_Request message during the 6 seconds after the TB_Deny message is sent to the PoC Client. 14. TB_Request message received from PoC Client. 15. TB_Request message received from PoC Client. 19. PoC Client does not send a TB_Request message during the 6 seconds after the first RTP Media Packet is sent to the PoC Client. 20. TB_Request message received from PoC Client. 21a. PoC Client sends an RTP Media packet. 21b. PoC Client does not send a TB_Request message during the 6 seconds after the TB_Granted is sent to the PoC Client.

6.5.3 T12 - Talk Burst Revoke Timer

6.5.3.1 PoC-1.0-con-C-0621 – Talk Burst Revoke Timer (T12) / Basic Operation STD / Support from state 'U: has permission' (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0621
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for the talk burst revoke timer (T12) within the "PoC Client state transition diagram for basic operation", when TB_Revoke is received in the state 'U: has permission'. Transition(s) tested: 'U: has permission' -> 'U: pending TB_Revoke' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.4, 6.2.5.3.1, 6.2.5.4.3, 6.2.5.5.3 – 6.2.5.5.5
SCR Reference	PoC UserPlaneV1-UTI-C-003, PoC UserPlaneV1- UTB-C-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0621
Preconditions	PoC Client is registered for PoC service with SIP/IP core
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC Client receives TB_Revoke message containing a 'retry after timer' value of 25 seconds, starts Timer T12, enters 'U: pending TB_Revoke' state and presents a talk burst revoked notification to the PoC User. 6. PoC Client receives 'TB_Idle' message and enters 'U: has no permission' state. 7. PoC User requests permission to speak 10 seconds after presentation of the talk burst revoke notification. 8. PoC Client remains in 'U: has no permission' state and does not send TB_Request. 9. PoC User requests permission to speak again 20 seconds after presentation of the talk burst revoke notification. 10. PoC Client remains in 'U: has no permission' state and does not send TB_Request. 11. PoC User requests permission to speak again 30 seconds after presentation of the talk burst revoke notification. 12. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 13. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets.
Pass Criteria	4. RTP Media packet received from PoC Client 5. Notification provided to PoC User that permission to send Talk Bursts

	has been revoked. 6. Talk burst idle notification provided to PoC User 8. PoC Client does not send TB_Request message. 10. PoC Client does not send TB_Request message. 12. TB_Request received from POC Client 13a. RTP Media packet received from PoC Client 13b. Talk burst granted notification provided to PoC User

6.5.3.2 PoC-1.0-con-C-0622 – Talk Burst Revoke Timer (T12) / Basic Operation STD / Support from state 'U: pending TB_Release' (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0622
Test Object	PoC Client
Test Case Description	Verify that the PoC Client correctly supports the transitions for the talk burst revoke timer (T12) within the "PoC Client state transition diagram for basic operation", when TB_Revoke is received in the state 'U: pending TB_Release'. Transition(s) tested: 'U: has permission' -> 'U: pending TB_Release' -> 'U: has no permission' -> 'U: pending TB_Request' -> 'U: has permission'.
Specification Reference	[OMA-PoC-UP] 6.2.5.2.4, 6.2.5.3.1, 6.2.5.4.2, 6.2.5.5.3 – 6.2.5.5.6
SCR Reference	PoC UserPlaneV1-UTI-C-003, PoC UserPlaneV1- UTB-C-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0622
Preconditions	PoC Client is registered for PoC service with SIP/IP core
Test Procedure	1. The PoC User originates an On-Demand 1-1 PoC session. 2. PoC Client receives the SIP 200 "OK" response. The 'tb_granted'.parameter is included and set to 1, if tb_granted=1 is set in the SIP INVITE message from the PoC Client. 3. If the PoC Client had not set the 'tb_granted' parameter to 1 in the SIP INVITE request, the Client receives a TB_Granted message. 4. PoC Client enters state 'U: has permission' and starts to send media packets. 5. PoC User releases permission to speak. 6. PoC Client sends TB_Release message and enters 'U: pending TB_Release' state. 7. PoC Client receives TB_Revoke message containing a 'retry after timer' value of 30 seconds, starts Timer T12, remains in 'U: pending TB_Release' state and presents a talk burst revoked notification to the PoC User. 8. PoC Client receives 'TB_Idle' message and enters 'U: has no permission' state. 9. PoC User requests permission to speak 15 seconds after presentation of the talk burst revoke notification. 10. PoC Client remains in 'U: has no permission' state and does not send TB_Request. 11. PoC User requests permission to speak again 25 seconds after presentation of the talk burst revoke notification. 12. PoC Client remains in 'U: has no permission' state and does not send TB_Request. 13. PoC User requests permission to speak again 35 seconds after presentation of the talk burst revoke notification. 14. PoC Client sends TB_Request and enters 'U: pending TB_Request' state. 15. PoC Client receives TB_Granted message, enters 'U: has permission' state and starts to send media packets.
Pass Criteria	4. RTP Media packet received from PoC Client

	5. Notification provided to PoC User that permission to send Talk Bursts has been revoked. 6. Talk burst idle notification provided to PoC User 10. PoC Client does not send TB_Request message. 12. PoC Client does not send TB_Request message. 14. TB_Request received from POC Client 15a. RTP Media packet received from PoC Client 15b. Talk burst granted notification provided to PoC User

6.6 Talk Burst Control messages

6.6.1 PoC-1.0-con-C-0651 – Sending TB priority request (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0651
Test Object	PoC Client
Test Case Description	Verify that the PoC client is able to request a non-standard talk priority, and that Option subfields are correctly composed.
Specification Reference	[OMA-PoC-UP] 6.5.2.1
SCR Reference	PoC_UserPlaneV1-UME-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client supports queuing o PoC Client is in 'U: has no permission' state
Test Procedure	1. PoC User initiates PoC Client to change the normal priority of Talk Burst Request to one level higher than normal priority. 2. PoC User requests permission to speak 3. PoC Client sends TBCP Talk Burst Request message
Pass Criteria	3. The Talk Burst Request message includes the Option ID subfield contains value 1, the Option Length field contains value 3 and the Option Value contains a single byte Talk Burst priority level with one level higher than normal

6.6.2 PoC-1.0-con-C-0652 – Sending TB priority request timestamp (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0652
Test Object	PoC Client
Test Case Description	Verify that the PoC client is able to influence queuing by applying a timestamp to Talk Burst Requests, and verify that the Option subfields are correctly composed.

Specification Reference	[OMA-PoC-UP] 6.5.2.2
SCR Reference	PoC_UserPlaneV1-UME-C-005
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client supports queuing and time stamping o PoC Client is in 'U: has no permission' state
Test Procedure	1. PoC User sets PoC Client to send Talk Burst Request with time stamp option. 2. PoC User requests permission to speak 3. PoC Client sends TBCP Talk Burst Request message 4. PoC Client receives Talk Burst Request Queue Status message.
Pass Criteria	3a. The Talk Burst Request message includes time stamp option

6.6.3 PoC-1.0-con-C-0653 – Receive TBCP Talk Burst Granted

Test Case ID	PoC-1.0-con-C-0653
Test Object	PoC Client
Test Case Description	Verify that the PoC Client has been granted permission to send a Talk Burst after the reception of the TBCP Talk Burst Granted message.
Specification Reference	[OMA-PoC-UP] 6.5, 6.1, 6.5.3
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-006
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client is in 'U: pending TB request' state
Test Procedure	1. PoC Client receives TBCP Talk Burst Granted message based on RTCP Application Packets (APP) using the content defined in UP, 6.5.3, Table 3. 2. PoC User requests permission to speak 3. PoC Client sends TBCP Talk Burst Request message
Pass Criteria	1a. PoC Client receives TBCP Talk Burst Granted message and sends Talk Burst Granted notification to PoC User. 3. PoC Client sends RTP media

6.6.4 PoC-1.0-con-C-0654 – Receive TBCP Talk Burst Deny

Test Case ID	PoC-1.0-con-C-0654
Test Object	PoC Client
Test Case Description	Verify that if a TBCP Talk Burst Deny message is sent from the PoC Server to the PoC Client to inform it that permission to send a Talk Burst was rejected, the message including the reason is interpreted by the Client.
Specification Reference	[OMA-PoC-UP] 6.5, 6.1, 6.5.4.
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-007
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client is in 'U: pending TB request' state
Test Procedure	1. PoC Client receives TBCP Talk Burst Deny message based on RTCP Application Packets (APP) using the content defined in UP, 6.5.4, Table 4. The message includes the Reason Code and an appropriate Reason Phrase. 2. PoC User requests permission to speak
Pass Criteria	1a. PoC Client sends Talk Burst Deny notification to PoC User. 2. PoC Client does not send any RTP media packets

6.6.5 PoC-1.0-con-C-0655 – Receive TBCP Talk Burst Idle (Notification Optional)

Test Case ID	PoC-1.0-con-C-0655
Test Object	PoC Client
Test Case Description	Verify that PoC Client gives a correct notification to the PoC User after the TBCP Talk Burst Idle message is received.

Specification Reference	[OMA-PoC-UP] 6.5, 6.1, 6.5.3
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-009
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC User has ongoing PoC session o PoC User is in 'U has no permission' state
Test Procedure	1. PoC Client receives TBCP Talk Burst Idle message based on RTCP Application Packets (APP) using the content defined in UP, 6.5.6, Table 6. 2. PoC User presses PoC button to request permission to speak
Pass Criteria	1a. PoC Client sends Talk Burst Idle notification to PoC User. (optional) 1b. PoC Client stops to send RTP Media packets. 2a. PoC Client sends TBCP Talk Burst Request message

6.6.6 PoC-1.0-con-C-0656 – Receive TBCP Talk Burst Taken

Test Case ID	PoC-1.0-con-C-0656
Test Object	PoC Client
Test Case Description	Verify that a requesting PoC Clientcorrectly acts upon reception of TBCP Talk Burst Taken message
Specification Reference	[OMA-PoC-UP] 6.5, 6.1, 6.5.7
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-010
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.
Preconditions	o PoC Client is in 'U pending TB request' state
Test Procedure	1. PoC User requests permission to speak 2. PoC Client receives TBCP Talk Burst Taken message based on RTCP Application Packets (APP) using the content defined in UP, 6.5.7, Table 7. SSRC field contains name of PoC User that has been granted permission to send Talk Burst. Also the TBCP Talk Burst Acknowledgement message is expected
Pass Criteria	2a. PoC Client sends TBCP Talk Burst Acknowledgement message 2b. Upon reception of TBCP Talk Burst Taken message PoC Client sends Talk Burst Taken notification to the PoC User

6.6.7 PoC-1.0-con-C-0657– Receive TBCP Talk Burst Revoke/PoC User Releases during Grace Period

Test Case ID	PoC-1.0-con-C-0657
Test Object	PoC Client
Test Case Description	Verify that the PoC Client with permission to send a Talk Burst stops sending Talk Bursts after receiving the TBCP Talk Burst Revoke message.
Specification Reference	[OMA-PoC-UP] 6.5, 6.1, 6.5.8.
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-011
Tool	PoC Conformance Tool
Test code	Validated test code for this test case.

Preconditions	o PoC Client is in 'U: has permission' state o "Stop Talking Timer T2" is set to default value as specified in UP 9.1 o "Stop Talking Grace Timer T3" is set to default value as specified in UP 9.1
Test Procedure	1. PoC Client sends RTP media packets 2. Timer T2 expires and PoC Client receives TBCP Talk Burst Revoke message. The TB Revoke message is based on RTCP Application Packets (APP) using the content defined in UP, 6.5.8, Table 8. The message includes the Reason Code (Talk Burst too long). 3. "Stop Talking Grace Timer" T3 starts (gives PoC User time to end Talk Burst gracefully). 4. PoC User releases PoC button. 5. PoC Client sends last RTP media packet. 6. PoC Client sends Talk Burst Release message. 7. PoC Client receives a TBCP Talk Burst Idle message.
Pass Criteria	3a. Upon reception of TBCP Talk Burst Revoke message PoC Client sends Talk Burst Revoke Notification 3b. PoC Client may display the Reason Code to PoC User 6. TBCP Talk Burst Releasemessage is received before Timer T3 expires 7. PoC User receives Talk Burst Idle Notification

6.6.8 PoC-1.0-con-C-0658 – Receive TBCP Talk Burst Revoke/PoC User Releases after Grace Period Expires

Test Case ID	PoC-1.0-con-C-0658
Test Object	PoC Client
Test Case Description	Verify that the PoC Client with permission to send a Talk Bursts, will send a Talk Burst Release message before the TB Revoke grace period expires even though the PoC button has not yet been released by the PoC User.
Specification Reference	[OMA-PoC-UP] 6.1, 6.5.8, 6.2.5.4.3, 6.2.5.6.5.
SCR Reference	PoC UserPlaneV1-UME-C-001, PoC UserPlaneV1-UME-C-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0658
Preconditions	o PoC Client is in 'U: has permission' state o "Allowed number of retransmissions of the TBCP Talk Burst Revoke message" is set to the default value as specified in the entry for Timer T8 in Table 14 in [OMA-PoC-UP] clause 9.1
Test Procedure	1. PoC Client sends an RTP media packet (Test Tool starts Timer T2). 2. PoC Client continues sending RTP media packets.3. Timer T2 expires 4. PoC Client receives TBCP Talk Burst Revoke message. The TB Revoke message is based on RTCP Application Packets (APP) using the content defined in UP, 6.5.8, Table 8. The message includes the Reason Code (Talk Burst too long). 5. Test Tool starts T8 "Talk Burst Revoke timer" 6. Test tool waits until one of the following three events occurs: i. If T8 expires then continue from step 7, else if

	ii. PoC Client sends a Talk Burst Release message then continue from step 8, else if iii. PoC Client sends an RTP media packet then continue from step 6. 7. If the "Allowed number of retransmissions of the TBCP Talk Burst Revoke message" has not been passed then continue from step 4, else continue from step 8. 8. PoC Client receives a TBCP Talk Burst Idle message 9. The PoC Client presents Talk Burst Idle Notification to PoC User. 10. The PoC User releases the PoC button.
Pass Criteria	4. Upon reception of TBCP Talk Burst Revoke message PoC Client presents Talk Burst Revoke Notification (optionally displayed with Reason Code) to PoC User 8. PoC Client has sent a Talk Burst Release message (at step 6) prior to the test procedure reaching step 8. 9. PoC User receives TBCP Talk Burst Idle Notification

7. XDM Client

7.1 XDM Core Procedures

7.1.1 XDM Document Management

7.1.1.1 PoC-1.0-con-C-0701 - XDM URI Construction for Document Retrieval

Test Case ID	PoC-1.0-con-C-0701
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client constructs a valid URI and follows the required procedures to request retrieval of a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.1 [OMA-XDM-Core] 6.1.1.2.3 [XCAP] 7.3 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-001, XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0701
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. The PoC Group document MyPoCGroups.xml exists in the "Users" tree for PoC User 1 within the test tool. PoC XDM Client does not hold a local copy of the PoC Group document MyPoCGroups.xml.
Test Procedure	1 The PoC User requests retrievial of the PoC Group document named "MyPoCGroups.xml". 2. PoC XDM Client issues a GET request. 3. PoC XDM Client receives 200 OK response.
Pass Criteria	2a. The XCAP URI used in the GET request shall be "[XCAP Root URI1]/org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml". 2b. The hostname of [XCAP Root URI1] should resolve to the address of the Aggregation Proxy. 2c. The [XUI1] path segment corresponds to the Public SIP URI resulting from registration with the SIP/IP core.

7.1.1.2 PoC-1.0-con-C-0702 - Create or Replace a Document

Test Case ID	PoC-1.0-con-C-0702
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for creating a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.1 [XCAP] 7.1 [XCAP] 7 [OMA-XDM-Core] 6.1.1.2 [OMA-PoC-XDM] 5.1.4
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0702
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC User 1 defines PoC Group A, with PoC Friend 1 and PoC Friend 2 as members in a PoC Group document named "MyPoCGroups.xml". 2. PoC User 1 saves the PoC Group document and the PoC XDM Client issues a PUT request to store the PoC Group document. 3. PoC XDM client receives 200 OK response.
Pass Criteria	2a. The XCAP URI used in the PUT request shall be "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml". 2b. The MIME type for the PoC Group document, used in the PUT request, shall be “application/vnd.oma.poc.groups+xml”. 2c. The PUT request shall be idempotent.

7.1.1.3 PoC-1.0-con-C-0703 - Delete a Document

Test Case ID	PoC-1.0-con-C-0703
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for deleting a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.2 [XCAP] 7.2 [XCAP] 7 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0703
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC User 1 defines PoC Group A, with PoC Friend 1 and PoC Friend 2

	as members in a PoC Group document named "MyPoCGroups.xml". 2. PoC User 1 saves the PoC Group document and the PoC XDM Client issues a PUT request to store the PoC Group document. 3. PoC XDM client receives 200 OK response. 4. PoC User 1 requests deletion of PoC Group document MyPoCGroups.xml 5. PoC XDM Client issues a DELETE request. 6. PoC XDM client receives 200 OK response.
Pass Criteria	2. The XCAP URI used in the PUT request shall be "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml". 5a. The XCAP URI used in the DELETE request shall be "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml". 5b. The DELETE request shall be idempotent.

7.1.1.4 PoC-1.0-con-C-0704 - Create an Element

Test Case ID	PoC-1.0-con-C-0704
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for creating an <invite-members>element in a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.4 [XCAP] 7.4 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0704
Preconditions	PoC XDM Client has the capability to add individual elements to existing PoC Group documents (as opposed to replacing the whole document). PoC XDM Client has the capability to add an <invite-members> element to an existing <list-service> element within a PoC Group document. PoC XDM Client is configured, if necessary, to add an <invite-members> element to an existing <list-service> element within a PoC Group document (as opposed to replacing the whole document). PoC XDM Client does not hold a local copy of the PoC Group document MyPoCGroups.xml. The PoC Group document MyPoCGroups.xml exists in the “Users” tree for PoC User 1 within the test tool. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC XDM client retrieves PoC Group document MyPoCGroups.xml from the test tool. The document contains one <list-service> element, defining PoC Group A, which does not contain an <invite-members> element. i.e. the PoC Group is by default a Chat PoC Group. 2. The PoC User requests that the PoC Group be modified such that PoC Group A becomes a Pre-arranged PoC Group

	3. PoC XDM Client issues a PUT request to add the <invite-members> element to the PoC Group document stored in the test tool . 4. PoC XDM client receives 200 OK response.
Pass Criteria	3a. The XCAP URI used in the PUT request shall be "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/PoCGroupA.xml/~~/poc-groups/group/list-service/invite-members" 3b. The MIME content type for the PUT request, shall be "application/xcap-el+xml " 3c. The XML document contained in the PUT request at step 3 shall comprise: <?xml version="1.0" encoding="UTF-8"?><invite-members>true</invite-members>

7.1.1.5 PoC-1.0-con-C-0705 - Replace an Element

Test Case ID	PoC-1.0-con-C-0705
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for replacing an <invite-members>element in a PoC Group document
Specification Reference	1. [OMA-XDM-Core] 6.1.1.2.4 2. [XCAP] 7.4 3. [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0705
Preconditions	PoC XDM Client has the capability to replace individual elements in existing PoC Group documents (as opposed to replacing the whole document). PoC XDM Client has the capability to replace an <invite-members> element in a PoC Group document (as opposed replacing the whole document) PoC XDM Client is configured, if necessary, to replace an <invite-members> element in a PoC Group document (as opposed to replacing the whole document). PoC XDM Client does not hold a local copy of the PoC Group document MyPoCGroups.xml. The PoC Group document MyPoCGroups.xml exists in the “Users” tree for PoC User 1 within the test tool. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC XDM client retrieves PoC Group document MyPoCGroups.xml from the test tool. The document contains one <list-service> element, defining PoC Group A, which contains an <invite-members> element with value "false" representing a Chat PoC Group. 2. The PoC User requests that the PoC Group be modified such that PoC Group A is changed to a Pre-arranged PoC Group. 3. PoC XDM Client issues a PUT request to replace the <invite-members> element in the PoC Group document stored in the test tool.

	4. PoC XDM client receives 200 OK response.
Pass Criteria	3a. The XCAP URI used in the PUT request shall be "[XCAP Root URI1]/org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml/~~/poc-groups/group/list-service/invite-members" 3b. The MIME content type for the PUT request shall be "application/xcap-el+xml " 3c. The XML document contained in the PUT request at step 3 shall comprise: <?xml version="1.0" encoding="UTF-8"?><invite-members>true</invite-members>

7.1.1.6 PoC-1.0-con-C-0706 - Delete an Element

Test Case ID	PoC-1.0-con-C-0706
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for deleting an <entry> element from a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.5 [XCAP] 7.5 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0706
Preconditions	PoC XDM Client has the capability to delete individual elements in existing PoC Group documents (as opposed to replacing the whole document). PoC XDM Client has the capability to delete an <entry> element from a PoC Group (as opposed replacing the whole document) PoC XDM Client is configured, if necessary, to delete <entry> elements from a PoC Group (as opposed to replacing the whole document). PoC XDM Client does not hold a local copy of the PoC Group document MyPoCGroups.xml. The PoC Group document MyPoCGroups.xml exists in the “Users” tree for PoC User 1 within the test tool. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC XDM client retrieves PoC Group document MyPoCGroups.xml from the test tool. The document contains one <list-service> element, defining PoC Group A, which contains a list element with three <entry> child elements for PoC Friend 1, PoC Friend 2 and PoC Friend 3. 2. The PoC User requests that the PoC Group be modified such that PoC Friend 3 is deleted from PoC Group A. 3. PoC XDM Client issues an HTTP DELETE request to remove the <entry> element for PoC Friend 3 from the PoC Group document stored in the test tool. 4. PoC XDM client receives 200 OK response.
Pass Criteria	3a. The document selector of the XCAP URI used in the DELETE request

	shall be "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/MyPoCGroups.xml". 3b. The node selector of the XCAP URI used in the DELETE request shall uniquely identify the <entry> element for PoC Friend 3. 3c. The DELETE request shall be idempotent.

7.1.1.7 PoC-1.0-con-C-0707 - Retrieve an Element

Test Case ID	PoC-1.0-con-C-0707
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for retrieving an element (or elements) from a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.6 [XCAP] 7.6 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0707
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. The PoC XDM Client supports the XML Documents Directory application usage. In particular, the PoC XDM Client has the capability to request retrieval, from its XML Documents Directory document, those elements comprising the list of its URI lists as stored in the Shared XDMS. The XML Documents Directory document “directory.xml” exists in the “Users” tree for PoC User 1 within the test tool. The document contains <folder> elements describing a URI List document “MyURILists.xml” stored in the Shared XDMS and a PoC Group document “MyPoCGroups.xml” stored in the PoC XDMS. All local information concerning the URI lists of PoC User 1 have been deleted from the PoC XDM Client.
Test Procedure	1. PoC User 1 invokes the necessary action to cause the PoC XDM client to retrieve just those elements from the XCAP directory corresponding to his URI lists. 2. The PoC XDM client issues an HTTP GET request. 3. PoC XDM client receives 200 OK response.
Pass Criteria	2a. The XCAP URI used in the GET request shall be "[XCAP Root URI1]/ org.openmobilealliance.xcap-directory/users/[XUI1]/directory.xml/~~/xcap-directory/folder[@auid=”resource-lists”]"

7.1.1.8 PoC-1.0-con-C-0708 - Replace an Attribute

Test Case ID	PoC-1.0-con-C-0708
Test Object	PoC XDM Client (UE)

Test Case Description	Verify that the PoC XDM client follows the required procedures for replacing the "uri" attribute of an <entry> element in a PoC Group document
Specification Reference	[OMA-XDM-Core] 6.1.1.2.7 [XCAP] 7.7 [OMA-XDM-Core] 6.1.1.2
SCR Reference	XDM-XDMC-C-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0708
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. PoC XDM Client has the capability to replace the "uri" attribute of an <entry> element in a PoC Group document (as opposed replacing the whole element or document) PoC XDM Client is configured, if necessary, to replace the "uri" attribute of an <entry> elements in a PoC Group (as opposed to replacing the whole element or document). PoC XDM Client does not hold a local copy of the PoC Group document MyPoCGroups.xml. The PoC Group document MyPoCGroups.xml exists in the “Users” tree for PoC User 1 within the test tool. The document contains one <list-service> element, defining PoC Group A, which contains a list element, with three <entry> child elements for PoC Friend 1, PoC Friend 2 and PoC Friend 3. The second <entry> element has an "uri" attribute value [PublicFriendID2] and a <display-name> element with value "PoC Friend 2".
Test Procedure	1. PoC XDM client issues GET request to retrieve the PoC Group document MyPoCGroups.xml from the test tool. 2. PoC XDM client receives 200 OK response. 3. The PoC User modifies, in the XDM Client, the "uri" of PoC Friend 2 to [PublicFriendID1]. 4. PoC User requests that the PoC Group document be saved and the PoC XDM Client issues a PUT request to replace the "uri" attribute in the <entry> element for PoC Friend 2 in the PoC Group document stored in the test tool. 5. PoC XDM client receives 200 OK response.
Pass Criteria	4a. The XCAP URI used in the PUT request shall be "[XCAP Root URI1]/org.openmobilealliance.poc-groups/users/[XUI1]/PoCGroupA.xml/~~/group/list-service/list/entry[@uri="[PublicFriendID2]"]/@uri" 4b. The MIME content type for the PUT request shall be "application/xcap-att+xml " 4c. The content of the PUT request shall be “"[PublicFriendID2]"”

7.1.1.9 PoC-1.0-con-C-0709 - Support for HTTP compression in GET requests (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0709

Test Object	PoC XDM Client (UE)
Test Case Description	Verify that a PoC XDM Client correctly indicates support for HTTP compression and is able to process acceptable compressed content
Specification Reference	[OMA-XDM-Core] 6.1.1.2 [RFC2616]14.3
SCR Reference	XDM-XDMC-C-008
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0709
Preconditions	PoC XDM Client supports HTTP compression in GET requests and is configured to use it. The PoC Group document MyPoCGroups.xml exists in the "Users" tree for PoC User 1 within the test tool. The document contains one <list-service> element, with uri attribute "sip:PoCgroupA@[DNHomeA]", defining PoC Group A, which contains a list element, with three <entry> child elements for PoC Friend 1, PoC Friend 2 and PoC Friend 3. The three <entry> elements have "uri" attribute values of [PublicFriendID1], [PublicFriendID2], [PublicFriendID3] and <display-name> elements with values "PoC Friend 1", "PoC Friend 2", "PoC Friend 3" respectively. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC XDM client issues a GET request in order to retrieve PoC Group A document from the test tool. 2. PoC XDM client receives an HTTP response including the PoC Group A document in the compression encoding determined by the Accept Encoding header of the request and the rules of section 14.3 of [RFC2616]. 3. The PoC User inspects the SIP URIs and the display names for each of the three contacts in PoC Group A.
Pass Criteria	1. The GET request includes a valid "Accept-encoding" header field. 3. The SIP URIs and display names of the three contacts in PoC Group A are correct when examined by the user.

7.1.1.10 PoC-1.0-con-C-0710 - Support for HTTP compression in PUT requests (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0710
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that a PoC XDM Client correctly indicates the content encoding of a compressed HTTP PUT request and is able to repeat the request in an uncompressed manner if the server indicates that the content encoding is unacceptable
Specification Reference	[OMA-XDM-Core] 6.1.1.2 [RFC2616]14.11
SCR Reference	XDM-XDMC-C-008
Tool	PoC Conformance Tool

Test code	Validated test code for test case PoC-1.0-con-C-0710
Preconditions	PoC XDM Client supports HTTP compression in PUT requests and is configured to use it. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC User 1 defines PoC Group A, with PoC Friend 1 and PoC Friend 2 as members in an XML document named "PoCGroupA.xml". 2. PoC XDM Client issues PUT request, with compressed content, to store the PoC Group document. 3. PoC XDM client receives HTTP response with a status code of 415 (Unsupported Media Type). 4. PoC XDM Client issues PUT request, with umcompressed content, to store the PoC Group document. 5. PoC XDM client receives 200 OK response.
Pass Criteria	2. The PUT request includes a valid "Content-encoding" header field indicating a compressed encoding as per [RFC2616] section 14.11. 4. The PUT request includes a valid "Content-encoding" header field indicating no compression (or does not include a "Content-encoding" header field).

7.1.2 Subscription to XML Document Changes

7.1.2.1 PoC-1.0-con-C-0721 - Initial Subscription Request: Specific PoC Group Document (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0721
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client sends a valid SUBSCRIBE request to subscribe to changes in a specific PoC group document previously created by the PoC User.
Specification Reference	[OMA-XDM-Core] 6.1.2.1
SCR Reference	XDM-XDMC-C-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0721
Preconditions	PoC XDM client has the capability to subscribe to changes in individual specified PoC Group documents created by PoC User 1. PoC Group A and PoC Group B documents are defined within the test tool for PoC User 1. The PoC Group document has the following properties: - PoC Group A includes entries for PoC Friend 1, PoC Friend 2 and Poc Friend 3. - The XCAP URI of PoC Group A is "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/ [XUI1]/user1groupsA.xml" - The PoC Group Identity of PoC Group A (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupa@[DNHomeA]".

	The PoC Group B document has the following properties: - PoC Group B includes entries for PoC Friend 2, PoC Friend 4 and Poc Friend 5. - The XCAP URI of the PoC Group B document is "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/user1groupsB.xml" - The PoC Group Identity of PoC Group B (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupb@[DNHomeA]".
Test Procedure	1. PoC User configures the PoC XDM client in such a way as to request notification of changes to PoC Group A defined by PoC User 1 2. PoC XDM client sends a single SUBSCRIBE request. 3. PoC XDM client receives 200 OK response 4. PoC XDM client receives NOTIFY request message 5. PoC XDM client returns 200 OK response
Pass Criteria	2a. The request URI of the received SUBSCRIBE request shall be the SIP URI of PoC User 1, i.e. ”[XUI1]” 2b. The SUBSCRIBE request shall include an Event header with the following parameter values "sip-profile;profile-type=application;auid=org.openmobilealliance.poc-groups" 2c. The SUBSCRIBE request shall include a document parameter to the Event header which shall match the following string: "document=global/group/list-service[@uri=sip:user1groupa@[DNHomeA]]" 2d. The SUBSCRIBE request shall include an Accept header with the indicated acceptable content types including either (or both) “application/xcap-diff+xml” and “message/external-body”.

7.1.2.2 PoC-1.0-con-C-0722 - Initial Subscription Request: All PoC Group Documents for a User (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0722
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client sends a valid SUBSCRIBE request to subscribe to changes in all PoC group documents for the PoC User.
Specification Reference	[OMA-XDM-Core] 6.1.2.1
SCR Reference	XDM-XDMC-C-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0722
Preconditions	PoC XDM client has the capability to request subscription to changes in all PoC Group documents for the PoC User. PoC Group A and PoC Group B documents are defined within the test tool for PoC User 1. The PoC Group A document has the following properties: - PoC Group A includes entries for PoC Friend 1, PoC Friend 2 and Poc Friend 3. - The XCAP URI of the PoC Group A document is "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/

	[XUI1]/user1groupsA.xml" - The PoC Group Identity of PoC Group A (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupa@[DNHomeA]". The PoC Group B document has the following properties: - PoC Group B includes entries for PoC Friend 2, PoC Friend 4 and Poc Friend 5. - The XCAP URI of the PoC Group B document is "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/user1groupsB.xml" - The PoC Group Identity of PoC Group B (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupb@[DNHomeA]".
Test Procedure	1. PoC User configures the PoC XDM client in such a way as to request notification of changes to all PoC Group documents defined by PoC User 1. 2. PoC XDM client sends a single SUBSCRIBE request. 3. PoC XDM client receives 200 OK response 4. PoC XDM client receives NOTIFY request message 5. PoC XDM client returns 200 OK response
Pass Criteria	2a. The request URI of the received SUBSCRIBE request shall be the SIP URI of PoC User 1, i.e. ”[XUI1]” 2b. The SUBSCRIBE request shall include an Event header with the following parameter values "sip-profile;profile-type=application;auid=org.openmobilealliance.poc-groups" 2c. The SUBSCRIBE request shall not include a document parameter. 2d. The SUBSCRIBE request shall include an Accept header with the indicated acceptable content types including either (or both) “application/xcap-diff+xml” and “message/external-body”.

7.1.2.3 PoC-1.0-con-C-0723 - Notify Request Matching (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0723
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM Client carries out NOTIFY Request matching against previously sent SUBSCRIBE requests.
Specification Reference	[OMA-XDM-Core] 6.1.2.2 [RFC3265] 3.2.4 [RFC3265] 3.3.4
SCR Reference	XDM-XDMC-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0723
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. PoC XDM client has the capability to subscribe to changes in PoC Group documents
Test Procedure	1. PoC User configures the Poc XDM client in such a way as to receive

	notification of changes to PoC Group A defined by PoC User 2 2. PoC XDM client sends a SUBSCRIBE request to the XDMS. 3. PoC XDM client receives 200 OK response 4. PoC XDM client receives NOTIFY request message with non-matching "tag" parameter on the "To" header 5. PoC XDM client returns a 400 series or 500 series response
Pass Criteria	5. PoC XDM client sends a 400 series or 500 series response to the NOTIFY request message

7.1.2.4 PoC-1.0-con-C-0724 – NOTIFY Processing with PoC Group document update (Includes Optional Features)

Test Case ID	PoC-1.0-con-C-0724
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client correctly processes a received NOTIFY request, indicating that a PoC Group document has changed, and updates the locally held copy of the document.
Specification Reference	[OMA-XDM-Core] 6.1.2.2
SCR Reference	XDM-XDMC-C-004
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0724
Preconditions	PoC XDM client has the capability to request subscription to changes in all PoC Group documents for the PoC User. PoC XDM client has the capability to update stored XML documents when notified of document changes in a NOTIFY request. PoC Group A and PoC Group B documents are defined within the test tool for PoC User 1. The PoC Group A document has the following properties: - PoC Group A includes entries for PoC Friend 1, PoC Friend 2 and PoC Friend 3. - The XCAP URI of the PoC Group A document is: "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/user1groupsA.xml" - The PoC Group Identity of PoC Group A (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupa@[DNHomeA]". The PoC Group B document has the following properties: - PoC Group B includes entries for PoC Friend 2, PoC Friend 4 and PoC Friend 5. - The XCAP URI of the PoC Group B document is: "[XCAP Root URI1]/ org.openmobilealliance.poc-groups/users/[XUI1]/user1groupsB.xml" - The PoC Group Identity of PoC Group B (i.e. the "uri" attribute of the <list-service> element) is "sip:user1groupb@[DNHomeA]".
Test Procedure	1. PoC User configures the PoC XDM client in such a way as to request notification of changes to all PoC Group documents defined by PoC User 1.

	2. PoC XDM client sends a single SUBSCRIBE request. 3. PoC XDM client receives 200 OK response 4. PoC XDM client receives an initial NOTIFY request message 5. PoC XDM client returns 200 OK response 6. PoC XDM client receives a subsequent NOTIFY request message with a body indicating that PoC Group B now contains entries for PoC Friend 1, PoC Friend 3 and PoC Friend 5. 7. PoC XDM client returns 200 OK response 8. Test Tool prompts inspection of the entries in PoC Groups A and B now held in the UE.
Pass Criteria	2a. The request URI of the received SUBSCRIBE request shall be the SIP URI of PoC User 1, i.e. ”[XUI1]” 2b. The SUBSCRIBE request shall include an Event header with the following parameter values "sip-profile; profile-type=application; auid=org.openmobilealliance.poc-groups". 2c. The SUBSCRIBE request shall not include a document parameter to the Event header. 2d. The SUBSCRIBE request shall include an Accept header with the indicated acceptable content types including either (or both) “application/xcap-diff+xml” and “message/external-body”. 8a. PoC Group A still contains entries for PoC Friend 1, PoC Friend 2 and PoC Friend 3. 8b. PoC Group B now contains entries for PoC Friend 1, PoC Friend 3 and PoC Friend 5.

7.1.3 Security Procedures

7.1.3.1 PoC-1.0-con-C-0741 - Support for HTTP Digest Authentication of Client

Test Case ID	PoC-1.0-con-C-0741
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client supports HTTP Digest Authentication.
Specification Reference	[OMA-XDM-Core] 6.4.1
SCR Reference	XDM-XDMC-C-005
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0741
Preconditions	The UE is powered off. The XDMC has been Provisioned with the following parameters: - XCAP Authentication user name - XCAP Authentication password PoC XDM Client does not hold local copies of the PoC Group document MyPoCGroups.xml The PoC Group documents MyPoCGroups.xml and exists in the “Users” tree for PoC User 1 within the test tool.
Test Procedure	1. UE is powered on

	2. PoC XDM client issues a GET request in order to retrieve the PoC Group document MyPoCGroups.xml from the test tool. 3. PoC XDM client receives "HTTP/1.1 401 Unauthorized" with a WWW-Authenticate header. 4. PoC XDM client repeats the GET request including an "Authorization" header. 5. PoC XDM client receives HTTP "200 OK" including PoC Group document MyPoCGroups.xml.
Pass Criteria	4a. The value of the "username" parameter in the Authorization header shall be value supplied by Device Provisioning. 4b. The "digest-response" parameter shall be complete and correct as defined in clause 3.2.2 of RFC 2617.

7.1.3.2 PoC-1.0-con-C-0743 - Support for TLS_RSA_WITH_3DES_EDE_CBC_SHA cipher suite

Test Case ID	PoC-1.0-con-C-0743
Test Object	PoC XDM Client (UE)
Test Case Description	To verify that the PoC XDM client supports TLS with the TLS_RSA_WITH_3DES_EDE_CBC_SHA cipher suite
Specification Reference	[OMA-XDM-Core] 6.4.2
SCR Reference	XDM-XDMC-C-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0743
Preconditions	PoC XDM client is provisioned with an XCAP Root URI starting with "https:" The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1). The PoC XDM Client does not contain valid authentication credentials.
Test Procedure	1. "Client Hello" request sent by PoC XDM client. 2. PoC XDM client receives "Server Hello" indicating that TLS_RSA_WITH_3DES_EDE_CBC_SHA cipher suite should be used. 3. PoC XDM Client sends HTTP GET request for PoC Group document. 4. PoC XDM client receives 200 OK response.
Pass Criteria	1. The "Client Hello" message includes the TLS_RSA_WITH_3DES_EDE_CBC_SHA cipher suite in the list of supported cipher suites. 3. A valid GET request is received for PoC Group A.

7.1.4 Common Application Usage

7.1.4.1 PoC-1.0-con-C-0761 - Retrieval of XML Documents Directory

Test Case ID	PoC-1.0-con-C-0761
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that the PoC XDM client follows the required procedures for retrieving the XML documents directory
Specification Reference	1. [OMA-XDM-Core] 6.7.2 2. [OMA-XDM-Core] 6.7.2.7
SCR Reference	None
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0761
Preconditions	PoC XDM Client supports ability to fetch the XML Documents Directory from the XDMS. All XML documents corresponding to the AUIDs "org.openmobilealliance.poc-groups" and "org.openmobilealliance.poc-rules" have been deleted from the PoC XDM Client under test. The following XML documents exist in the "Users" tree for PoC User 1 within the test tool: MyPoCGroups.xml - The document contains one <list-service> element, with uri attribute "sip:PoCgroupA@[DNHomeA]", defining PoC Group A, which contains a list element with two <entry> child elements for PoC Friend 1 and PoC Friend 2. MyOtherGroups.xml - The document contains one <list-service> element, with uri attribute "sip:PoCgroupB@[DNHomeA]", defining PoC Group B, which contains a list element with two <entry> child elements for PoC Friend 1 and PoC Friend 3. A "pocrules" document for PoC User 1 with an <allow-invite>element for PoC Friend 2 set to the value "accept". The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. The PoC user causes the PoC XDM Client to retrieve the XML Documents Directory, PoC Groups and PoC Rules documents. 2. PoC User inspects the PoC Groups documents in the Client under test. 3. PoC User inspects the PoC Rules in the Client under test.
Pass Criteria	1. The PoC XDM client issues a GET request (or requests) on the XML Documents Directory of the "users" tree which conforms to the required URI syntax. 2. Two PoC group documents are present in the Client under test. 3. The PoC XDM client indicates that PoC Friend 2 is permitted to invite PoC User 1 to a PoC Session.

7.1.5 XDM Client Provisioning

Currently there are no Client Static Conformance Requirements defined for XDM Client provisioning.

7.2 PoC XDM Application Usages

7.2.1 PoC Group

7.2.1.1 PoC-1.0-con-C-0801 - PoC Group Identity

Test Case ID	PoC-1.0-con-C-0801
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that PoC XDM client constructs a valid URI to represent a PoC Group Identity .
Specification Reference	[OMA-PoC-XDM] 5.1.6 [OMA-PoC-XDM] 5.1.1
SCR Reference	PoC_XDM-AU-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0801
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC User defines PoC Group A, with PoC Friend 1, PoC Friend 2 and PoC Friend 3 as members and a PoC Group Identity of "sip:friendsgroupa@[DNHomeA]". 2. PoC XDM Client issues a PUT request(s) to store the PoC Group document. 3. PoC XDM client receives 201 Created / 200 OK response(s).
Pass Criteria	2. The PoC Group document created by the/several PUT request(s) shall include a <list-service> element having a "uri" attribute with value "sip:friendsgroupa@[DNHomeA]"

7.2.1.2 PoC-1.0-con-C-0802 - Support of SIP URI PoC Addresses

Test Case ID	PoC-1.0-con-C-0802
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client constructs a valid <entry> element containing a PoC Address represented as a SIP URI .
Specification Reference	[OMA-PoC-XDM] 5.1.6 [OMA-PoC-XDM] 5.1.1 [RFC3261] 19.1.1
SCR Reference	PoC_XDM-AU-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0802
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials.
Test Procedure	1. PoC User defines PoC Group A, with PoC Friend 1, PoC Friend 2 and PoC Friend 3 as members. The SIP URIs of the PoC addresses entered shall be [PublicFriendID1], [PublicFriendID2] and [PublicFriendID3]

	2. PoC XDM Client issues a PUT request(s) to store the PoC Group document. 3. PoC XDM client receives 201 Created / 200 OK response(s)
Pass Criteria	2a. The PoC Group document created by the/several PUT request(s) shall include a <list-service> element and a child <list> element containing three child <entry> elements 2b. The <entry> elements shall have "uri" attributes equal to the SIP URIs entered by the PoC User at step 1.

7.2.1.3 PoC-1.0-con-C-0803 - Support of TEL URI PoC Addresses

Test Case ID	PoC-1.0-con-C-0803
Test Object	PoC XDM Client (UE)
Test Case Description	Verify PoC XDM client constructs a valid <entry> element containing a PoC Address represented as a TEL URI .
Specification Reference	[OMA-PoC-XDM] 5.1.6 [OMA-PoC-XDM] 5.1.1
SCR Reference	PoC_XDM-AU-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0803
Preconditions	The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. Support for entry of PoC Addresses as TEL URIs.
Test Procedure	1. PoC User defines PoC Group A, with PoC Friend 1, PoC Friend 2, PoC Friend 3 and PoC Friend 4 as members with the following TEL URIs respectively "tel:+1-123-987654", "tel:+2-123-987654", "tel:+1-124-987654" and "tel:+1-123-987655". 2. PoC XDM Client issues a PUT request(s) to store the PoC Group document. 3. PoC XDM client receives 201 Created / 200 OK response(s).
Pass Criteria	2a. The PoC Group document created by the/several PUT request(s) shall include a <list-service> element and a child <list> element containing four child <entry> elements. 2b. The <entry> elements shall have "uri" attributes whose values are valid TEL URIs as per RFC 3966. 2c. The <entry> elements shall have "uri" attributes whose values when represented as global numbers shall be as shown in step 1 of the test procedure.

7.2.1.4 PoC-1.0-con-C-0805 - Create PoC Group with External URI List

Test Case ID	PoC-1.0-con-C-0805
Test Object	PoC XDM Client (UE)
Test Case Description	Verify that a PoC XDM Client can correctly create a PoC Group document referencing an external URI list

Specification Reference	[OMA-PoC-XDM] 5.1.6 [OMA-XDM-Core] 6.6.1
SCR Reference	PoC_XDM-AU-C-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0805
Preconditions	Support for creating a PoC Group document referencing an external URI list. The UE is powered on and the PoC XDM Client is registered with the SIP/IP core with public user identity of [XUI1] (see clause 3.6.1) and the PoC XDM Client contains valid authentication credentials. The URI list document "index.xml" is available in the "Users" tree for PoC User 1 within the test tool. The URI list document "index.xml" contains a definition for a URI list with display-name "MyOldFriends".
Test Procedure	1. PoC User defines a PoC Group, with a displayed name of "MyPoCFriends" and a SIP URI of "sip:MyPoCFriends@[DNHomeA]". The PoC User includes within the PoC Group a single reference to the URI list with display-name "MyOldFriends". 2. PoC XDM Client issues a PUT request(s) to create the new PoC Group document.. 3. PoC XDM client receives 201 Created / 200 OK response(s).
Pass Criteria	2a. The XCAP URI used in the PUT request(s) shall be "[XCAP Root URI1]/org.openmobilealliance.poc-groups /users/[XUI1]/[AnyValidFilename].xml" 2b. The MIME type for the PoC Group document, used in the first PUT request creating the list , shall be "application/vnd.oma.poc.groups+xml". 2c. The PoC Group document shall contain a list-service element which has an uri attribute equal to "sip:MyPoCFriends@[DNHomeA]". 2d. The list-service element (see 2d above) shall contain a list element with a child external element which shall have an attribute with the name anchor comprising an XCAP node URL which correctly references the URI list with display-name "MyOldFriends".

7.2.2 PoC User Access Policy

Currently there are no Client Static Conformance Requirements defined for the PoC User Access Policy document.

7.3 Shared XDM Application Usages

7.3.1 URI List Document

7.3.1.1 PoC-1.0-con-C-0851 – Add a New URI List to Shared XDMS (Inlcudes Optional Features)

Test Case ID	PoC-1.0-con-C-0851

Test Object	PoC XDMC (UE)
Test Case Description	Verify that a PoC XDMC can correctly add a new URI List to the Shared XDMS.
Specification Reference	[OMA-XDM-Shared] 5.1 [OMA-XDM-Shared] 5.1.8
SCR Reference	Shared_XDM-AU-C-001, Shared_XDM-AU-C-002 Shared_XDM-AU-C-003, Shared_XDM-AU-C-004 Shared_XDM-AU-C-005, Shared_XDM-AU-C-006 Shared_XDM-AU-C-007, Shared_XDM-AU-C-008
Tool	POC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0851
Preconditions	PoC XDMC contains valid authentication credentials The UE is powered on and the PoC XDMC is registered with the SIP/IP Core with public user identity of [XUI1] (see clause 3.6.1). UE is capable of allowing the PoC User to create a new URI List.
Test Procedure	1. PoC User defines a URI List containing PoC Friend 1, PoC Friend 2 and PoC Friend 3 as members. The SIP URIs of the PoC addresses entered shall be [PublicFriendID1], [PublicFriendID2] and [PublicFriendID3] 2. PoC XDMC Client issues a PUT request (s) to add the new URI List to the “index” document. (NOTE: the “index” document may have already existed in Shared XDMS, or it may be created in this test procedure). 3. PoC XDMC receives 200 OK, or 201 CREATED response.
Pass Criteria	2a. The PUT request (s) creating a new URI List is (are) issued according to [OMA-XDM-Shared] syntax and semantics. 2b. The <list> element (s), if present, SHALL include a “name” attribute 2c. Among all HTTP PUT requests adding a URI List, there SHALL be three <entry> elements, each with the “uri” attribute set to: [PublicFriendID1], [PublicFriendID2] and [PublicFriendID3].

7.3.1.2 PoC-1.0-con-C-0852 – Add a New URI to a URI List (Includes Optional features)

Test Case ID	PoC-1.0-con-C-0852
Test Object	PoC XDMC
Test Case Description	Verify that a PoC XDMC can correctly add a new URI to a URI List in the Shared XDMS.
Specification Reference	[OMA-XDM-Shared] 5.1 [OMA-XDM-Shared] 5.1.8
SCR Reference	Shared_XDM-AU-C-001, Shared_XDM-AU-C-002 Shared_XDM-AU-C-003, Shared_XDM-AU-C-004 Shared_XDM-AU-C-005, Shared_XDM-AU-C-006 Shared_XDM-AU-C-007, Shared _XDM-AU-C-008
Tool	POC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-C-0852

Preconditions	PoC XDMC contains valid authentication credentials The UE is powered on and the PoC XDMC is registered with the SIP/IP Core with public user identity of [XUI1] (see clause 3.6.1). At least one URI List exist in Shared XDMS for the PoC User.
Test Procedure	1. PoC User adds PoC Friend 1, PoC Friend 2 and PoC Friend 3 to any URI List. The SIP URIs of the PoC addresses entered shall be [PublicFriendID1], [PublicFriendID2] and [PublicFriendID3] 2. PoC XDMC issues a PUT request (s) to store the URI List. 3. PoC XDMC receives 200 OK response.
Pass Criteria	2a. The PUT request (s) adding new URIs to the URI List is (are) issued according to [OMA-XDM-Shared] syntax and semantics. 2b. The <list> element (s), if present, SHALL include a "name" attribute 2c. Among all HTTP PUT requests adding a new URI to the URI List, there SHALL be three <entry> elements, each with the "uri" attribute set to: [PublicFriendID1], [PublicFriendID2] and [PublicFriendID3].

8. PoC Server – Control Plane

8.1 PoC Server – Common Functions

8.1.1 Determination of PoC Server Role

8.1.1.1 PoC-1.0-con-S-0001 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE from a PoC Client

Test Case ID	PoC-1.0-con-S-0001
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Controlling PoC server upon receiving an INVITE from a PoC Client.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0001
Preconditions	PoC ServerA with an active account for PoC User1. PoC ServerB with an active account for PoC User2. The SIP URI in the Request URI of the INVITE message corresponds to a Conference-factory-URI of the PoC service in the network served by PoC ServerA.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2.
Pass Criteria	1. PoC ServerA shall assume the role of a Controlling PoC Server. This may be verified by looking at the log messages on the PoC Server.

8.1.1.2 PoC-1.0-con-S-0002 – A Terminating PoC Server assumes the role of a Participating PoC server upon receiving a SIP INVITE from a Controlling PoC Server

Test Case ID	PoC-1.0-con-S-0002
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Participating PoC Function upon receiving a SIP INVITE for a 1-1 session from a Controlling PoC server.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0002
Preconditions	PoC ServerA with an active account for PoC User1. PoC ServerB with an active account for PoC User2. The SIP URI in the Request URI of the INVITE message does not correspond to a Conference-factory-URI of the PoC service in the network served by PoC ServerA.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2.
Pass Criteria	1. PoC ServerB shall assume the role of a Participating PoC Server. This may be verified by looking at the log messages on the PoC Server.

8.1.1.3 PoC-1.0-con-S-0003 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client

Test Case ID	PoC-1.0-con-S-0003
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Controlling PoC Function upon receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0003
Preconditions	PoC ServerA with an active account for PoC User1. The SIP URI for PoC GroupA in the Request URI of the INVITE message corresponds to a Pre-arranged PoC Group owned by PoC ServerA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1. PoC ServerA shall assume the role of a Controlling PoC Server. PoC ServerA will send out a SIP INVITE message to each member of PoC GroupA.

8.1.1.4 PoC-1.0-con-S-0004 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE for a Chat Group session from a PoC Client

Test Case ID	PoC-1.0-con-S-0004

Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Controlling PoC Function upon receiving a SIP INVITE for a Chat Group session from a PoC Client.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0004
Preconditions	PoC ServerA with an active account for PoC User1. The SIP URI for PoC GroupC in the Request URI of the INVITE message corresponds to a Chat PoC Group owned by PoC ServerA.
Test Procedure	1. PoC User1 initiates a Chat session to Chat GroupC.
Pass Criteria	1. PoC ServerA shall assume the role of a Controlling PoC Server. This may be verified by looking at the log messages on the PoC Server.

8.1.1.5 PoC-1.0-con-S-0005 – An Originating PoC Server assumes the role of a Participating PoC server upon receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client

Test Case ID	PoC-1.0-con-S-0005
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Participating PoC Function upon receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0005
Preconditions	PoC ServerA with an active account for PoC User1. The SIP URI for PoC GroupD in the Request URI of the INVITE message does not correspond to a Pre-arranged PoC Group owned by PoC ServerA. The SIP URI for PoC GroupD in the Request URI of the INVITE message corresponds to a Pre-arranged PoC Group owned by PoC ServerB.
Test Procedure	1.PoC User1 initiates a Pre-arranged session to PoC GroupD.
Pass Criteria	1a. PoC ServerA shall assume the role of a Participating PoC Server and will send out an SIP INVITE message containing only the SIP URI of PoC GroupD. 1b. PoC ServerB shall assume the role of a Controlling PoC Server and will send out a SIP INVITE message to each member of PoC GroupD.

8.1.1.6 PoC-1.0-con-S-0006 – An Originating PoC Server assumes the role of a Participating PoC server upon receiving a SIP INVITE for a Chat Group session from a PoC Client

Test Case ID	PoC-1.0-con-S-0006
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Participating PoC Function upon receiving a SIP INVITE for a Chat Group session from a PoC

	Client.
Specification Reference	7.1.1
SCR Reference	PoCCPSpec-CRE-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0006
Preconditions	PoC ServerA with an active account for PoC User1. The SIP URI for PoC GroupE in the Request URI of the INVITE message does not correspond to a Chat PoC Group owned by PoC ServerA. The SIP URI for PoC GroupE in the Request URI of the INVITE message corresponds to a chat PoC Group owned by PoC ServerB.
Test Procedure	1.PoC User1 initiates a Pre-arranged session to PoC GroupE.
Pass Criteria	1a. PoC ServerA shall assume the role of a Participating PoC Server. 1b. PoC ServerB shall assume the role of a Controlling PoC Server. 1c. This may be verified by looking at the log messages on the PoC Server.

8.1.1.7 PoC-1.0-con-S-0007 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP MESSAGE from a PoC User

Test Case ID	PoC-1.0-con-S-0007
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Controlling PoC Function upon receiving a SIP MESSAGE and the PoC Server owns the PoC Group Identity.
Specification Reference	7.1.3
SCR Reference	PoCCPSpec-CRE-S-001, PoCCPSpec-CUO-S-0CUO-S-001, PoCCPSpec-CUO-S-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0007
Preconditions	PoC ServerA supports Group Advertisement. PoC ServerA with an active account for PoC User1/2/3. PoC User1, PoC User2, and PoC User3 are members of PoC GroupC. The SIP URI for PoC GroupC, which is being advertised, corresponds to a PoC Group owned by PoC ServerA.
Test Procedure	1. PoC User1 sends a Group Advertisement request to PoC ServerA for PoC GroupC.
Pass Criteria	1. PoC ServerA assumes the role of a Controlling PoC Server by sending out a SIP MESSAGE message to each member of PoC GroupC.

8.1.1.8 PoC-1.0-con-S-0008 – An Originating PoC Server assumes the role of a Participating PoC server upon receiving a SIP MESSAGE from a PoC User

Test Case ID	PoC-1.0-con-S-0008
Test Object	PoC Server
Test Case Description	Verify that a PoC Server correctly assumes the role of a Participating PoC Function upon receiving a SIP MESSAGE and the PoC Server does not own the PoC Group Identity.
Specification Reference	7.1.3
SCR Reference	PoCCPSpec-CRE-S-001, PoCCPSpec-CUO-S-001, PoCCPSpec-CUO-S-002

Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0008
Preconditions	PoC ServerA supports Group Advertisement. PoC ServerA with an active account for PoC User1/2/3. PoC User1, PoC User2, and PoC User3 are members of PoC GroupC. The SIP URI for PoC GroupC, which is being advertised, does not correspond to a PoC Group owned by PoC ServerA.
Test Procedure	1.PoC User1 sends a Group Advertisement request to PoC ServerA for PoC GroupC.
Pass Criteria	1.PoC ServerA assumes the role of a Participating PoC Server and sends one SIP MESSAGE to a Controlling PoC server.

8.1.2 Handling of Requests unrelated to PoC Sessions

Already covered by Group Advertisement

8.2 Controlling PoC Function Procedures

8.2.1 Requests Terminating at the Controlling PoC Function

8.2.1.1 PoC-1.0-con-S-0100 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with a conference-factory-uri that does not exist

Test Case ID	PoC-1.0-con-S-0100
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 404 “Not Found” when it receives a 1-1 session SIP INVITE with a conference-factory-uri that does not exist.
Specification Reference	7.2.1.1, 7.2.1.2, 7.5.1
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CRE-S-008, PoCCPSpec-CEH-S-001, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0100
Preconditions	PoC ServerA with an active account for PoC User1/2. The SIP URI for in the Request URI of PoC User1’s INVITE message does not correspond to a Conference-factory-URI of the PoC service in the network served by PoC ServerA.
Test Procedure	1. PoC User1 initiates a PoC 1-1 session to PoC User2.
Pass Criteria	1. PoC ServerA returns a SIP 404 “Not Found” response back to PoC User1.

8.2.1.2 PoC-1.0-con-S-0101 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with an invalid Accept-Contact header

Test Case ID	PoC-1.0-con-S-0101

Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 “Forbidden” when it receives a 1-1 session SIP INVITE with an invalid Accept-Contact header.
Specification Reference	7.2.1.1, 7.2.1.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0101
Preconditions	PoC ServerA with an active account for PoC User1/2.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2 and the SIP INVITE Accept-Contact header does not contain the +g.poc.talkburst feature-tag.
Pass Criteria	1.PoC ServerA returns a 403 “Forbidden” message back to PoC User1.

8.2.1.3 PoC-1.0-con-S-0102 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with an incorrect inviting user PoC address

Test Case ID	PoC-1.0-con-S-0102
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 “Forbidden” when it receives a 1-1 session SIP INVITE with an unconfigured PoC address of the inviting user.
Specification Reference	7.2.1.1, 7.2.1.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0102
Preconditions	PoC ServerA with an active account for PoC User1/20. PoC User20 does not exist on PoC ServerA.
Test Procedure	1.PoC User20 initiates a 1-1 session to PoC User1.
Pass Criteria	1.The PoC server returns a SIP 403 “Forbidden” message back to PoC User20.

8.2.1.4 PoC-1.0-con-S-0103 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with unsupported Media Parameters

Test Case ID	PoC-1.0-con-S-0103
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 488 “Not Acceptable Here” when it receives a 1-1 session SIP INVITE with media parameters it does not support.
Specification Reference	7.2.1.1, 7.2.1.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003

Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0103
Preconditions	PoC ServerA with an active account for PoC User1/20. PoC User1 contains a CODEC in the SDP that is not supported by PoC ServerA.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2.
Pass Criteria	1.PoC ServerA returns a SIP 488 "Not Acceptable Here" message back to PoC User1.

8.2.1.5 PoC-1.0-con-S-0105 – A Terminating PoC Server functioning as a Controlling server receives a valid 1-1 session SIP INVITE with Media Parameters that it supports

Test Case ID	PoC-1.0-con-S-0105
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends out a terminating SIP INVITE with a unique PoC Session Id when it receives a valid SIP INVITE for 1-1 session with Media Parameters that it supports.
Specification Reference	7.2.1.1, 7.2.1.2, 7.2.2.1, 7.2.2.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0105
Preconditions	PoC ServerA with an active account for PoC User1/2.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2
Pass Criteria	PoC ServerA sends a SIP INVITE to PoC User2 with the following content: 1a. An Accept-Contact header with the "+g.poc.talkburst" feature tag along with the "require" and "explicit" feature parameters. 1b. The Request-URI is set with the PoC Address of the invited user. 1c. The User-Agent contains the PoC release version. 1d. The Supported header contains an option tag "100rel". 1e. The P-Asserted-Identity header is set to the PoC Address of PoC User1. 1f. The Referred-By header contains the PoC Address of PoC User1. 1g. The Contact header contains a unique PoC Session Id, the "+g.poc.talkburst" feature tag, the "isfocus" feature tag, and a Session Type uri parameter of "session=1-1". 1h. The Supported header includes a "timer" value. 1i. An unmodified P-Alerting-Mode header if one was received in the incoming INVITE message. 1j. A MIME SDP body with the following parameters: a. The IP address and port number for the RTP session. b. A subset of all of the codecs and media parameters from the originating INVITE message that are supported by PoC ServerA. c. The IP address and port number for the RTCP messaging if it is different than the

	default. d. The offered Talk Burst Control Protocols and Talk Burst parameters selected by the PoC Server.

8.2.1.6 PoC-1.0-con-S-0106 – A Terminating PoC Server functioning as a Controlling server receives a valid 1-N session SIP INVITE with Media Parameters that it supports

Test Case ID	PoC-1.0-con-S-0106
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends out a terminating SIP INVITE with a unique PoC Session Id when it receives a valid SIP INVITE for 1-N session with Media Parameters that it supports.
Specification Reference	7.2.1.1, 7.2.1.2, 7.2.2.1, 7.2.2.2
SCR Reference	PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0106
Preconditions	PoC ServerA with an active account for PoC User1/2/3.
Test Procedure	1.PoC User1 initiates an Adhoc-group session to PoC User2 and PoC User3.
Pass Criteria	1.PoC ServerA sends a SIP INVITE to PoC User2 with the following content: a. An Accept-Contact header with the "+g.poc.talkburst" feature tag along with the "require" and "explicit" feature parameters. b. The Request-URI is set with the PoC Address of the invited user. c. The User-Agent contains the PoC release version. d. The Supported header contains an option tag "100rel". e. The P-Asserted-Identity header is set to the PoC Address of PoC User1. f. The Referred-By header contains the PoC Address of PoC User1. g. The Contact header contains a unique PoC Session Id, the "+g.poc.talkburst" feature tag, the "isfocus" feature tag, and a Session Type uri parameter of "session=adhoc". h. The Supported header includes a "timer" value. i. An unmodified P-Alerting-Mode header if one was received in the incoming INVITE message. j. A MIME SDP body with the following parameters: e. The IP address and port number for the RTP session. f. A subset of all of the codecs and media parameters from the originating INVITE message that are supported by PoC ServerA. g. The IP address and port number for the RTCP messaging if it is different than the default. h. The offered Talk Burst Control Protocols and Talk Burst parameters selected by the PoC Server.

8.2.1.7 PoC-1.0-con-S-0107 – A Terminating PoC Server functioning as a Controlling server receives a SIP 180 "Ringing" from a Participating PoC Server

Test Case ID	PoC-1.0-con-S-0107
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends out a SIP 180 "Ringing" message to the inviting user when it receives a SIP 180 "Ringing" from the invited user's Participating PoC server.
Specification Reference	7.2.1.2, 7.2.2.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0107
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User2 is configured for manual answer.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC ServerA receives a SIP 180 "Ringing" message (This step is implicit and does not require and user intervention)
Pass Criteria	1. A SIP 180 "Ringing" is sent back to the inviting user. 2. The 180 "Ringing" message conforms to the following: a) Contains the appropriate server header b) The originator's PoC address contains the Conference-factory-uri. c) The Contact header contains the feature-tag +g.poc.talkburst and the Session Type parameter is set to "session=1-1". d) The Contact header contains the PoC Address of the PoC User2.

8.2.1.8 PoC-1.0-con-S-0108 – A Terminating PoC Server functioning as a Controlling server receives a SIP 200 "OK" from a Participating PoC Server

Test Case ID	PoC-1.0-con-S-0108
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends out a SIP 200 "OK" message to the inviting user when it receives a SIP 200 "OK" from the invited user's Participating PoC server.
Specification Reference	7.2.1.1, 7.2.1.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CRE-S-005, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-001, PoCCPSpec-CTR-S-003, PoCCPSpec-CTR-S-004, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0108
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User2 is configured for manual answer.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2. 2.PoC User2 accepts the invitation.

Pass Criteria	2a. A SIP 200 "OK" is sent back to the inviting user. 2b. The 200 "OK" message conforms to the following: a. Contains the appropriate server headers and User-Agent b. Contains a Session-Expires header with the "refresher" parameter set to "uac" c. The originator's PoC address contains the Conference-factory-uri. d. The Contact header contains the feature-tag +g.poc.talkburst and the Session Type parameter is set to "session=1-1" 2c. The 200 "OK" message contains a MIME SDP body that conforms to the following: a. Contains the IP Address and UDP port number at the PoC server to be used for the RTP session b. Contains the CODEC and Media Parameters that are selected by the PoC server c. Contains the IP Address and the port number for RTCP messaging if the default values are not to be used d. Contains the Talk Burst Control Protocol and Talk Burst parameters selected by the PoC server e. The PoC server's UDP port number to be used for the Talk Burst Control Protocol

8.2.1.9 PoC-1.0-con-S-0109 – A Terminating PoC Server functioning as a Controlling server receives a SIP 4XX, 5XX, or 6XX message from a Participating PoC Server

Test Case ID	PoC-1.0-con-S-0109
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends out a SIP 4XX, 5XX, or 6XX message to the inviting user when it receives the same from the invited user's Participating PoC server.
Specification Reference	7.2.1.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-008
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0109
Preconditions	PoC ServerA with an active account for PoC User1/2.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 rejects the invitation.
Pass Criteria	2. The SIP 486 "Busy" message received by PoC ServerA is sent back to PoC User1.

8.2.1.10 PoC-1.0-con-S-0110 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE for a PoC Group that is not owned by this server

Test Case ID	PoC-1.0-con-S-0110
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 404 "Not Found" when it receives a Pre-arranged group session SIP

	INVITE with for a PoC group it does not own.
Specification Reference	7.2.1.1, 7.2.1.3, 7.5.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CRE-S-008, PoCCPSpec-CEH-S-002, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0110
Preconditions	PoC ServerA with an active account for PoC User1. Pre-arranged PoC GroupH is not owned by PoC ServerA.
Test Procedure	1.PoC User1 initiates a Pre-arranged group session to Pre-arranged PoC GroupH.
Pass Criteria	1.PoC ServerA returns a SIP 404 “Not Found” message back to PoC User1.

8.2.1.11 PoC-1.0-con-S-0111 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with an invalid Session-Type parameter in the Request-URI

Test Case ID	PoC-1.0-con-S-0111
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 “Forbidden” when it receives a Pre-arranged group session SIP INVITE with an invalid Accept-Contact header.
Specification Reference	7.2.1.1, 7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0111
Preconditions	PoC ServerA with an active account for PoC User1. Pre-arranged PoC GroupA is owned by PoC ServerA. The “session-prearranged” value is missing from the Request-URI.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to Pre-arranged PoC GroupA.
Pass Criteria	1.The PoC server returns a 404 “Not Found” message with a ‘Correct Session Type of <Request-URI> is “session=prearranged”’ warning back to PoC User1.

8.2.1.12 PoC-1.0-con-S-0112 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with an invalid Contact header

Test Case ID	PoC-1.0-con-S-0112
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 “Forbidden” when it receives a Pre-arranged group session SIP INVITE with an invalid Contact header.
Specification Reference	7.2.1.1, 7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool

Test code	Validated test code for test case PoC-1.0-con-S-0112
Preconditions	PoC ServerA with an active account for PoC User1. Pre-arranged PoC GroupA is owned by PoC ServerA. The “isfocus” feature parameter is present in the URI of the Contact header.
Test Procedure	1.PoC User1 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1.The PoC Server returns a SIP 403 “Forbidden” message with a “isfocus already assigned” warning back to PoC User1.

8.2.1.13 PoC-1.0-con-S-0113 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE from a PoC User whose session initiation policy forbids him from initiating Pre-arranged group calls to this group

Test Case ID	PoC-1.0-con-S-0113
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 “Forbidden” when it receives a Pre-arranged group session SIP INVITE from a PoC User who is not authorized to make Pre-arranged group calls to this group.
Specification Reference	7.2.1.1, 7.2.1.3, 7.2.1.14
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CPO-S-002, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0113
Preconditions	PoC ServerA with an active account for PoC User1. Pre-arranged PoC GroupA is owned by PoC ServerA. The <allow-initiate-conference> action is set to “No” for PoC User1.
Test Procedure	1.PoC User1 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1.The PoC Server returns a 403 “Forbidden” back to PoC UserA.

8.2.1.14 PoC-1.0-con-S-0114 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE for a Pre-arranged PoC group that already has a maximum number of participants

Test Case ID	PoC-1.0-con-S-0114
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 486 “Busy Here” when it receives a Pre-arranged group session SIP INVITE for a Pre-arranged group that has already reached the maximum number of participants..
Specification Reference	7.2.1.1, 7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0114
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members.

	The <maximum-number-of-participants> flag is set to 2 on PoC ServerA. PoC User2 is allowed to initiate PoC sessions to PoC GroupA.
Test Procedure	1.PoC User2 initiates a Pre-arranged group session to PoC pre-arranged GroupA.
Pass Criteria	1.PoC ServerA sends out a SIP INVITE message only to either PoC User1 OR PoC User2.

8.2.1.15 PoC-1.0-con-S-0115 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with all the correct parameters.

Test Case ID	PoC-1.0-con-S-0115
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP INVITE to all the members of a Pre-arranged group if the SIP INVITE it received from the inviting user is correct.
Specification Reference	7.2.1.1, 7.2.1.3, 7.2.2.1, 7.2.2.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0115
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-number-of-participants> flag is set to 5 on PoC ServerA. PoC User2 is allowed to initiate PoC sessions to PoC GroupA.
Test Procedure	1.PoC User2 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1.PoC ServerA sends a SIP INVITE to PoC User1 and PoC User3 with the following content: a. An Accept-Contact header with the “+g.poc.talkburst” feature tag along with the “require” and “explicit” feature parameters. b. The Request-URI is set with the PoC Address of the invited user. c. The User-Agent contains the PoC release version. d. The Supported header contains an option tag “100rel”. e. The P-Asserted-Identity header is set to the PoC Address of PoC User1. f. The Referred-By header contains the PoC Address of PoC User1. g. The Contact header contains a unique PoC Session Id, the “+g.poc.talkburst” feature tag, the “isfocus” feature tag, and a Session Type uri parameter of “session=prearranged”. h. The Supported header includes a “timer” value. i. An unmodified P-Alerting-Mode header if one was received in the incoming INVITE message. j. A MIME SDP body with the following parameters:

	a. The IP address and port number for the RTP session. b. A subset of all of the codecs and media parameters from the originating INVITE message that are supported by PoC ServerA. c. The IP address and port number for the RTCP messaging if it is different than the default. d. The offered Talk Burst Control Protocols and Talk Burst parameters selected by the PoC Server.

8.2.1.16 PoC-1.0-con-S-0116 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with all the correct parameters and anonymity is requested

Test Case ID	PoC-1.0-con-S-0116
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP INVITE to all the members of a Pre-arranged group if the SIP INVITE it received from the inviting user is correct.
Specification Reference	7.2.1.1, 7.2.1.3, 7.2.2.1, 7.2.2.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0116
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-number-of-participants> flag is set to 5 on PoC ServerA. PoC User2 is allowed to initiate PoC sessions to PoC GroupA.
Test Procedure	1.PoC User2 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1.PoC ServerA sends a SIP INVITE to PoC User1 and PoC User3 with the following content: a. An Accept-Contact header with the “+g.poc.talkburst” feature tag along with the “require” and “explicit” feature parameters. b. The Request-URI is set with the PoC Address of the invited user. c. The User-Agent contains the PoC release version. d. The Supported header contains an option tag “100rel”. e. The P-Asserted-Identity header is set to the PoC Address of PoC User1. f. The Referred-By header contains the PoC Address of PoC User1. g. The Contact header contains a unique PoC Session Id, the “+g.poc.talkburst” feature tag, the “isfocus” feature tag, and a Session Type uri parameter of “session=prearranged”.

	h. The Supported header includes a "timer" value. i. Contains a Privacy header with the value set to "id". j. An unmodified P-Alerting-Mode header if one was received in the incoming INVITE message. k. A MIME SDP body with the following parameters: i. The IP address and port number for the RTP session. ii. A subset of all of the codecs and media parameters from the originating INVITE message that are supported by PoC ServerA. iii. The IP address and port number for the RTCP messaging if it is different than the default. iv. The offered Talk Burst Control Protocols and Talk Burst parameters selected by the PoC Server.

8.2.1.17 PoC-1.0-con-S-0117 – A Terminating PoC Server functioning as a Controlling server receives a 200 OK after an invited user accepts a SIP INVITE for a pre-arranged group session.

Test Case ID	PoC-1.0-con-S-0117
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP 200 "OK" to the inviting PoC User..
Specification Reference	7.2.1.1, 7.2.1.3, 7.2.2.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CIR-S-001, PoCCPSpec-CIR-S-002, PoCCPSpec-CIR-S-003, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0117
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-number-of-participants> flag is set to 5 on PoC ServerA. PoC User2 is allowed to initiate PoC sessions to PoC GroupA. PoC User2 subscribes to PoC User1's conference events. PoC User3 does not subscribe to PoC User1's conference events.
Test Procedure	1.PoC User2 initiates a Pre-arranged group session to PoC GroupA. 2.PoC User1 accepts the invitation. 3.PoC User3 accepts the invitation.
Pass Criteria	2a. A SIP 200 "OK" is sent back to the inviting user. 2b. The 200 "OK" message conforms to the following: a. Contains the appropriate server headers and User-Agent b. Contains a Session-Expires header with the "refresher" parameter set to "uac" c. The originator's PoC address contains the PoC Group Identity with the Session Type uri-parameter set to "session-

	prearranged". d. The Contact header contains the feature-tag +g.poc.talkburst and the Session Type parameter is set to "session=prearranged" 2c. The 200 "OK" message contains a MIME SDP body that conforms to the following: a. Contains the IP Address and UDP port number at the PoC server to be used for the RTP session b. Contains the CODEC and Media Parameters that are selected by the PoC server c. Contains the IP Address and the port number for RTCP messaging if the default values are not to be used d. Contains the Talk Burst Control Protocol and Talk Burst parameters selected by the PoC server e. The PoC server's UDP port number to be used for the Talk Burst Control Protocol 3. A NOTIFY is sent to PoC User2 informing that PoC User1 has joined the session.

8.2.1.18 PoC-1.0-con-S-0118 – A Terminating PoC Server functioning as a Controlling server receives a 200 OK after an invited user accepts a SIP INVITE for a pre-arranged group session in which the <maximum-participant-count> is exceeded.

Test Case ID	PoC-1.0-con-S-0118
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP 200 "OK" with a warning message to the inviting PoC User.
Specification Reference	7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0118
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-number-of-participants> flag is set to 2 on PoC ServerA. PoC User2 is allowed to initiate PoC sessions to PoC GroupA. PoC User2 subscribes to PoC User1's conference events. PoC User3 does not subscribe to PoC User1's conference events.
Test Procedure	1. PoC User2 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 accepts the invitation.
Pass Criteria	2a. A SIP 200 "OK" is sent back to the inviting user. 2b. The 200 "OK" message conforms to the following: a. Contains the appropriate server headers and User-Agent b. Contains a Session-Expires header with the "refresher" parameter set to "uac" c. The originator's PoC address contains the PoC Group

	Identity with the Session Type uri-parameter set to "session-prearranged". d. The Contact header contains the feature-tag +g.poc.talkburst and the Session Type parameter is set to "session=prearranged" 2c. The 200 "OK" message contains a MIME SDP body that conforms to the following: a. Contains the IP Address and UDP port number at the PoC server to be used for the RTP session b. Contains the CODEC and Media Parameters that are selected by the PoC server c. Contains the IP Address and the port number for RTCP messaging if the default values are not to be used d. Contains the Talk Burst Control Protocol and Talk Burst parameters selected by the PoC server e. The PoC server's UDP port number to be used for the Talk Burst Control Protocol 2d. A NOTIFY is sent to PoC User2 informing that PoC UserA has joined the session. 2e. The 200 "OK" message's warning text is set to "Too many group members".

8.2.1.19 PoC-1.0-con-S-0119 – A Terminating PoC Server functioning as a Controlling server receives a SIP INVITE for an ongoing pre-arranged group session from a user who does not have the appropriate joining policy.

Test Case ID	PoC-1.0-con-S-0119
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP 403 "Forbidden" message when it receives a join request from a user who is not allowed to join the session.
Specification Reference	7.2.1.2, 7.2.1.4, 7.2.1.6
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CPO-S-001, PoCCPSpec-CTR-S-009
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0119
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <join-handling> action for PoC User1 is set to "No" on PoC ServerA. A PoC session is currently ongoing for PoC GroupA.
Test Procedure	1.PoC User1 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1. PoC ServerA sends a SIP 403 "Forbidden" message to PoC User1.

8.2.1.20 PoC-1.0-con-S-0120 – A Terminating PoC Server functioning as a Controlling server receives a SIP INVITE for an ongoing pre-arranged group session and the maximum participant limit has already been reached.

Test Case ID	PoC-1.0-con-S-0120

Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a sends a SIP 403 “Forbidden” message when it receives a join request from a user after the maximum participant limit has been reached.
Specification Reference	7.2.1.4
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-009, PoCCPSpec-CTR-S-013
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0120
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-participant-count> action is set to 2 on PoC ServerA. A PoC session is currently ongoing for PoC GroupA. PoC User2 is allowed to join PoC GroupA. PoC User3 is allowed to initiate a session to PoC GroupA.
Test Procedure	1. PoC User3 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 accepts the invitation. 3. PoC User2 rejects the invitation. 4. After a few seconds, PoC User2 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	4. PoC ServerA sends a SIP 486 “Busy Here” message to PoC User2 with a warning header set to “Too many participants”.

8.2.1.21 PoC-1.0-con-S-0121 – A Terminating PoC Server functioning as a Controlling server ignores subsequent 200 OK messages it receives for a Pre-arranged group session.

Test Case ID	PoC-1.0-con-S-0121
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server ignores subsequent 200 OK messages after it has already sent the first 200 OK message back to the inviting PoC User.
Specification Reference	7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0121
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-participant-count> action is set to 5 on PoC ServerA. PoC User2 is allowed to initiate a session to PoC GroupA.
Test Procedure	1. PoC User2 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 accepts. 3. After a few seconds, PoC User3 accepts.
Pass Criteria	3. The 200 OK message resulting from PoC User3 accepting the session is ignored by PoC ServerA.

8.2.1.22 PoC-1.0-con-S-0122 – A Terminating PoC Server functioning as a Controlling server receives a SIP 180 "Ringing" from a Participating PoC Server and it has already returned a SIP 180 "Ringing" to the inviting user.

Test Case ID	PoC-1.0-con-S-0122
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server ignores any subsequest 180 "Ringing" messages it receives from Participating servers once it has already sent the first 180 "Ringing" back to the inviting PoC user.
Specification Reference	7.2.1.3
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-005, PoCCPSpec-CRE-S-006, PoCCPSpec-CTR-S-006, PoCCPSpec-CTR-S-007
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0122
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. Pre-arranged PoC GroupA has PoC User1, PoC User2, and PoC User3 as its members. The <maximum-participant-count> action is set to 5 on PoC ServerA. PoC User2 is allowed to initiate a session to PoC GroupA.
Test Procedure	1.PoC User2 initiates a Pre-arranged group session to PoC GroupA.
Pass Criteria	1. PoC ServerA only returns the first SIP 180 "Ringing" message it receives. It discards all subsequent SIP 180 "Ringing" messages.

8.2.1.23 PoC-1.0-con-S-0123 – A Terminating PoC Server functioning as a Controlling server receives a Chat group session SIP INVITE for a Chat Group that is not owned by this server

Test Case ID	PoC-1.0-con-S-0123
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 404 "Not Found" when it receives a Pre-arranged group session SIP INVITE with for a PoC group it does not own.
Specification Reference	7.2.1.5
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CRE-S-008, PoCCPSpec-CTR-S-011, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0123
Preconditions	PoC Chat GroupJ is not configured on PoC ServerA. PoC ServerA with an active account for PoC User1.
Test Procedure	1.PoC User1 initiates a Chat group session to PoC Chat GroupJ.
Pass Criteria	1.PoC ServerA returns a SIP 404 "Not Found" message back to PoC User1.

8.2.1.24 PoC-1.0-con-S-0124 – A Terminating PoC Server functioning as a Controlling server receives a Chat group session SIP INVITE with an invalid Request-URI

Test Case ID	PoC-1.0-con-S-0124
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server

	returns a 404 “Not Found” when it receives a Pre-arranged group session SIP INVITE with an invalid Request-URI.
Specification Reference	7.2.1.5, 7.5.2
SCR Reference	PoCCPSpec-CRE-S-002, PoCCPSpec-CRE-S-006, PoCCPSpec-CEH-S-002, PoCCPSpec-CTR-S-011, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0124
Preconditions	PoC Chat GroupJ is not configured on PoC ServerA. PoC ServerA with an active account for PoC User1. The session parameter in the Request-URI is set to something other than “chat”. PoC Chat GroupF is owned by PoC ServerA.
Test Procedure	1.PoC User1 initiates a Chat group session to PoC Chat GroupF.
Pass Criteria	1.The PoC Server returns a 404 “Not Found” with a warning text of Correct Session Type of <Request-URI> is “chat”’ to PoC User1.

8.2.1.25 PoC-1.0-con-S-0125 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with Media Parameters it does not support

Test Case ID	PoC-1.0-con-S-0125
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 488 “Not Acceptable Here” when it receives a SIP UPDATE with Media Parameters that it does not support.
Specification Reference	7.2.1.7
SCR Reference	PoCCPSpec-CTR-S-014
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0125
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User1 has the capability of updating any media parameter while in a PoC session.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 accepts the invitation. 3. PoC User1 attempts to update the media parameters for the session with a parameter that is not supported by PoC ServerA.
Pass Criteria	3.PoC ServerA send a SIP 488 “Not Acceptable Here” message to PoC User1.

8.2.1.26 PoC-1.0-con-S-0126 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with a CODEC it does not support

Test Case ID	PoC-1.0-con-S-0126
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 488 “Not Acceptable Here” when it receives a SIP UPDATE with a CODEC that it does not support.
Specification Reference	7.2.1.7
SCR Reference	PoCCPSpec-CTR-S-014
Tool	PoC Conformance Tool

Test code	Validated test code for test case PoC-1.0-con-S-0126
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User1 has the capability of updating the CODEC while in a PoC session.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 accepts the invitation. 3. PoC User1 attempts to update the CODEC for the session with a CODEC that is not supported by PoC ServerA.
Pass Criteria	3.PoC ServerA send a SIP 488 "Not Acceptable Here" message to PoC User1.

8.2.1.27 PoC-1.0-con-S-0127 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with a CODEC and Media Parameters it supports

Test Case ID	PoC-1.0-con-S-0127
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 200 OK when it receives a SIP UPDATE with Media Parameters and CODECs that it supports.
Specification Reference	7.2.1.7
SCR Reference	PoCCPSpec-CTR-S-014
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0127
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User1 has the capability of updating the CODEC and Media Parameters while in a PoC session.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 accepts the invitation. 3. PoC User1 attempts to update the CODEC and Media Parameters for the session with a CODEC and Media Parameters that are supported by PoC ServerA.
Pass Criteria	3.PoC ServerA sends a SIP 200 OK message to PoC User1. 3.The 200 OK message contains the following: a. MIME SDP body with the selected CODECs b. MIME SDP body with the selected Media Parameters

8.2.1.28 PoC-1.0-con-S-0128 A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message from an unauthorized user

Test Case ID	PoC-1.0-con-S-0128
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" to the inviting PoC User if the inviting PoC user is not configured on this PoC Server.
Specification Reference	7.2.1.8, 7.2.1.14, 7.2.1.15
SCR Reference	PoCCPSpec-CRE-S-009, PoCCPSpec-CPO-S-002, PoCCPSpec-CPO-S-003, PoCCPSpec-CTR-S-016
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0128

Preconditions	PoC ServerA with an active account for PoC User1/2/3/9.
Test Procedure	1. PoC User9 initiates an Adhoc-group session to PoC User1 and PoC User2. 2. PoC User1 and PoC User2 accept the invitation. 3. The PoC Server administrator removes PoC User9 from PoC ServerA's database. 4. PoC User9 attempts to add PoC User3 to the ongoing PoC Session.
Pass Criteria	4.PoC ServerA sends a SIP 403 "Forbidden" message to PoC User9.

8.2.1.29 PoC-1.0-con-S-0129 – A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message to add users to an ongoing Pre-arranged PoC group session

Test Case ID	PoC-1.0-con-S-0129
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" to the inviting PoC User if the inviting PoC user is not allowed by the <allow-invite-users-dynamically> group policy of the PoC Group.
Specification Reference	7.2.1.8, 7.2.1.15
SCR Reference	PoCCPSpec-CPO-S-003, PoCCPSpec-CTR-S-016
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0129
Preconditions	PoC ServerA with an active account for PoC User1/2/3/4. PoC GroupK is owned by PoC ServerA. PoC U ser1, PoC User2, PoC User3, and PoC User4 are members of PoC GroupK. The <allow-invite-users-dynamically> property for PoC GroupK is set to "No".
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupK. 2. PoC User2 and PoC User3 accept the invitation. 3. PoC User4 rejects the invitation. 4. PoC User1 attempts to add PoC User4 to the ongoing session.
Pass Criteria	4.PoC ServerA sends a SIP 403 "Forbidden" message to PoC User1.

8.2.1.30 PoC-1.0-con-S-0130 – A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message to add users to an ongoing pre-arranged session but the session already contains the maximum number of participants

Test Case ID	PoC-1.0-con-S-0130
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 486 "Busy Here" when it receives a SIP REFER message to add users to an ongoing Adhoc session that has already exceeded the maximum number of participants.
Specification Reference	7.2.1.8
SCR Reference	PoCCPSpec-CTR-S-016
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0130

Preconditions	The <max-participant-count> property on PoC ServerA is set to 3. PoC ServerA with an active account for PoC User1/2/3/4. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, PoC User3, and PoC User4 are members of pre-arranged PoC GroupA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User2 and PoC User3 accept the invitation. 3. PoC User4 rejects the invitation. 4. PoC User1 attempts to add PoC User4 to the ongoing PoC Session.
Pass Criteria	4. PoC ServerA sends a SIP 486 "Busy Here" with a warning header "Too Many Participants" to PoC User1.

8.2.1.31 PoC-1.0-con-S-0131 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP REFER to add users to an ongoing PoC session

Test Case ID	PoC-1.0-con-S-0131
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 200 "OK" when it receives a SIP REFER for a PoC Session.
Specification Reference	7.2.1.8, 7.2.2.2
SCR Reference	PoCCPSpec-CTR-S-016
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0131
Preconditions	PoC ServerA with an active account for PoC User1/2/3/4.
Test Procedure	1. PoC User1 initiates an Adhoc-group session to PoC User2 and PoC User3. 2. PoC User2 and PoC User3 accept the invitation. 3. PoC User1 adds PoC User4 to the ongoing PoC Session.
Pass Criteria	3a. PoC ServerA sends a 200 "OK" to the originating user that conforms to the following: a. Includes the "norefersub" option tag in the Supported header if that tag was present in the Require header for the received SIP REFER 3b. The PoC server sends a SIP INVITE to the users that are in either the Refer-To header of the SIP REFER message or from the MIME resource-list body.

8.2.1.32 PoC-1.0-con-S-0132 – A Terminating PoC Server functioning as a Controlling server receives a SIP BYE request for a 1-1 PoC Session

Test Case ID	PoC-1.0-con-S-0132
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 200 "OK" when it receives a SIP BYE request and tears down the session.
Specification Reference	7.2.1.9.1, 7.2.2.4
SCR Reference	PoCCPSpec-CIR-S-007, PoCCPSpec-CTR-S-018
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0132
Preconditions	PoC ServerA with an active account for PoC User1/2.

Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 accepts the invitation. 3. PoC User1 gracefully terminates the session, which results in a SIP BYE message going to PoC ServerA.
Pass Criteria	3.PoC ServerA send a SIP 200 OK message PoC User1.

8.2.1.33 PoC-1.0-con-S-0133 – A Terminating PoC Server functioning as a Controlling server receives a SIP CANCEL request

Test Case ID	PoC-1.0-con-S-0133
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 200 "OK" when it receives a SIP CANCEL request and cancels the PoC Session if it has not yet been established
Specification Reference	7.2.1.10, 7.2.2.3
SCR Reference	PoCCPSpec-CIR-S-006, PoCCPSpec-CTR-S-020
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0133
Preconditions	PoC ServerA with an active account for PoC User1/2.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 does not accept the invitation. 3. PoC User1 cancels the invitation.
Pass Criteria	3.PoC ServerA sends a SIP 200 OK message to PoC User1.

8.2.1.34 PoC-1.0-con-S-0134 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE that contains an invalid Session Identity

Test Case ID	PoC-1.0-con-S-0134
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 404 "Not Found" when it receives a SIP SUBSCRIBE with a Request-URI that contains a PoC Session Identity that is not owned by this server.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0134
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA. PoC User1 is capable of subscribing to conference events. The PoC Session Identity in the Request-URI header of the SUBSCRIBE message does not exist on PoC ServerA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.PoC ServerA sends a SIP 404 "Not Found" message to PoC User1.

8.2.1.35 PoC-1.0-con-S-0135 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE that contains an invalid PoC Group Identity

Test Case ID	PoC-1.0-con-S-0135
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 404 "Not Found" when it receives a SIP SUBSCRIBE with a Request-URI that contains a PoC Group Identity that is not owned by this server.
Specification Reference	7.2.1.11.1, 7.5.2
SCR Reference	PoCCPSpec-CEH-S-002, PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0135
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA. PoC User1 is capable of subscribing to conference events. The PoC Group Identity in the Request-URI header of the SUBSCRIBE message does not exist on PoC ServerA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.PoC ServerA sends a SIP 404 "Not Found" message to PoC User1.

8.2.1.36 PoC-1.0-con-S-0136 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE with an invalid Accept-Contact header

Test Case ID	PoC-1.0-con-S-0136
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" when it receives a SIP SUBSCRIBE with an invalid Accept-Contact header.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0136
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA. PoC User1 is capable of subscribing to conference events. The "+g.poc.talkburst" feature tag is missing from the Accept-Contact header of the SUBSCRIBE message.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.PoC serverA returns a SIP 403 "Forbidden" message to PoC User1.

8.2.1.37 PoC-1.0-con-S-0137 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE and the Originator's PoC Address is does not exist on the PoC Server

Test Case ID	PoC-1.0-con-S-0137
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" when it receives a SIP SUBSCRIBE from a PoC User does not exist on this PoC Server.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0137
Preconditions	PoC ServerA with an active account for PoC User1/2/8. PoC User8 does not exist on PoC ServerA. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User8 are all members of PoC GroupA. PoC User8 is capable of subscribing to conference events.
Test Procedure	1. PoC User8 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User8 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.PoC ServerA sends a SIP 403 "Forbidden" message to PoC User8.

8.2.1.38 PoC-1.0-con-S-0138 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE and the Originator's PoC Address is not authorized

Test Case ID	PoC-1.0-con-S-0138
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" when it receives a SIP SUBSCRIBE from a PoC User whose "allow-conference-state" action does not permit this.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0138
Preconditions	PoC ServerA with an active account for PoC User1/2/3. PoC User3's <allow-conference-state> property is set to "No". Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA.
Test Procedure	1. PoC User3 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User3 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.PoC ServerA sends a SIP 403 "Forbidden" message to PoC User3.

8.2.1.39 PoC-1.0-con-S-0139 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for an Adhoc session

Test Case ID	PoC-1.0-con-S-0139
Test Object	PoC Server

Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server creates a subscription when it receives a valid SIP SUBSCRIBE.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0139
Preconditions	PoC ServerA with an active account for PoC User1/2/3.
Test Procedure	1. PoC User1 initiates an Adhoc-group session to PoC User2 and PoC User3. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly) to PoC ServerA.
Pass Criteria	1.A SIP 200 "OK" that conforms to the following is to PoC User1: a. The Contact header is set to the address of PoC serverA. b. The originator's PoC address is set to the conference-factory-uri.

8.2.1.40 PoC-1.0-con-S-0140 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for a Pre-arranged group session

Test Case ID	PoC-1.0-con-S-0140
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server creates a subscription when it receives a valid SIP SUBSCRIBE.
Specification Reference	7.2.1.11.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0140
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2.A SIP 200 "OK" that conforms to the following is sent POC User1: a. The Contact header is set to the address PoC ServerA. b. The originator's PoC address is set to the PoC Group Identity c. The Session Type uri-parameter is set to "session=prearranged".

8.2.1.41 PoC-1.0-con-S-0141 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for a Chat group session

Test Case ID	PoC-1.0-con-S-0141
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server creates a subscription when it receives a valid SIP SUBSCRIBE.
Specification Reference	7.2.1.11.1

SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0141
Preconditions	Chat PoC GroupG is owned by PoC ServerA. PoC User1 is authorized to call PoC Chat GroupG. PoC ServerA with an active account for PoC User1.
Test Procedure	1.PoC User1 initiates a Chat group session to PoC Chat GroupG. 2.PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation)
Pass Criteria	2. A 200 "OK" that conforms to the following is sent back to the subscriber: a. The Contact header is set to the address of PoC ServerA. b. The originator's PoC address is set to the PoC Group Identity. c. The Session Type uri-parameter is set to "session=chat".

8.2.1.42 PoC-1.0-con-S-0142 – A Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY when PoC User joins a PoC Session

Test Case ID	PoC-1.0-con-S-0142
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY when a PoC User joins a PoC Session.
Specification Reference	7.2.1.1
SCR Reference	PoCCPSpec-CTR-S-021
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0142
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User, PoC User2, and PoC User3 are members of Pre-arranged PoC GroupA. PoC User1 and PoC User3 have a subscription pending for PoC User2's conference state.
Test Procedure	1.PoC User1 initiates a Pre-arranged Group session to PoC GroupA. 2.PoC User2 accepts the invitation. 3.PoC User3 accepts the invitation.
Pass Criteria	3.PoC ServerA sends a NOTIFY to PoC User1 and PoC User3 informing that PoC User2 accepted the invitation. The NOTIFY contains the following: a. MIME conference-info+xml body with: I. The Identity of PoC GroupA in the "entity" attribute of the "conference info" element. II. A "user" element for PoC User2. The "user" element contains: i. An "entity" attribute with: 1. For PoC User1, the Authenticated originator's PoC Address of the initial SIP INVITE request if PoC User2 has not requested privacy. 2. If PoC User2 has requested privacy, it should include the "from" header.

	3. For PoC User3, the identity used in the URI-list for PoC User3 if it is an Adhoc Group session or the identity used in the PoC Group definition if it is a Pre-arranged Group or Restricted Chat group session, if PoC User1 has not requested privacy. 4. If PoC User1 has requested privacy, then it includes an anonymous identity. ii. A single "endpoint" element that contains: 1. The "entity" attribute. 2. The "status" element.

8.2.1.43 PoC-1.0-con-S-0143 – A Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY to terminate a PoC User's subscription

Test Case ID	PoC-1.0-con-S-0143
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY to terminate a PoC User's subscription when a PoC session ends.
Specification Reference	7.2.1.11.3
SCR Reference	PoCCPSpec-CTR-S-022
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0143
Preconditions	PoC ServerA with an active account for PoC User1/2/3. Pre-arranged PoC GroupA is owned by PoC ServerA. PoC User1, PoC User2, and PoC User3 are all members of PoC GroupA.
Test Procedure	1. PoC User1 initiates a Pre-arranged group session to PoC GroupA. 2. PoC User1 sends a SUBSCRIBE message (explicitly or implicitly, depending on implementation) 3. PoC User1, PoC User2, and PoC User3 all end the session.
Pass Criteria	3. PoC ServerA sends a SIP NOTIFY message to PoC User1, PoC User2, and PoC User3 and the Subscription-State header set to "terminated;noresources".

8.2.1.44 PoC-1.0-con-S-0144 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE and it does not support Group Advertisement (Includes Optional Features)

Test Case ID	PoC-1.0-con-S-0144
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends a SIP 403 "Forbidden" when it receives a SIP MESSAGE and it does not support Group Advertisement.
Specification Reference	7.2.1.12
SCR Reference	PoCCPSpec-CUO-S-001, PoCCPSpec-CUO-S-002, PoCCPSpec-CTR-S-026, PoCCPSpec-CBF-S-010
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0144

Preconditions	PoC ServerA does not support Group Advertisement. PoC ServerA with an active account for PoC User1.
Test Procedure	1.PoC User1 sends a Group Advertisement request to PoC ServerA.
Pass Criteria	1. PoC ServerA sends a SIP 403 "Forbidden" message to PoC User1.

8.2.1.45 PoC-1.0-con-S-0145 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE with an invalid Request-URI

Test Case ID	PoC-1.0-con-S-0145
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server sends a SIP 404 "Not Found" when it receives a SIP MESSAGE that contains an invalid Request-URI.
Specification Reference	7.2.1.12, 7.5.2
SCR Reference	PoCCPSpec-CEH-S-S-002, PoCCPSpec-CTR-S-026, PoCCPSpec-CBF-S-002, PoCCPSpec-CBF-S-010
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0145
Preconditions	PoC ServerA supports Group Advertisement. PoC ServerA with an active account for PoC User1. PoC GroupD is not owned by PoC ServerA.
Test Procedure	1.PoC User1 sends a Group Advertisement request to PoC ServerA for PoC GroupD.
Pass Criteria	1. PoC ServerA sends a SIP 404 "Not Found" message to PoC User1.

8.2.1.46 PoC-1.0-con-S-0146 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE with an Originator PoC Address that is incorrect

Test Case ID	PoC-1.0-con-S-0146
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 403 "Forbidden" when it receives a SIP MESSAGE and the originator's PoC address is invalid.
Specification Reference	7.2.1.12
SCR Reference	PoCCPSpec-CUO-S-001, PoCCPSpec-CUO-S-002, PoCCPSpec-CTR-S-026, PoCCPSpec-CBF-S-010
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0146
Preconditions	PoC ServerA supports Group Advertisement. PoC ServerA with an active account for PoC User8. PoC User8 is not configured on PoC ServerA. PoC GroupC is owned by PoC ServerA
Test Procedure	1.PoC User8 sends a Group Advertisement request to PoC ServerA for PoC GroupC.
Pass Criteria	1.PoC ServerA sends a SIP 403 "Forbidden" message to PoC User8.

8.2.1.47 PoC-1.0-con-S-0147 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP MESSAGE

Test Case ID	PoC-1.0-con-S-0147

Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a SIP 202 "Accepted" to the initiating PoC Client and a SIP MESSAGE request to each member of the PoC Group when it receives a valid SIP MESSAGE.
Specification Reference	7.2.1.12, 7.2.2.6
SCR Reference	PoCCPSpec-CTR-S-026, PoCCPSpec-CBF-S-010
Tool	PoC Conformance Tool6
Test code	Validated test code for test case PoC-1.0-con-S-0147
Preconditions	PoC ServerA supports Group Advertisement. PoC ServerA with an active account for PoC User1. PoC User1, PoC User2, and PoC User3 are members of PoC GroupC. PoC GroupC is owned by PoC ServerA
Test Procedure	1.PoC User1 sends a Group Advertisement request to PoC ServerA for PoC GroupC.
Pass Criteria	1a. PoC ServerA sends a SIP 202 "Accepted" message to PoC User1. 1b. PoC ServerA sends a SIP MESSAGE message to PoC User2 and PoC User3. The message conforms to the following: a. The Accept-Contact header contains the feature tag "+g.poc.grouped". b. The Accept-Contact header contains the "require" and "explicit" parameters. c. Contains PoC specific content in the form of "application/vnd.poc.advertisement+xml" indicating 'Group Advertisement'. d. The Request-URI contains the PoC Address

8.2.1.48 PoC-1.0-con-S-0148 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE message

Test Case ID	PoC-1.0-con-S-0148
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Controlling server returns a 200 "OK" when it receives a SIP UPDATE message.
Specification Reference	7.2.1.13, 7.2.2.5
SCR Reference	PoCCPSpec-CTR-S-029
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0148
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User1 has a 2 minute session timer configured. PoC ServerA allows a 2 minute session timer.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2. 2.PoC User2 accepts the invitation. 3.After 1 minute 45 seconds, PoC User1 sends a SIP UPDATE (implicitly or explicitly, depending on implementation).
Pass Criteria	1.PoC ServerA sends a SIP 200 "OK" message to PoC User1 with a Session-Expires header that has the refresher parameter set to 'uac'.

8.2.2 Requests Initiated by the Controlling PoC Function

8.2.2.1 PoC-1.0-con-S-0175 – An Originating PoC Server functioning as a Controlling server needs to remove a participant from a PoC session

Test Case ID	PoC-1.0-con-S-0175
Test Object	PoC Server
Test Case Description	Verify that a Originating PoC Server functioning as a Controlling server sends a SIP BYE when it needs to remove a participant from a PoC session.
Specification Reference	7.2.2.3
SCR Reference	
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0175
Preconditions	PoC ServerA with an active account for PoC User1/2.
Test Procedure	1. PoC User1 initiates a 1-1 session to PoC User2. 2. PoC User2 accepts the invitation. 3. PoC User1 gracefully terminates the session, which results in a SIP BYE message going to PoC ServerA.
Pass Criteria	3.PoC ServerA sends a SIP BYE message to PoC User2.

8.2.2.2 PoC-1.0-con-S-0176 – An Originating PoC Server functioning as a Controlling server sends a SIP UPDATE

Test Case ID	PoC-1.0-con-S-0176
Test Object	PoC Server
Test Case Description	Verify that an Originating PoC Server functioning as a Controlling server sends an UPDATE when it needs to modify an ongoing PoC session..
Specification Reference	7.2.2.5
SCR Reference	
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0176
Preconditions	PoC ServerA with an active account for PoC User1/2. PoC User1 has the capability of updating the CODEC and Media Parameters while in a PoC session.
Test Procedure	1.PoC User1 initiates a 1-1 session to PoC User2. 2.PoC User2 accepts the invitation. 3.PoC User1 attempts to update the CODEC and Media Parameters for the session with a CODEC and Media Parameters that are supported by PoC ServerA.
Pass Criteria	3. PoC ServerA sends a SIP UPDATE message to PoC User2 and the message contains a MIME SDP body with the modified Media Parameters and/or CODEC.

8.3 Participating PoC Function Procedures

8.3.1 Requests Terminated to the Participating PoC Function

8.3.1.1 PoC-1.0-con-S-0200 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with an invalid Accept-Contact header

Test Case ID	PoC-1.0-con-S-0200
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 403 “Forbidden” when it receives a SIP INVITE with an invalid Accept-Contact header.
Specification Reference	7.3.1.1
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0200
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. The Accept-Contact header in the INVITE message does not contain the +g.poc.talkburst feature tag.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD.
Pass Criteria	1.PoC ServerC sends a SIP 403 “Forbidden” message to PoC User10.

8.3.1.2 PoC-1.0-con-S-0201 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with an incorrect inviting user PoC address

Test Case ID	PoC-1.0-con-S-0201
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 403 “Forbidden” when it receives a SIP INVITE with an unconfigured PoC address of the inviting user.
Specification Reference	7.3.1.1
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0201
Preconditions	PoC ServerC with an active account for PoC User18/19. PoC User18 is not configured in PoC ServerC. PoC GroupD is not owned by PoC ServerC. PoC User18 and PoC User19 are members of PoC GroupD.
Test Procedure	1.PoC User18 initiates a Pre-arranged group session request to PoC GroupD.
Pass Criteria	1.PoC ServerC sends a SIP 403 “Forbidden” message to PoC User18.

8.3.1.3 PoC-1.0-con-S-0202 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with unsupported Media Parameters

Test Case ID	PoC-1.0-con-S-0202
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 488 "Not Acceptable Here" when it receives a SIP INVITE with media parameters it does not support.
Specification Reference	7.3.1.1
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0202
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. The SDP in the SIP INVITE contains Media Parameters and/or a CODECs that are not supported by PoC ServerC.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD.
Pass Criteria	1.PoC ServerC sends a SIP 488 "Not Acceptable Here" message to PoC User10.

8.3.1.4 PoC-1.0-con-S-0203 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with a MAO request from a user who is not authorized for MAO

Test Case ID	PoC-1.0-con-S-0203
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 403 "Forbidden" when it receives an INVITE with MAO from a PoC User who is not authorized for MAO.
Specification Reference	7.3.1.1
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0203
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. PoC User11 is not authorized for MAO by PoC ServerC.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD.
Pass Criteria	1.PoC ServerC sends a SIP 403 "Forbidden" message to PoC User10.

8.3.1.5 PoC-1.0-con-S-0204 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE for a simultaneous session after the user has reach the limit for simultaneous sessions

Test Case ID	PoC-1.0-con-S-0204
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 486 "Busy Here" when it receives an INVITE for a simultaneous

	session after the PoC User has exceeded the limit for simultaneous sessions.
Specification Reference	7.3.1.1
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0204
Preconditions	PoC ServerC with an active account for PoC User10/11/12/13. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. The limit for simultaneous session for PoC User10 is set to 2 on PoC ServerC.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation. 3. PoC User10 places the session on hold and initiates a 1-1 session to PoC User12. 4. PoC User12 accepts. 5. PoC User10 places the session on hold and initiates a 1-1 session to PoC User13.
Pass Criteria	5.PoC ServerC sends a SIP 486 "Busy Here" message with a warning text of "too many Simultaneous PoC Sessions" to PoC User10.

8.3.1.6 PoC-1.0-con-S-0205 – A Terminating PoC Server functioning as a Participating server receives a valid SIP INVITE

Test Case ID	PoC-1.0-con-S-0205
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends out a terminating SIP INVITE with a unique PoC Session Id when it receives a valid SIP INVITE for 1-1 session with Media Parameters that it supports.
Specification Reference	7.3.1.1, 7.3.1.4, 7.3.2.2
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006, PoCCPSpec-PTR-S-001
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0205
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD.
Pass Criteria	1a. PoC ServerC sends a SIP INVITE message to the Controlling PoC Server that conforms to the following: a. If the incoming INVITE contains a Privacy header, this header is copied to the outgoing INVITE. b. Set the nickname in the Authenticated Originator's PoC Address to the one defined for PoC User10 in the PoC Server, if configured; otherwise, set the nick name in the Authenticated Originator's PoC Address to the one in the incoming SIP INVITE. c. Contains an Accept-Contact header with the "+g.poc.talkburst" feature tag. d. Contains an Accept-Contact header with the "require" and "explicit" parameters.

	e. Contains a User-Agent header that contains the PoC release. f. Contains a Supported header with the option tag "timer". g. Contains all the SIP methods it receives in the Allow header. h. Contains the Authenticated Originator's PoC Address received in the incoming SIP INVITE. i. Discard the P-Alerting-Mode header if it is set to anything other than "MAO". j. Contains a URI identifying its own address and the PoC feature-tag +g.poc.talkburst in the Contact header or the outgoing SIP INVITE 1b. Contains a MIME SDP body with: a. The IP address and port number at the PoC Server for the RTP session. b. The CODEC and Media Parameters. c. The IP Address and port number to be used for RTCP is something other than the default is to be used. d. The offered Talk Burst Control Protocol and Talk Burst parameters selected by the PoC Server from the SDP of the incoming INVITE. e. The PoC Server's port number for the Talk Burst Control Protocol.

8.3.1.7 PoC-1.0-con-S-0206 – A Terminating PoC Server functioning as a Participating server receives a SIP 180 "Ringing" from a served PoC User

Test Case ID	PoC-1.0-con-S-0206
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends out a SIP 180 "Ringing" message to the served party (e.g., Served PoC User or Controlling PoC Server).
Specification Reference	7.3.1.1, 7.3.1.4, 7.3.2.2
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006, PoCCPSpec-PTR-S-001, PoCCPSpec-PIR-S-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0206
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC ServerC will receive a SIP 180 "Ringing" message from the network.
Pass Criteria	1. A SIP 180 "Ringing" is sent back to the served party ((e.g., Served PoC User or Controlling PoC Server). 2. The 180 "Ringing" message conforms to the following: a. Contains the appropriate server headers and User-Agent b. The originator's PoC address contained in the originating request.

	c. The Contact header contains the feature-tag +g.poc.talkburst and the Session Type parameter is set to the whatever was set in the originating message

8.3.1.8 PoC-1.0-con-S-0207 – A Terminating PoC Server functioning as a Participating server receives a SIP 200 "OK"

Test Case ID	PoC-1.0-con-S-0207
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends out a SIP 200 "OK" message to the inviting user when it receives a SIP 200 "OK" from the Controlling PoC server.
Specification Reference	7.3.1.1, 7.3.1.4, 7.3.2.2
SCR Reference	PoCCPSpec-PIR-S-001, PoCCPSpec-PIR-S-006, PoCCPSpec-PTR-S-001, PoCCPSpec-PIR-S-002
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0207
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation.
Pass Criteria	2a. PoC ServerC will send a SIP 200 "OK" message to the served party that conforms to the following: a. Contains a Server header that contains the PoC release version. b. Contains Require header with the option tag "timer". c. Contains a Session-Expires header with the refresher parameter set to "uac". d. Contains a SIP URI in the Contact header that: i. Is constructed such that the PoC Server can also resolve it back to the original SIP URI provided in the Contact header of the SIP 200 "OK" received from the Controlling PoC server. ii. Contains the feature tag "+g.poc.talkburst". iii. Contains the Session Type uri-parameter provided in the Contact header of the SIP 200 "OK" received from the Controlling PoC Server. e. Contains the Authenticated Originator's PoC Address received in the incoming SIP 200 "OK". f. Contains an unmodified P-Answer-State header if one was sent in the incoming 200 "OK". 2b. The 200 "OK" contains a MIME SDP body that: a. The IP address and port number at the PoC Server for the RTP session. b. The CODEC and Media Parameters contained in the incoming 200 "OK" message.

	c. The IP Address and port number to be used for RTCP is something other than the default is to be used. d. The offered Talk Burst Control Protocol and Talk Burst parameters selected by the PoC Server from the SDP of the incoming 200 "OK" message. e. The PoC Server's port number for the Talk Burst Control Protocol.

8.3.1.9 PoC-1.0-con-S-0208 – A Terminating PoC Server functioning as a Participating server receives a SIP UPDATE with Media Parameters it does not support

Test Case ID	PoC-1.0-con-S-0208
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 488 "Not Acceptable Here" when it receives a SIP UPDATE with Media Parameters that it does not support.
Specification Reference	7.3.1.6, 7.3.2.3
SCR Reference	PoCCPSpec-PIR-S-008
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0208
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation. 3. PoC User10 attempts to UPDATE the CODEC for the session with one that is not supported by PoC ServerC.
Pass Criteria	3.PoC ServerC sends a SIP 488 "Not Acceptable Here" message to the served party.

8.3.1.10 PoC-1.0-con-S-0209 – A Terminating PoC Server functioning as a Participating server receives a valid SIP UPDATE

Test Case ID	PoC-1.0-con-S-0209
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends the SIP UPDATE request to the Controlling PoC Server within the same dialog of the existing session.
Specification Reference	7.3.1.6, 7.3.2.3
SCR Reference	PoCCPSpec-PIR-S-008, PoCCPSpec-PTR-S-007
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0209
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation. 3. PoC User10 attempts to UPDATE the CODEC for the session with one that is supported by PoC ServerC.

Pass Criteria	3.PoC ServerC sends a SIP UPDATE message to the served party and includes the MIME SDP body from the incoming UPDATE.

8.3.1.11 PoC-1.0-con-S-0210 – A Terminating PoC Server functioning as a Participating server receives a SIP CANCEL

Test Case ID	PoC-1.0-con-S-0210
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server cancels the SIP INVITE by sending a SIP CANCEL request to the Controlling PoC Server.
Specification Reference	7.3.1.9, 7.3.2.5
SCR Reference	PoCCPSpec-PIR-S-015, PoCCPSpec-PTR-S-009
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0210
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD and then immediately cancels the request.
Pass Criteria	1.PoC ServerC sends a SIP CANCEL to the Controlling PoC server.

8.3.1.12 PoC-1.0-con-S-0211 – A Terminating PoC Server functioning as a Participating server receives a SIP BYE

Test Case ID	PoC-1.0-con-S-0211
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP BYE request to the Controlling PoC Server and a SIP 200 “OK” to the requesting PoC User.
Specification Reference	7.3.1.10.1, 7.3.2.6.1
SCR Reference	PoCCPSpec-PIR-S-016, PoCCPSpec-PTR-S-010
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0211
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation. 3. PoC User10 ends the session.
Pass Criteria	2. PoC ServerC sends a SIP 200 “OK” message to PoC User10. 3. PoC ServerC sends a SIP BYE message to the Controlling PoC server.

8.3.1.13 PoC-1.0-con-S-0212 – A Terminating PoC Server functioning as a Participating server receives a SIP MESSAGE with an Originator PoC Address that is not authorized for Group Advertisement

Test Case ID	PoC-1.0-con-S-0212
Test Object	PoC Server

Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 403 "Forbidden" when it receives a SIP MESSAGE and the originator's PoC address is not authorized for Group Advertisement.
Specification Reference	7.3.1.11
SCR Reference	PoCCPSpec-CRE-S-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0212
Preconditions	PoC ServerC supports Group Advertisement. PoC ServerC with an active account for PoC User11. PoC GroupC is not owned by PoC ServerC. PoC User11 is not authorized to send Group Advertisements for PoC GroupC.
Test Procedure	1.PoC User11 sends a Group Advertisement request to PoC ServerC for PoC GroupC.
Pass Criteria	1.PoC ServerC sends a SIP 403 "Forbidden" message to PoC User11.

8.3.1.14 PoC-1.0-con-S-0213 – A Terminating PoC Server functioning as a Participating server receives a SIP MESSAGE and anonymity is requested

Test Case ID	PoC-1.0-con-S-0213
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server returns a 403 "Forbidden" when it receives a SIP MESSAGE and anonymity is requested.
Specification Reference	7.3.1.11
SCR Reference	PoCCPSpec-CRE-S-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0213
Preconditions	PoC ServerC supports Group Advertisement. PoC ServerC with an active account for PoC User11. PoC GroupC is not owned by PoC ServerC.
Test Procedure	1.PoC User11 sends a Group Advertisement request to PoC ServerC for PoC GroupC and requests anonymity.
Pass Criteria	1.PoC ServerC sends a SIP 403 "Forbidden" message to PoC User11.

8.3.1.15 PoC-1.0-con-S-0214 – A Terminating PoC Server functioning as a Participating server receives a valid SIP MESSAGE

Test Case ID	PoC-1.0-con-S-0214
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends the SIP MESSAGE message to the SIP/IP core.
Specification Reference	7.3.1.11, 7.3.2.7
SCR Reference	PoCCPSpec-CRE-S-011
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0214
Preconditions	PoC ServerC supports Group Advertisement. PoC ServerC with an active account for PoC User11. PoC GroupC is not owned by PoC ServerC.

Test Procedure	1.PoC User11 sends a Group Advertisement request to PoC ServerC for PoC GroupC.
Pass Criteria	1.PoC ServerC sends a SIP MESSAGE message to the served party.

8.3.1.16 PoC-1.0-con-S-0215 – A Terminating PoC Server functioning as a Participating server sends a SIP BYE upon SIP Session Timer Expiry

Test Case ID	PoC-1.0-con-S-0215
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends the SIP BYE message to the server PoC User and the Controlling PoC Server upon expiry of the SIP Session timer.
Specification Reference	7.3.1.13
SCR Reference	PoCCPSpec-PIR-S-023
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0215
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. PoC User10 is configured with a session expiry timer of 2 minutes. PoC ServerC is able to accept a session expiry timer of 2 minutes. PoC User10 is configured to not update the session timer prior to its expiration.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the invitation. 3. The PoC session continues for 2 minutes.
Pass Criteria	3a. PoC ServerC sends a SIP BYE message to PoC User10. 3b. PoC ServerC sends a SIP BYE message to the Controlling PoC Server.

8.3.1.17 PoC-1.0-con-S-0216 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid Accept-Contact header

Test Case ID	PoC-1.0-con-S-0216
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP 403 "Forbidden" message to the served PoC User if it receives a SIP PUBLISH with an invalid Accept-Contact header.
Specification Reference	7.3.1.14
SCR Reference	PoCCPSpec-PIR-S-024
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0216
Preconditions	PoC ServerC with an active account for PoC User10. The Accept-Contact header does not contain the +g.poc.talkburst feature-tag in PoC User10's poc-settings PUBLISH request.
Test Procedure	1.PoC User10 sends a SIP PUBLISH message with the Event header set to "poc-settings" to PoC ServerC.
Pass Criteria	1.PoC ServerC sends a SIP 403 "Forbidden" message to PoC User10.

8.3.1.18 PoC-1.0-con-S-0217 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid Event header

Test Case ID	PoC-1.0-con-S-0217
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP 489 "Bad Event" message to the served PoC User if it receives a SIP PUBLISH with an invalid Accept-Contact header.
Specification Reference	7.3.1.14
SCR Reference	PoCCPSpec-PIR-S-024
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0217
Preconditions	PoC ServerC with an active account for PoC User10. The Event header does not contain the the "poc-settings" value.
Test Procedure	1.PoC User10 sends a SIP PUBLISH message with the Event header set to PoC ServerC.
Pass Criteria	1.PoC ServerC sends a SIP 489 "Bad Event" message to PoC User10.

8.3.1.19 PoC-1.0-con-S-0218 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid originating user address

Test Case ID	PoC-1.0-con-S-0218
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP 403 "Forbidden" message to the served PoC User if it receives a SIP PUBLISH with an originator user address.
Specification Reference	7.3.1.14
SCR Reference	PoCCPSpec-PIR-S-024
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0218
Preconditions	PoC ServerC without an active account for PoC User18..
Test Procedure	1.PoC User18 sends a poc-settings SIP PUBLISH message to PoC ServerC.
Pass Criteria	1.PoC ServerC sends a SIP 403 "Forbidden" message to PoC ServerC.

8.3.1.20 PoC-1.0-con-S-0219 – A Terminating PoC Server functioning as a Participating server receives a valid PoC SIP Settings' PUBLISH request

Test Case ID	PoC-1.0-con-S-0219
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP 200 "OK" message to the served PoC User if it receives a valid SIP PUBLISH message.
Specification Reference	7.3.1.14
SCR Reference	PoCCPSpec-PIR-S-024
Tool	PoC Conformance Tool

Test code	Validated test code for test case PoC-1.0-con-S-0219
Preconditions	PoC ServerC with an active account for PoC User10.
Test Procedure	1.PoC User10 sends a poc-settings SIP PUBLISH message to PoC ServerC.
Pass Criteria	1.PoC ServerC sends a SIP 200 "OK" message to PoC User10.

8.3.2 Requests Initiated by the Participating PoC Function

8.3.2.1 PoC-1.0-con-S-0251 – A Terminating PoC Server functioning as a Participating server receives a 1-1 session SIP INVITE with Auto-Answer (Includes Optional Features)

Test Case ID	PoC-1.0-con-S-0251
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP 183 "Session Progress" to the served PoC User and a SIP INVITE to the Controlling PoC Server.
Specification Reference	7.3.2.2.2
SCR Reference	PoCCPSpec-PTR-S-003
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0251
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. PoC User11 is set up for Auto-answer. PoC User11 has PoC User10 in his access list and is set to auto.
Test Procedure	1.PoC User10 initiates a Pre-arranged group session to PoC GroupD.
Pass Criteria	1a. PoC ServerC sends a SIP 183 "Session Progress" containing a P-Answer-State header with a value set to "Unconfirmed" to the served user. 1b. PoC ServerC sends a SIP INVITE message to the Controlling PoC Server that conforms to the following: a. If the P-Alerting-Mode header value in the incoming INVITE is set to "MAO", and PoC User10 is authorized for MAO, the outgoing INVITE contains a P-Alerting-Mode header with the value set to "MAO". b. If The P-Alerting-Mode header is not present, or if PoC User10 is not authorized for MAO, the outgoing INVITE contains a P-Alerting-Mode header with the value set to "auto". c. Contains a MIME SDP body with the following: i. The IP address and port number at the PoC Server for the RTP session. ii. The CODEC(s) and Media Parameters from the incoming INVITE that the PoC Server supports. iii. The IP address and port number for RTCP it the default is not being used. iv. The Talk Burst Control Protocol used for the session along with the port number to be used. d. Contains a Referred-By header from the incoming SIP

	INVITE e. Contains a Privacy header with the value set to "id" if anonymity is not requested.

8.3.2.2 PoC-1.0-con-S-0252 – A Terminating PoC Server functioning as a Participating server sends a SIP NOTIFY

Test Case ID	PoC-1.0-con-S-0252
Test Object	PoC Server
Test Case Description	Verify that a Terminating PoC Server functioning as a Participating server sends a SIP NOTIFY to the served PoC User if it receives a SIP NOTIFY in the same dialog as the previously sent SIP SUBSCRIBE.
Specification Reference	7.3.2.4
SCR Reference	
Tool	PoC Conformance Tool
Test code	Validated test code for test case PoC-1.0-con-S-0252
Preconditions	PoC ServerC with an active account for PoC User10/11. Pre-arranged PoC GroupD is not owned by PoC ServerC. PoC User10 and PoC User11 are members of Pre-arranged PoC GroupD. PoC User10 has a subscription pending for PoC User11's conference state.
Test Procedure	1. PoC User10 initiates a Pre-arranged group session to PoC GroupD. 2. PoC User11 accepts the session.
Pass Criteria	2.PoC ServerA sends the SIP NOTIFY message to PoC User11 when it receives this message from the Controlling PoC Server.

Appendix A. Change History (Informative)

A.1 Approved Version History

Document Identifier	Date	Sections	Description
OMA-ETS-POC-CON-V1_0-20051020-A	20 Oct 2005	Header and document name	First TP Approved ETS CON version, in TP#14 Sydney meeting.

A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
OMA-ETS-POC-CON-V1_0	02 Mar 2006	7.1.3.1 6.5.8 6.2.3.5 5.2.1.1.2 6.1.1 6.2.3.1 7.1.2.1 7.1.2.2 Appendix 1 6.2.4.5 7.3.1.1 7.3.1.2 6.1.1 6.3.2.2 3.4.1 5.1.3.3 5.1.3.4 5.1.3.5 5.1.3.6 5.1.3.8 5.2.1.1.1 5.2.1.1.2 5.2.1.1.3 5.2.1.1.4 5.2.1.1.5 5.2.1.1.6 5.2.1.1.7 5.2.1.1.8 5.2.1.1.9 5.2.1.1.10	OMA-IOP-MEC-2005-0023R01 OMA-IOP-MEC-2005-0031R01 OMA-IOP-MEC-2006-0027 OMA-IOP-MEC-2006-0028 OMA-IOP-MEC-2006-0035R01 OMA-IOP-MEC-2006-0044R01 OMA-IOP-MEC-2006-0048 OMA-IOP-MEC-2006-0062 OMA-IOP-MEC-2006-0091 OMA-IOP-POC-2005-0247 OMA-IOP-POC-2005-0261 OMA-IOP-POC-2005-0262
OMA-ETS-POC-CON-V1_0	02 Mar 2006	5.1.1.1 5.1.1.2 5.1.1.4 5.1.1.5 5.1.2.1 5.1.3.1 5.1.3.2	OMA-IOP-POC-2005-0263R02
OMA-ETS-POC-CON-V1_0	02 Mar 2006	5.1.3.1 5.1.3.3 5.1.3.4 5.1.3.5 5.1.3.6 5.1.3.8	OMA-IOP-POC-2005-0276R01

OMA-ETS-POC-CON-V1_0	02 Mar 2006	5.11.1 5.11.2 5.11.3 5.11.4 5.11.5 5.1.2.1 5.1.3.1 5.1.3.2 5.1.3.3 5.1.3.4 5.1.3.5 5.1.3.6 5.1.3.7 5.1.3.8 5.2.1.1.1 5.2.1.1.2	OMA-IOP-POC-2005-0280
OMA-ETS-POC-CON-V1_0	02 Mar 2006	8.1.2, 8.2, 8.3	OMA-IOP-POC-2005-0253R01
		6.2.3.1, 6.2.3.2, 6.2.3.2 6.3.1.1 6.3.1.2 6.3.1.3 6.3.4.1 6.3.4.2 6.3.5.1, 6.4	OMA-IOP-MEC-2005-0032R02
OMA-ETS-POC-CON-V1_0	02 Mar 2006	7.1.2.4, A.1	OMA-IOP-MEC-2006-0045
OMA-ETS-POC-CON-V1_0	06 Apr 2006	n/a	IOP-MEC agreed the updated ETS: OMA-IOP-MEC-2006-0148R01

OMA-ETS-POC-CON-V1_0	13 Jun 2006	n/a 7.2.1.1, 7.2.1.2, 7.2.1.3, 7.2.1.4, 7.3.1.2 7.2.1.4 3.4.1 7.1.1.2 7.2.1.4 Appendix A1 5.1.3.1 5.1.3.2 5.1.3.3 5.1.3.4 5.1.3.5 5.2.1.1 5.1.4.3 5.1.4.4 6.3.3.2 5.2.1.1 6.6.8 5.1.1.1 5.1.1, 5.1.2 5.1.3 6.6.8 6.2.1.11 7.1.3.3 6.2.1.1 7.1.3.1 5.1.3.1 5.1.3.3 5.1.3.6 5.1.3.7 D.1.17.3.1.1, 7.3.1.2	Incorporated CRs: OMA-IOP-MEC-2006-0065 OMA-IOP-MEC-2006-0166 OMA-IOP-MEC-2006-0182 OMA-IOP-MEC-2006-0183 OMA-IOP-MEC-2006-0196 OMA-IOP-MEC-2006-0123R01 OMA-IOP-MEC-2006-0216 OMA-IOP-MEC-2006-0217R01 OMA-IOP-MEC-2006-0218R01 OMA-IOP-MEC-2006-0219 OMA-IOP-MEC-2006-0220 OMA-IOP-MEC-2006-0237 OMA-IOP-MEC-2006-0242 OMA-IOP-MEC-2006-0244 OMA-IOP-MEC-2006-0263R01 OMA-IOP-MEC-2006-0274 OMA-IOP-MEC-2006-0274 OMA-IOP-MEC-2006-0291R03 OMA-IOP-MEC-2006-0325 OMA-IOP-MEC-2006-0329 OMA-IOP-MEC-2006-0331R02 OMA-IOP-MEC-2006-0332OMA-IOP-MEC-2006-0323R02 Corrected XCAP reference Editorial changes
Candidate OMA-ETS-POC-CON-V1_0	16 Jun 2006	n/a	Status changed to Candidate OMA-TP-2006-0238R01-INP_ETS_PoC_V1_0_CON_for_Candidate_Approval

Draft version OMA-ETS-POC-CON-V1_0	09 Nov 2006	3.5, 3.5.2, 3.5.3, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 5.1.4.1, 5.1.4.2, 5.2.1.1.5 5.2.1.1.6 5.2.1.1.7 6.1.1, 6.2.1.1, 6.2.1.2, 6.2.1.3, 6.2.1.4, 6.2.1.5, 6.2.1.6, 6.2.1.8, 6.2.1.11, 6.2.4.5, 6.5.1.1 6.5.1.2, 6.5.1.3, 6.5.2.2, 6.5.2.3, 6.5.3.1 6.5.3.2 7, 8.2.1.5 Annex B,	Incorporated CRs: OMA-IOP-MEC-2006-0343 OMA-IOP-MEC-2006-0358R02 OMA-IOP-MEC-2006-0382 OMA-IOP-MEC-2006-0387 OMA-IOP-MEC-2006-0388 OMA-IOP-MEC-2006-0389 OMA-IOP-MEC-2006-0393R01 OMA-IOP-MEC-2006-0405 OMA-IOP-MEC-2006-0406R02 OMA-IOP-MEC-2006-0407R01 OMA-IOP-MEC-2006-0408R01 OMA-IOP-MEC-2006-0418 OMA-IOP-MEC-2006-0439R01 OMA-IOP-MEC-2006-0447R01 OMA-IOP-MEC-2006-0449R01
	16 Nov 2006	n/a	Agreed in IOP
Candidate Version: OMA-ETS-PoC_CON-V1_0	16 Nov 2006	n/a	Status changed to Candidate OMA-TP-2006-0415- INP_OMA_ETS_PoC_CON_V1_0_for_reapproval_as_Candidate

Appendix B. SCR – Test Case mapping table (Informative)

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoCCPSpec-COP-C-001	General registration to SIP/IP Core	6.1.1.1	M	PoCCPSpec-COP-C-002 OR PoCCPSpec-COP-C-003	PoC-1.0-con-C-0001 PoC-1.0-con-C-0002
PoCCPSpec-COP-C-002	Registration per 3GPP IMS	6.1.1.2	O		PoC-1.0-con-C-0005, PoC-1.0-con-C-0006
PoCCPSpec-COP-C-003	Registration per 3GPP2 MMD	6.1.1.2	O		
PoCCPSpec-COP-C-004	Deregister with options	6.1.1.3	M		PoC-1.0-con-C-0003, PoC-1.0-con-C-0004
PoCCPSpec-CSP-C-001	PoC service Setting Procedure – initiation of SIP PUBLISH request	6.1.2	M		PoC-1.0-con-C-0021
PoCCPSpec-CSI-C-001	General Initiation – SIP INVITE request	6.1.3.1	M		PoC-1.0-con-C-0042, PoC-1.0-con-C-0043,
PoCCPSpec-CSI-C-002	SIP Session Timer	6.1.3.1	M		
PoCCPSpec-CSI-C-003	Pre-established Session establishment	6.1.3.2	O	PoCCPSpec-CSI-C-004 AND PoCCPSpec-CSI-C-005 AND PoCCPSpec-CSI-C-006	PoC-1.0-con-C-0034
PoCCPSpec-CSI-C-004	PoC Client Pre-established Session initiation	6.1.3.2.1	O	PoCCPSpec-CSI-C-003	PoC-1.0-con-C-0034
PoCCPSpec-CSI-C-008	PoC Client Pre-arranged or Chat PoC Group Session (receiving SIP REFER request)	6.1.3.2.3	O	PoCCPSpec-CSI-C-003	PoC-1.0-con-C-0034
PoCCPSpec-CSI-C-010	Establishment of an On-Demand Session	6.1.3.3	M		PoC-1.0-con-C-0042, PoC-1.0-con-C-0043,
PoCCPSpec-CSI-C-011	Ad-hoc PoC Group Session and 1-1 PoC Session setup (receiving request)	6.1.3.3.1	M		PoC-1.0-con-C-0042, PoC-1.0-con-C-0046, PoC-1.0-con-C-0047
PoCCPSpec-CSI-C-013	Ad-hoc PoC Group Session and 1-1 PoC Session setup (receiving SIP 200OK response)	6.1.3.3.1	M		PoC-1.0-con-C-0042
PoCCPSpec-CSI-C-014	Ad-hoc PoC Group Session and 1-1 PoC Session setup for Unconfirmed Indication	6.1.3.3.1	O		PoC-1.0-con-C-0047
PoCCPSpec-CSI-C-016	Pre-arranged PoC Group Session setup	6.1.3.3.2	M		PoC-1.0-con-C-0044

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoCCPSpec-CSI-C-017	Chat PoC Group Session setup	6.1.3.3.2	M		PoC-1.0-con-C-0045
PoCCPSpec-CUO-C-001	PoC Client Adding a User to a PoC Session (SIP REFER)	6.1.7	M		PoC-1.0-con-C-0101, PoC-1.0-con-C-0103
PoCCPSpec-CUO-C-006	Canceling a PoC Session initiation - on-demand case	6.1.11.1	M		PoC-1.0-con-C-0111
PoCCPSpec-CTP-C-001	PoC Client invited to a PoC Session: General INVITE procedure	6.2.1.1	M		PoC-1.0-con-C-0153, PoC-1.0-con-C-0152, PoC-1.0-con-C-0153, PoC-1.0-con-C-0157, PoC-1.0-con-C-0158, PoC-1.0-con-C-0159, PoC-1.0-con-C-0160
PoCCPSpec-CTP-C-002	PoC Client invited to a PoC Session: Automatic Answer Mode OR Manual Answer Mode	6.2.1.2 6.2.1.3	M	PoCCPSpec-CTP-C-003 OR PoCCPSpec-CTP-C-004	PoC-1.0-con-C-0151, PoC-1.0-con-C-0152, PoC-1.0-con-C-0153, PoC-1.0-con-C-0154, PoC-1.0-con-C-0155, PoC-1.0-con-C-0156, PoC-1.0-con-C-0157
PoCCPSpec-CTP-C-003	PoC Client invited to a PoC Session: Automatic Answer Mode set	6.2.1.2	O		PoC-1.0-con-C-0151, PoC-1.0-con-C-0152,
PoCCPSpec-CTP-C-004	PoC Client invited to a PoC Session: Manual answer	6.2.1.3	O		PoC-1.0-con-C-0154, PoC-1.0-con-C-0155, PoC-1.0-con-C-0156, PoC-1.0-con-C-0157
PoCCPSpec-CTP-C-005	PoC Client invited to a PoC Session: Manual Answer Override	6.2.1.4	O	PoCCPSpec-CTP-C-004	PoC-1.0-con-C-0158, PoC-1.0-con-C-0159, PoC-1.0-con-C-0160
PoCCPSpec-CTP-C-007	PoC Client receiving a PoC Session Release Request: On-demand case	6.2.3.1	M		PoC-1.0-con-C-0181
PoCCPSpec-CTP-C-009	PoC Client receiving an Instant Personal Alert: receiving SIP MESSAGE	6.2.4	M		PoC-1.0-con-C-0191
PoCCPSpec-CTP-C-013	Simultaneous Session Control Procedures	6.2.7	O		PoC-1.0-con-C-0198,
PoCCPSpec-CTP-C-014	PoC Client setting the PoC Session priority in SDP payload	6.2.7	O	PoCCPSpec-CUO-C-008	PoC-1.0-con-C-0198
	UserPlane				

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoC_UserPlaneV1-UTR-C-006	RTCP packets only contain the mandatory parts of RTCP (according to and procedures as specified in [RFC3550]), which are required for that specific RTCP compound packet.	5,4	O		PoC-1.0-con-C-0304,
PoC_UserPlaneV1-UTR-C-007	Support of sending of TBCP messages to the same UDP port as the other RTCP packets.	5,4	O		PoC-1.0-con-C-0305
PoC_UserPlaneV1-UTR-C-008	Does not send TBCP messages as compound packets.	5,4	O		PoC-1.0-con-C-0306
PoC_UserPlaneV1-UTR-C-009	Supports the creation, modification and/or processing of the content in RTCP packets.	5,4	O		PoC-1.0-con-C-0451, PoC-1.0-con-C-0452, PoC-1.0-con-C-0453
PoC_UserPlaneV1-UTR-C-010	To reduce potential degradation of the quality of the media transmission, the PoC Client does not schedule transmission of RTCP packets or TBCP messages during a Talk Burst.	5,4	O		PoC-1.0-con-C-0307
PoC_UserPlaneV1-UTR-C-012	Does not send RTCP BYE packets when the PoC Session is released.	5,4	O		PoC-1.0-con-C-0312
PoC_UserPlaneV1-UTB-C-001	Supports basic Talk Burst control.	6.2.5	M		PoC-1.0-con-C-0351, PoC-1.0-con-C-0352, PoC-1.0-con-C-0353, PoC-1.0-con-C-0354, PoC-1.0-con-C-0355,
PoC_UserPlaneV1-UTB-C-002	Provides Talk Burst idle notifications to the PoC User.	6.2.5.2.1	O		PoC-1.0-con-C-0356
PoC_UserPlaneV1-UTB-C-003	Provides the Talker Identification to the PoC User if available.	6.2.5.2.2, 6.2.5.3.2, 6.2.5.5.4, 6.2.5.6.3	O		PoC-1.0-con-C-0357, PoC-1.0-con-C-0358, PoC-1.0-con-C-0359, PoC-1.0-con-C-0360

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoC_UserPlaneV1-UTB-C-007	Displays the reason provided in the TBCP Talk Burst Deny message to the User.	6.2.5.3.3	O		PoC-1.0-con-C-03061,
PoC_UserPlaneV1-UTB-C-009	Provide a Talk Burst request timeout notification to the PoC User;	6.2.5.3.5	O		PoC-1.0-con-C-0362
PoC_UserPlaneV1-UTB-C-010	Informs the User of the reason in the Reason code field contained in the TBCP Talk Burst Revoke message;	6.2.5.4.3, 6.2.5.5.6	O		PoC-1.0-con-C-0363
PoC_UserPlaneV1-UTB-C-011	Starts the T12 (PoC Client retry-after) timer, if a retry after time is contained in the TBCP Talk Burst Revoke message;	6.2.5.4.3, 6.2.5.5.6	O		PoC-1.0-con-C-0622
PoC_UserPlaneV1-UTB-C-012	Includes the sequence number of the last RTP Media packet that was sent, if at least 1 RTP Media packet was sent.	6.2.5.5.1, 6.2.5.6.5	O		PoC-1.0-con-C-0364, PoC-1.0-con-C-0412,
PoC_UserPlaneV1-UTB-C-013	Informs the User that permission to send a Talk Burst is being revoked.	6.2.5.5.6	O		PoC-1.0-con-C-0363
PoC_UserPlaneV1-UTB-C-014	Supports extensions to basic Talk Burst control necessary for the support of Pre-established Sessions.	6.2.5	O		PoC-1.0-con-C-0391, PoC-1.0-con-C-0392, PoC-1.0-con-C-0393,
PoC_UserPlaneV1-UTB-C-015	Supports extensions to basic Talk Burst control necessary for the support of Simultaneous PoC Sessions.	6.2.76.2.8	O		PoC-1.0-con-C-0411, PoC-1.0-con-C-0412, PoC-1.0-con-C-0413, PoC-1.0-con-C-0414, PoC-1.0-con-C-0415
PoC_UserPlaneV1-UTB-C-016	Sends and acts upon received TBCP messages for a PoC Session in the dormant state.	6.2.8.3.1	O		PoC-1.0-con-C-0412, PoC-1.0-con-C-0414

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoC_UserPlaneV1-UTB-C-017	Supports extensions to Talk Burst control necessary for the support of queuing of Talk Burst requests.	6.2.9	O		PoC-1.0-con-C-0431, PoC-1.0-con-C-0432, PoC-1.0-con-C-0435,
POC-UTB-C-018	Provides the queue position (if available) to the User.	6.2.9.3.7	O		PoC-1.0-con-C-0433
POC-UTB-C-020	Displays the reason provided in the TBCP Talk Burst Deny message, if it is included, to the User.	6.2.9.7.4	O		PoC-1.0-con-C-0435
UTB-C-021					PoC-1.0-con-C-0365
ITB-C-022					PoC-1.0-con-C-0415
UTB-C-23					PoC-1.0-con-C-0436
PoC_UserPlaneV1-UMC-C-001	Support of quality feed back according to rules and procedures specified in [RFC3550].	7,1	O		PoC-1.0-con-C-0451, PoC-1.0-con-C-0452, PoC-1.0-con-C-0453
PoC_UserPlaneV1-UMC-C-002	Supports the transmission of RTCP SR/RR compound packets.	7.1.2	O		PoC-1.0-con-C-0451, PoC-1.0-con-C-0452, PoC-1.0-con-C-0453
PoC_UserPlaneV1-UMC-C-003	Uses the reception of the RTCP SR compound packet as indication to trigger the transmission of the RTCP RR compound packet.	7.1.2.2	O		PoC-1.0-con-C-0451, PoC-1.0-con-C-0452,
PoC_UserPlaneV1-UMC-C-004	Implement a timer that supervises the reception of the RTCP SR compound packet.	7.1.2.2	O		PoC-1.0-con-C-0452,
PoC_UserPlaneV1-UMC-C-005	Support of Media parameter negotiation.	7.2, 7.2.1.1, 7.2.1.2	M		PoC-1.0-con-C-0461, PoC-1.0-con-C-0462
PoC_UserPlaneV1-UMC-C-006	Support of User Plane adaptation.	7,2	O		PoC-1.0-con-C-0471, PoC-1.0-con-C-0472, PoC-1.0-con-C-0473

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoC_UserPlaneV1-UMC-C-007	Changes the voice frame packetization or voice codec mode by Out-band signaling using SDP payload within SIP messages.	7,2	O		PoC-1.0-con-C-0472,
PoC_UserPlaneV1-UMC-C-008	Changes the voice frame packetization or voice codec mode by In-band signaling using Codec Mode Request (CMR) field of AMR payload.	7,2	O		PoC-1.0-con-C-0473
PoC_UserPlaneV1-UMC-C-009	Initiate User Plane adaptation (in-band or out-band) triggered by e.g roaming to the system with different media capabilities.	7.3.1	O		PoC-1.0-con-C-0472, PoC-1.0-con-C-0473
PoC_UserPlaneV1-UMC-C-012	Supports Simultaneous PoC Sessions	7.5.1	O		PoC-1.0-con-C-0413,
PoC_UserPlaneV1-UMC-C-014	Supports RTP Media Session release of the Pre-established Session.	7,5	O		PoC-1.0-con-C-0393
PoC_UserPlaneV1-UMC-C-015	Support of Media transfer	7.7.1	M		PoC-1.0-con-C-0461, PoC-1.0-con-C-0462
PoC_UserPlaneV1-UID-C-001	Support of Talker Identification	8,2	O		PoC-1.0-con-C-0357, PoC-1.0-con-C-0358, PoC-1.0-con-C-0359, PoC-1.0-con-C-0360
PoC_UserPlaneV1-UTI-C-001	Talk Burst Release timer (T10)	9,3	M		PoC-1.0-con-C-0601, PoC-1.0-con-C-0602, PoC-1.0-con-C-0603
PoC_UserPlaneV1-UTI-C-002	Talk Burst Request timer (T11)	9,3	M		PoC-1.0-con-C-0362, PoC-1.0-con-C-0611 PoC-1.0-con-C-0612 PoC-1.0-con-C-0613
PoC_UserPlaneV1-UTI-C-003	PoC Client retry-after timer (T12)	9,3	O		PoC-1.0-con-C-0621
PoC_UserPlaneV1-UTI-C-004	PoC Client end of RTP Media timer (T13)	9,3	O		PoC-1.0-con-C-0621, PoC-1.0-con-C-0622

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
PoC_UserPlaneV1-UME-C-001	Talk Burst Control (TBCP) messages	6.5, 6.1	M		PoC-1.0-con-C-0654, PoC-1.0-con-C-0653, PoC-1.0-con-C-0655, PoC-1.0-con-C-0656, PoC-1.0-con-C-0657
PoC_UserPlaneV1-UME-C-002	Sending of more than one TBCP Talk Burst Control message MAY be sent in a single IP packet.	6.5, 6.1	O		
PoC_UserPlaneV1-UME-C-003	TBCP Talk Burst Request message	6.5.2, 6.1	M		
PoC_UserPlaneV1-UME-C-004	Talk Burst request priority level	6.5.2.1	O		PoC-1.0-con-C-0651
PoC_UserPlaneV1-UME-C-005	Talk Burst request timestamp	6.5.2.2	O		PoC-1.0-con-C-0652
PoC_UserPlaneV1-UME-C-006	TBCP Talk Burst Granted message	6.5.2.2, 6.1	M		PoC-1.0-con-C-0653,
PoC_UserPlaneV1-UME-C-007	TBCP Talk Burst Deny message	6.5.4, 6.1	M		PoC-1.0-con-C-0654
PoC_UserPlaneV1-UME-C-008	TBCP Talk Release message	6.5.5, 6.1	M		
PoC_UserPlaneV1-UME-C-009	TBCP Talk Burst Idle message	6.5.6, 6.1	M		PoC-1.0-con-C-0655
PoC_UserPlaneV1-UME-C-010	TBCP Talk Burst Taken message	6.5.7, 6.1	M		PoC-1.0-con-C-0656
PoC_UserPlaneV1-UME-C-011	TBCP Talk Burst Revoke message	6.5.7, 6.1	M		PoC-1.0-con-C-0657
PoC_UserPlaneV1-UME-C-012	TBCP Talk Burst Acknowledgment message	6.5.9, 6.1	O		
PoC_UserPlaneV1-UME-C-013	TBCP Talk Burst Request Queue Status Request message	6.5.10, 6.1	O		PoC-1.0-con-C-0433
PoC_UserPlaneV1-UME-C-014	TBCP Talk Burst Request Queue Status Response message	6.5.11, 6.1	O		PoC-1.0-con-C-0431, PoC-1.0-con-C-0432, PoC-1.0-con-C-0434
PoC_UserPlaneV1-UME-C-015	TBCP Disconnect message	6.5.12	O		PoC-1.0-con-C-0392, PoC-1.0-con-C-0393
	XDM				

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
POC_XDM-AU-S-001	PoC Group document structure and elements supported	5.1.1	M		
POC_XDM-AU-S-002	Application Unique ID of PoC document	5.1.2, 5.2.2	M		
POC_XDM-AU-S-003	XML schema of PoC Group	5.1.4, 5.1.6	M		
POC_XDM-AU-S-004	MIME type of PoC Group and User Access policy documents	5.1.4, 5.2.4	M		
POC_XDM-AU-S-005	Data semantics of PoC Group document	5.1.6	M		
POC_XDM-AU-S-006	Naming conventions for PoC Group and User Access policy documents	5.1.7, 5.2.7 s	M		
POC_XDM-AU-S-007	Authorization policies for manipulating PoC Group and User Access policy documents	5.1.10, 5.2.10	M		
POC_XDM-AU-S-008	PoC User Access Policy document structure and elements supported	5.2.1	M		
POC_XDM-AU-S-009	XML schema of PoC User Access Policy document	5.2.3, 5.2.5	M		
POC_XDM-AU-S-010	Data semantics of PoC User Access Policy document	5.2.6	M		
PoC_XDM-CAU-C-001	Data semantics of PoC Group document	5.1.6	M		PoC-1.0-con-C-0801, PoC-1.0-con-C-0802, PoC-1.0-con-C-0803, PoC-1.0-con-C-0805
PoC_XDM-CAU-C-002	XDM Client handling of HTTP "409 Conflict" response from the PoC XDMS	5.1.5	M		
XDM-XDMC-C-001	Support rules for constructing HTTP URIs	6.1.1.1	M		PoC-1.0-con-C-0701

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
XDM-XDMC-C-002	Support for XDM Operations	6.1.1.2	M		PoC-1.0-con-C-0701, PoC-1.0-con-C-0702, PoC-1.0-con-C-0703, PoC-1.0-con-C-0704, PoC-1.0-con-C-0705, PoC-1.0-con-C-0706, PoC-1.0-con-C-0707, PoC-1.0-con-C-0708
XDM-XDMC-C-003	Initial Subscription using the SUBSCRIBE message	6.1.2.1	O		PoC-1.0-con-C-0721, PoC-1.0-con-C-0722
XDM-XDMC-C-004	Processing Received NOTIFY Request	6.1.2.2	O		PoC-1.0-con-C-0723
XDM-XDMC-C-005	Support HTTP Digest authentication	6.4.1	M		PoC-1.0-con-C-0741
XDM-XDMC-C-006	Support HTTP over TLS using the two supported cipher suites	6.4.1	M		PoC-1.0-con-C-0743
XDM-XDMC-C-007	Support other cipher suites defined in RFC2246	6.4.1	O		
XDM-XDMC-C-008	Support HTTP Compression	6.1.1.2	O		PoC-1.0-con-C-0709, PoC-1.0-con-C-0710
XDM-XDMC-C-001	Support rules for constructing HTTP URIs	6.1.1.1	M		
XDM-XDMC-C-002	Support for XDM Operations	6.1.1.2	M		
XDM-XDMC-C-003	Initial Subscription using the SUBSCRIBE message	6.1.2.1	O		
XDM-XDMC-C-004	Processing Received NOTIFY Request	6.1.2.2	O		
XDM-XDMC-C-008	Support HTTP Compression	6.1.1.2	O		
XDM-XDMS-S-001	Support for XCAP	6.2.1	M		
XDM-XDMS-S-002	Support Initial Subscription when SUBSCRIBE message received	6.2.2.1	O		
XDM-XDMS-S-003	Not Implemented Error Handling or SUBSCRIBE request Handling	6.2.2.1	M		
XDM-XDMS-S-004	Generating a NOTIFY request	6.2.2.2	O		

Item	Function	Reference	Status	Requirement	Test Case ID
	ControlPlane				
XDM-XDMS-S-005	Support XDMC identity access authorization	6.4.3	M		
XDM-XDMS-S-006	Usage not understood Error Handling	6.5	M		
XDM-XDMS-S-007	Support Application Usage "xcap-caps"	6.6.1	M		
XDM-XDMS-S-008	Support Application Usage "xcap-directory"	6.6.2	M		
XDM-AP-S-001	Support HTTP Digest authentication	5.3, 6.3.1, 6.4.1	M		
XDM-AP-S-002	Support HTTP over TLS using the two supported cipher suites	5.3, 6.4.2	M		
XDM-AP-S-003	Support other cipher suites defined in RFC2246	6.4.1	O		
XDM-AP-S-004	Support XDM Client Identity Assertion	5.3, 6.3.2	M		
XDM-AP-S-005	Support XCAP request forwarding	6.3.3	M		
XDM-AP-S-006	Support Compression	6.3.4	O		
XDM-AP-S-007	Support for GAA	6.3, 6.4	O		
Shared_XDM-AU-S-001	URI list structure	5.1.1	M		PoC-1.0-con-C-0851, PoC-1.0-con-C-0852
Shared_XDM-AU-S-002	Application Unique ID in URI list	5.1.2	M		PoC-1.0-con-C-0851, PoC-1.0-con-C-0852
Shared_XDM-AU-S-003	XML schema of URI list	5.1.3	M		PoC-1.0-con-C-0851, PoC-1.0-con-C-0852
Shared_XDM-AU-S-004	URI list conforms to MIME type	5.1.4.	M		
Shared_XDM-AU-S-005	Validation constraints, in addition to the XML schema	5.1.5	M		
Shared_XDM-AU-S-006	Data semantics of URI list	5.1.6	M		
Shared_XDM-AU-C-007	Naming conventions for URI list	5.1.7	M		

Appendix C. Preambles and Postambles for Client tests

As described in section3.4.1 there is a need of macros to bring a client from state "Deregistered" to the different initial states a test case states in the preconditions and after test case execution back to the state "Deregistered". A schematic overview is provided in Figure 1.

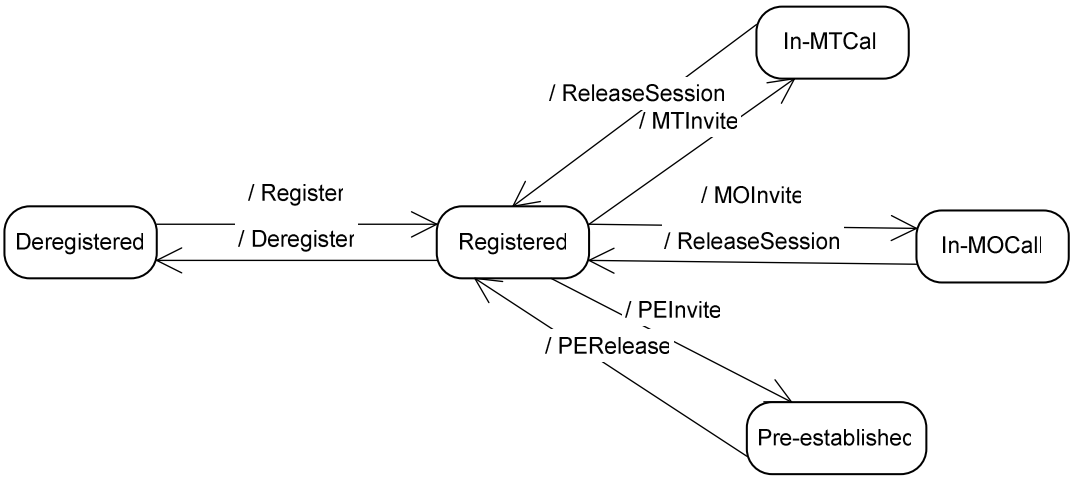

Figure 1 state diagram visualising the macros to use as preambles and postambles

C.1 Register macro – Deregistered to Registered transition

This macro SHALL be used to bring the client from state Deregistered to state Registered.

Preconditions	PoC Client is in state Deregistered.
Macro steps	1. PoC client is triggered to register for PoC service 2. PoC Client sends SIP REGISTER request. 3. PoC Client receives 200 OK response containing a P-Associated-URI header with a single authenticated Public User Identity [PublicUserID1]. 4. PoC Client sends SIP PUBLISH request. 5. PoC Client receives a 200 OK response.
PostCondition	PoC Client is in state Registered

C.2 MOInvite macro – Registered to In-MOCall transition

This macro SHALL be used to bring the client from state Registered to state In-MOCall.

Preconditions	PoC Client is in state Registered.
Macro steps	1. PoC User initiates a 1-to-1OnDemand PoC Session to PoC Friend 1. 2. PoC Client sends an INVITE message. 3. PoC Client receives a “100 Trying” response. 4. PoC Client receives a “180 Ringing” response. 5. PoC Client receives a “200 OK” response. 6. PoC Client sends a SIP ACK request to acknowledge receipt of the SIP “200 OK”.
PostCondition	PoC Client is in state In-MOCall.

C.3 MTInvite macro – Registered to In-MTCall transition

This macro SHALL be used to bring the client from state Registered to state In-MTCall.

Preconditions	PoC Client is in state Registered The Answer-Mode PoC Service Setting of the PoC Client is set to auto-answer
Macro steps	1. PoC Client receives an INVITE message containing the Answer-Mode header set to “Auto” to establish an 1-1 OnDemand session. 2. PoC Client sends a SIP 200 ‘OK’ response. 3. PoC Client receives an ACK request to acknowledge the SIP 200 response..
PostCondition	PoC Client is in state In-MTCall

C.4 ReleaseSession macro – In-XXCall to Registered transition

This macro SHALL be used to bring the client from the InCall state to state Registered.

Preconditions	PoC Client is either in state In-MTCall or In-MOCall.
Macro steps	1. PoC Client receives a BYE request. 2. PoC Client sends a 200 OK response.
PostCondition	PoC Client is in state Registered

C.5 Deregister macro –Registered to Deregistered transition

This macro SHALL be used to bring the client from state Registered to state deregistered.

Preconditions	PoC Client is in state Registered.
Macro steps	1. PoC User requests that PoC Client de-registers from the PoC Service and also the SIP/IP Core. 2. PoC Client sends a SIP REGISTER containing an Expires header with value set to zero. 3. Test tool sends a 200 OK response
PostCondition	PoC Client is in state Deregistered

C.6 PEInvite macro –Registered to Pre-established transition

This macro SHALL be used to bring the client from state Registered to state Pre-established.

Preconditions	PoC Client is in state Registered.
Macro steps	1. PoC User initiates establishment of a pre-established PoC session. 2. PoC Client sends SIP INVITE request. 3. PoC Client receives a SIP 200 'OK' response. 4. PoC Client sends an ACK request to acknowledge receipt of the SIP 200 response.
PostCondition	PoC Client is in state Pre-established

C.7 PERelease macro –Pre-established to Registered transition

This macro SHALL be used to bring the client from state Pre-established to state Registered.

Preconditions	PoC Client is in state Pre-established.
Macro steps	1. PoC User requests that the PoC Client releases the Pre-established Session. 2. PoC Client sends a BYE request. 3. PoC Client receives a 200 OK response.
PostCondition	PoC Client is in state Registered

Appendix D. Optional Message handling macros

D.1 Handling SUBSCRIBE

Note: The test tool will not send NOTIFY requests towards the PoC Client.

D.1.1 Subscription to the Conference State Event Package

Preconditions	PoC client has an active session on going
Macro steps	1. PoC Client sends a SUBSCRIBE request with the event type in the Event header set to "conference" 2. PoC Client receives a SIP 405 "Method not allowed" response.

D.1.2 Un-Subscription from the conference state

Preconditions	The PoC Client is subscribed to the conference state package.
Macro steps	1. PoC Client sends a SUBSCRIBE request. 2. Test tool sends a 200 OK response

D.1.3 Subscription to the registration state

Preconditions	PoC client is registered for PoC service
Macro steps	1. PoC Client sends a SUBSCRIBE request with the event type in the Event header set to "reg" 2. Test tool sends a 200 OK response.

Appendix E. Testcases applicability

E.1 Introduction

This section shall help implementers of the PoC Enabler to select appropriate test cases that are applicable to the features implemented.

This appendix lists all the test cases testing only mandatory features (sections E.2 and E.6 for client and server respectively) and test cases that include optional features (sections E.5 and E.9 for client and server respectively). For the test cases implementing optional features, ICS (Implementation Conformance Specification) and IXIT (protocol implementation extra information) were identified based on the preconditions and SCR items – this results in a mapping from ICS/IXIT to applicable test cases as defined by Open Mobile Alliance.

E.2 Client Test cases testing only mandatory features

These test cases are independent from any precondition, are testing only mandatory SCRs and SHALL be run with every terminal.

Test Case
PoC-1.0-con-C-0046 – On-Demand Session / Ad-hoc PoC Group Session setup / Max Ad-hoc Group size exceeded
PoC-1.0-con-C-0111 – On-Demand Session / Cancel a PoC Session
PoC-1.0-con-C-0112 – On-Demand Session / Late Cancel of a PoC Session
PoC-1.0-con-C-0351 – Basic Operation STD / Session Initiation / With TB granted
PoC-1.0-con-C-0352 – Basic Operation STD / Talk Burst Release / Talk Burst Request
PoC-1.0-con-C-0353 – Basic Operation STD / Talk Burst Revoke / Talk Burst Release / Talk Burst Request
PoC-1.0-con-C-0354 – Basic Operation STD / Talk Burst Revoke / Talk Burst Request
PoC-1.0-con-C-0355 – Basic Operation STD / Talk Burst Request / Not Granted with retries
PoC-1.0-con-C-0461– Inviting PoC Client
PoC-1.0-con-C-0462 – Invited PoC Client
PoC-1.0-con-C-0601 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state ‘U: has permission’
PoC-1.0-con-C-0602 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state ‘U: pending TB_Revoke’
PoC-1.0-con-C-0603 –Talk Burst Release Timer (T10) / Basic Operation STD / Support from state ‘U: pending TB_Request’
PoC-1.0-con-C-0611 –Talk Burst Request Timer (T11) / Basic Operation STD / Support from ‘start-stop’
PoC-1.0-con-C-0612 –Talk Burst Request Timer (T11) / Basic Operation STD / TB_Request repeats
PoC-1.0-con-C-0613 – Talk Burst Request Timer (T11) / Basic Operation STD / T11 Stop conditions
PoC-1.0-con-C-0653 – Receive TBCP Talk Burst Granted
PoC-1.0-con-C-0654 – Receive TBCP Talk Burst Deny
PoC-1.0-con-C-0655 – Receive TBCP Talk Burst Idle (Notification Optional)
PoC-1.0-con-C-0656 – Receive TBCP Talk Burst Taken
PoC-1.0-con-C-0701 - XDM URI Construction for Document Retrieval
PoC-1.0-con-C-0702 - Create or Replace a Document
PoC-1.0-con-C-0703 - Delete a Document
PoC-1.0-con-C-0704 - Create an Element
PoC-1.0-con-C-0705 - Replace an Element
PoC-1.0-con-C-0706 - Delete an Element
PoC-1.0-con-C-0707 - Retrieve an Element

PoC-1.0-con-C-0708 - Replace an Attribute
PoC-1.0-con-C-0741 - Support for HTTP Digest Authentication of Client
PoC-1.0-con-C-0743 - Support for TLS_RSA_WITH_3DES_EDE_CBC_SHA cipher suite
PoC-1.0-con-C-0761 - Retrieval of XML Documents Directory
PoC-1.0-con-C-0801 - PoC Group Identity
PoC-1.0-con-C-0802 - Support of SIP URI PoC Addresses
PoC-1.0-con-C-0805 - Create PoC Group with External URI List

E.3 Client ICS

Preconditions		**Applicable**
ICS	*Description*	*(yes/no)*
ics_3gpp_ims	Client supports 3GPP IMS	
ics_3ggp2_ims	Client supports 3GPP2 IMS	
ics_3gpp2_mmd	Client supports 3GPP2 MMD	
ics_3gpp_3gpp2_early_ims	Client supports 3GPP/3GPP2 IMS early security	
ics_3gpp_3gpp2_full_ims	Client supports 3GPP/3GPP2 IMS full security	
ics_pre_established_session_estab	Client supports pre-established session establishment	
ics_pre_established_session_init	Client supports pre-established session initiation	
ics_pre_arranged_session	Client supports pre-arranged session initiation	
ics_pc_media_streams_active_immediately	The manufacturer of the device under test has supplied a PICS value indicating if the client is able and willing to receive media streams immediately (Boolean pc_media_streams_active_immediately)	
ics_handling_unconfirmed_indication	Client supports handling of unconfirmed indication signalling for Ad-hoc PoC group and 1-1 PoC session setup	
ics_auto_answer	Client supports automatic answer mode	
ics_manual_answer	Client supports manual answer	
ics_manual_answer_override	Client supports manual answer override	
ics_tb_idle_notif	Client provides talk burst idle notifications to the PoC user	
ics_talker_identification	Client supports Talker Identification	
ics_tb_deny_notif_to_user	Client provides talk burst deny notification to the PoC user	
ics_tb_req_timeout_notif_to_	Client provides a talk burst request timeout	

user	notification to the PoC user		
ics_reason_code_tb_revoke_to_user	Client informs the user of the reason code contained in the TBCP talk burst revoke message		
ics_permission_to_send_tb_revoke_to_user	Client informs the user that permission to send a talk burst is being revoked		
ics_rtp_seq_num_sent	Client includes the sequence number of the last RTP media packet that was sent, if at least 1 RTP media packet was sent		
ics_participation_level_indication_to_user	Client provides a notification of the number of participants, receiving talk bursts in the PoC session, to the PoC user, if included in the TBCP talk burst granted message		
ics_tb_ctrl_for_pre_established_session	Client supports extensions to basic talk burst control necessary for the support of pre-established sessions		
ics_tbcp_tb_disconnect	Client handles correctly the TBCP talk burst disconnect message		
ics_rtp_media_session_release	Client supports RTP media session release of the pre-established session		
ics_priority_change	Client supports changing the session priority		
ics_tbcp_dormant_sate	Client sends and acts upon received TBCP messages for a PoC session in the dormant state		
ics_simultaneous_sessions	Client supports simultaneous PoC sessions		
ics_tb_queue_status	Client supports TBCP talk burst request queue status message		
ics_queuing	Client supports extensions to talk burst control necessary for the support of queuing of talk burst requests		
ics_queue_position_to_user	Client provides the queue position to the user		
ics_display_tbcp_tb_deny	Client displays the reason provided in the TBCP talk burst deny message to the user		
ics_notif_number_of_participants	Client provides notification of the number of participants to the PoC user		
ics_display_number_of_participants	Client supports the display of the number of participants		
ics_rtcp_packets	Client supports the creation, modification and/or processing of the content in RTCP packets		
ics_tbcp_rtcp_udp_port	TBCP messages are sent to the same UDP port as the other RTCP packets		

ics_tbcp_as_simple_rtcp	TBCP messages are not sent as coumpound RTCP packets		
ics_no_tbcp_rtcp_schedule	Client do not schedule transmission of RTCP packets or TBCP messages during a Talk Burst		
ics_no_rtcp_bye	Client do not send RTCP BYE packets		
ics_quality_feedback	Client supports quality feedback		
ics_tx_rtcp_sr_rr_packets	Client supports the transmission of RTCP SR/RR compound packets		
ics_rx_rtcp_sr_packets	Client uses the reception of the RTCP SR compound packet as indication to trigger the transmission of the RTCP RR compound command		
ics_rtcp_sr_rx_timer	Client implements a timer that supervises the reception of the RTCP RR compound packet		
ics_user_plane_adaption	Client supports user plane adaption		
ics_change_voice_outband_sig	Client supports change of voice packetization or voice codec mode by Out-band signaling using SDP payload within SIP messages		
ics_init_user_plane_adaption	Client supports the initiation of user plane adaptation (in-band or out-band)		
ics_media_on_hold	Client supports “media on hold”		
ics_send_tb_media_on_hold	Client supports sending talk bursts when “media on hold”		
ics_send_rtp_to_simultaneous_sessions	Client supports sending of RTP media packets to any of the simultaneous PoC sessions according to the PoC user seleccion		
ics_info_participants	Client supports the collection of information about the other participants in the PoC session in order to be able to map a RTP media packet in case the TBCP talk burst taken message is lost		
ics_talk_burst_revoke_timer	Client starts T12, the PoC client retry-after timer, if a retry after time is contained in the TBCP talk burst revoke message		
ics_tb_req_prio_level	Client supports sending a talk burst request priority level		
ics_tb_req_timestamp	Client supports sending a talk burst request timestamp		
ics_xdm_http_compression	Clients supports HTTP compression		
ics_xdm_subscribe_changes	Client has the capability to subscribe to changes in XML documents		

ics_xdm_process_rec_notif_req	Client is able to process a received NOTIFY request relative to a previous SUBSCRIBE request sent	
ics_tel_uri_poc_addr	Client supports the entry of PoC addresses as TEL URIs	

E.4 Client IXIT

Value column shall be filled with appropriate values that are supported by the device.

Preconditions		Unit Value
IXIT	*Description*	
ixit_max_adhoc_group_size	Maximum number of members allowed in an adhoc PoC session	Integer
ixit_timer_t12	PoC client retry-after timer T12	Integer in seconds
ixit_timer_t2	Stop talking timer	Integer in seconds
ixit_timer_t3	Stop talking grace timer	Integer in seconds
ixit_allowed_num_rtx_tb_revoke	Allowed number of retransmissions of the TBCP talk burst revoke message	Integer

E.5 Client ICS/IXIT to test case mapping

According to the ICS and IXIT marked in section E.3 and E.4 the applicaple test cases can be derived from the following table.

Preconditions	Test Case
ics_3gpp_3gpp2_early_ims OR ics_3gpp_3gpp2_full_ims	PoC-1.0-con-C-0001 – Registration per 3GPP IMS
	PoC-1.0-con-C-0003 – PoC Service De-registration / Remain SIP/IP Core Registered
	PoC-1.0-con-C-0004 – PoC Service De-registration / De-register from SIP/IP Core
ics_3gpp_3gpp2_early_ims OR ics_3gpp_3gpp2_full_ims AND ics_3gpp_ims	PoC-1.0-con-C-0005 – Registration per 3GPP IMS / Re-registration (Includes Optional Features)
ics_3gpp2_mmd	PoC-1.0-con-C-0002 – Registration per 3GPP2 MMD
ics_3gpp_ims	PoC-1.0-con-C-0021 – Initiation of SIP PUBLISH request
ics_pre_established_session_estab AND	PoC-1.0-con-C-0030 – Pre-established Session establishment (Includes Optional Features)

ics_pre_established_session_init AND ics_pc_media_streams_active_immediately	
ics_pre_established_session_estab AND ics_pre_arranged_session	PoC-1.0-con-C-0034 – Pre-established Session / Pre-arranged PoC Group Session setup / Confirmed Indication (Includes Optional Features)
ics_3gpp_ims OR ics_3ggp2_ims	PoC-1.0-con-C-0042 – On-Demand Session / Ad-hoc PoC Group Session setup / Confirmed Indication
	PoC-1.0-con-C-0043 – On-Demand Session / 1-1 PoC session setup / Confirmed Indication
	PoC-1.0-con-C-0044 – On-Demand Session / Pre-arranged PoC Group Session setup / Confirmed Indication
	PoC-1.0-con-C-0045 – On-Demand Session / Join Chat PoC Group Session
	PoC-1.0-con-C-0152 – Automatic Answer Mode / Manual Answer Mode Set in PoC Client (Includes Optional Features)
	PoC-1.0-con-C-0153 – Automatic Answer Mode / Unacceptable media parameter(s) (Includes Optional Features)
	PoC-1.0-con-C-0154 – Manual Answer Mode (Includes Optional Features)
	PoC-1.0-con-C-0155 – Manual Answer Mode / PoC User rejects invitation (Includes Optional Features)
	PoC-1.0-con-C-0156 – Manual Answer Mode / Unanswered (Includes Optional Features)
	PoC-1.0-con-C-0157 – Manual Answer Mode / Unacceptable media parameter(s) (Includes Optional Features)
ics_3gpp_ims OR ics_3ggp2_ims AND ics_handling_unconfirmed_indication	PoC-1.0-con-C-0047 – On-Demand Session / Ad-hoc PoC Group Session setup / Unconfirmed Indication (Includes Optional Features)
ixit_max_adhoc_group_size = 4	PoC-1.0-con-C-0101 – On-Demand Session / Add PoC Users / Single PoC User / Ad-hoc PoC Group Session
	PoC-1.0-con-C-0103 – On-Demand Session / Add PoC Users / Multiple PoC Users / 1-1 PoC Session / Max Ad-hoc Group size exceeded
ics_3gpp_ims	PoC-1.0-con-C-0151 – Automatic Answer Mode / Auto Answer Mode Set in

OR ics_3ggp2_ims AND ics_auto_answer	PoC Client (Includes Optional Features)
ics_3gpp_ims OR ics_3ggp2_ims AND ics_manual_answer_override	PoC-1.0-con-C-0158 – Manual Answer Override / MAO supported / Manual Answer Mode Set in PoC Client (Includes Optional Features)
ics_3gpp_ims OR ics_3ggp2_ims AND ics_auto_answer AND ics_manual_answer_override	PoC-1.0-con-C-0159 – Manual Answer Override / MAO supported / Automatic Answer Mode Set in PoC Client (Includes Optional Features)
ics_3gpp_ims OR ics_3ggp2_ims AND ics_manual_answer	PoC-1.0-con-C-0160 – Manual Answer Override / MAO not supported / Manual Answer Mode Set in PoC Client (Includes Optional Features)
ics_rtcp_packets AND ics_quality_feedback	PoC-1.0-con-C-0304 – Talk burst control protocol message composition (Includes Optional Features)
ics_tbcp_rtcp_udp_port	PoC-1.0-con-C-0305 – RTCP APP packet transmission (Includes Optional Features)
ics_tbcp_as_simple_rtcp	PoC-1.0-con-C-0306 – Use of RTCP for Talk burst control (Includes Optional Features)
ics_no_tbcp_rtcp_schedule AND ics_quality_feedback	PoC-1.0-con-C-0307 – Talk burst control protocol message scheduling (Includes Optional Features)
ics_no_rtcp_bye	PoC-1.0-con-C-0308 – Session release / no BYE message (Includes Optional Features)

ics_tb_idle_notif	PoC-1.0-con-C-0356 – Receive TBCP talk burst idle message indication (Includes Optional Features)
ics_talker_identification	PoC-1.0-con-C-0357 – Talker identification / user has no permission (Includes Optional Features)
	PoC-1.0-con-C-0358 – Talker identification, pending TB request (Includes Optional Features)
	PoC-1.0-con-C-0359 – Talker identification, pending TB release (Includes Optional Features)
	PoC-1.0-con-C-0360 – Talker identification, pending TB revoke (Includes Optional Features)
ics_tb_deny_notif_to_user	PoC-1.0-con-C-0361 – Talk burst denial reason presentation (Includes Optional Features)
ics_tb_req_timeout_notif_to_user	PoC-1.0-con-C-0362 – Talk request timeout / T11 fired N-times (Includes Optional Features)
ics_reason_code_tb_revoke_to_user AND ics_permission_to_send_tb_revoke_to_user	PoC-1.0-con-C-0363 – Managing Talk burst revoke / user has permission (Includes Optional Features)
ics_rtp_seq_num_sent	PoC-1.0-con-C-0364 – RTP media sequence number notification on TB release (Includes Optional Features)
ics_participation_level_indication_to_user	PoC-1.0-con-C-0365 – Participation level indication (Includes Optional Features)
ics_tb_ctrl_for_pre_established_session AND ics_tbcp_tb_disconnect	PoC-1.0-con-C-0392 – Pre-established session / basic support of extensions (Includes Optional Features)
ics_tb_ctrl_for_pre_established_session AND ics_tbcp_tb_disconnect AND ics_rtp_media_session_release	PoC-1.0-con-C-0393 – Pre-established session / basic support of extensions / RTP media session release (Includes Optional Features)
ics_tb_ctrl_for_simultaneous_sessions AND ics_priority_change	PoC-1.0-con-C-0411 – Accept a second simultaneous session, basic operation (Includes Optional Features)

ics_tb_ctrl_for_simultaneous_sessions AND ics_tbcp_dormant_sate	PoC-1.0-con-C-0412 – Simultaneous sessions / managing TBCP messages (Includes Optional Features)
ics_simultaneous_sessions	PoC-1.0-con-C-0413 – Simultaneous session / change of source (Includes Optional Features)
ics_simultaneous_sessions AND ics_queuing	PoC-1.0-con-C-0414 – Locked session release (Includes Optional Features)
ics_simultaneous_sessions AND ics_participation_level_indication_to_user	PoC-1.0-con-C-0415 – Simultaneous sessions / participation level indication (Includes Optional Features)
ics_tb_queue_status AND ics_queuing	PoC-1.0-con-C-0431 – TB queuing / permission granted (Includes Optional Features)
	PoC-1.0-con-C-0432 – TB queuing / permission denied (Includes Optional Features)
ics_tb_queue_status AND ics_queuing AND ics_queue_position_to_user	PoC-1.0-con-C-0433 – Queue Status Notification (Includes Optional Features)
ics_queuing AND ics_display_tbcp_tb_deny	PoC-1.0-con-C-0435 – TB queuing / receive TB deny / display reason
ics_notif_number_of_participants AND ics_display_number_of_participants	PoC-1.0-con-C-0436 – TB Queuing / participation level indication (Includes Optional Features)
ics_rtcp_packets AND ics_quality_feedback AND ics_tx_rtcp_sr_rr_packets	PoC-1.0-con-C-0451 – Quality feedback reporting on received media (Includes Optional Features)

AND ics_rx_rtcp_sr_packets AND ics_rtcp_sr_rx_timer	
ics_rtcp_packets AND ics_quality_feedback AND ics_tx_rtcp_sr_rr_packets	PoC-1.0-con-C-0453 – Quality reporting at end of talk burst (Includes Optional Features)
ics_user_plane_adaption AND ics_change_voice_outband_sig AND ics_init_user_plane_adaption	PoC-1.0-con-C-0472 – Change voice frame packetisation or voice codec mode / out-band signalling (Includes Optional Features)
ics_media_on_hold	PoC-1.0-con-C-0481 – Media on hold - Receive TBCP Messages (Includes Optional Features)
ics_media_on_hold AND ics_send_tb_media_on_hold	PoC-1.0-con-C-0482 – Controlling Talk bursts when media on hold (Includes Optional Features)
ics_simultaneous_sessions AND ics_send_rtp_to_simultaneous_sessions	PoC-1.0-con-C-0491 – Simultaneous sessions / sending RTP media (Includes Optional Features)
ics_talker_identification AND ics_info_participants	PoC-1.0-con-C-0551 – Talker identification (Includes Optional Features)
ics_talk_burst_revoke_timer AND ixit_timer_t12	PoC-1.0-con-C-0621 – Talk Burst Revoke Timer (T12) / Basic Operation STD / Support from state ‘U: has permission’ (Includes Optional Features)
	PoC-1.0-con-C-0622 – Talk Burst Revoke Timer (T12) / Basic Operation STD / Support from state ‘U: pending TB_Release’ (Includes Optional Features)
ics_tb_req_prio_level	PoC-1.0-con-C-0434 – Talk burst priority “listen only”

AND ics_queuing	PoC-1.0-con-C-0651 – Sending TB priority request (Includes Optional Features)
ics_tb_req_prio_level AND ics_tb_req_timestamp	PoC-1.0-con-C-0652 – Sending TB priority request timestamp (Includes Optional Features)
ixit_timer_t2 = 30 AND ixit_timer_t3 = 3	PoC-1.0-con-C-0657– Receive TBCP Talk Burst Revoke/PoC User Releases during Grace Period
ixit_allowed_num_rtx_tb_revoke	PoC-1.0-con-C-0658 – Receive TBCP Talk Burst Revoke/PoC User Releases after Grace Period Expires
ics_xdm_http_compression	PoC-1.0-con-C-0709 - Support for HTTP compression in GET requests (Includes Optional Features)
	PoC-1.0-con-C-0710 - Support for HTTP compression in PUT requests (Includes Optional Features)
ics_xdm_subscribe_changes	PoC-1.0-con-C-0721 - Initial Subscription Request: Specific PoC Group Document (Includes Optional Features)
	PoC-1.0-con-C-0722 - Initial Subscription Request: All PoC Group Documents for a User (Includes Optional Features)
ics_xdm_process_rec_notif_req AND ics_xdm_subscribe_changes	PoC-1.0-con-C-0723 - Notify Request Matching (Includes Optional Features)
	PoC-1.0-con-C-0724 – NOTIFY Processing with PoC Group document update (Includes Optional Features)
ics_tel_uri_poc_addr	PoC-1.0-con-C-0803 - Support of TEL URI PoC Addresses

E.6 Server Test cases testing only mandatory features

These test cases are independent from any precondition, are testing only mandatory SCRs and SHALL be run with every PoC server.

Test case
PoC-1.0-con-S-0001 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE from a PoC Client
PoC-1.0-con-S-0002 – A Terminating PoC Server assumes the role of a Participating PoC server upon receiving a SIP INVITE from a Controlling PoC Server
PoC-1.0-con-S-0003 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client
PoC-1.0-con-S-0004 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP INVITE for a Chat Group session from a PoC Client
PoC-1.0-con-S-0005 – An Originating PoC Server assumes the role of a Participating PoC server upon

receiving a SIP INVITE for a Pre-arranged Group session from a PoC Client
PoC-1.0-con-S-0006 – An Originating PoC Server assumes the role of a Participating PoC server upon receiving a SIP INVITE for a Chat Group session from a PoC Client
PoC-1.0-con-S-0100 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with a conference-factory-uri that does not exist
PoC-1.0-con-S-0101 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with an invalid Accept-Contact header
PoC-1.0-con-S-0102 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with an incorrect inviting user PoC address
PoC-1.0-con-S-0103 – A Terminating PoC Server functioning as a Controlling server receives a 1-1 session SIP INVITE with unsupported Media Parameters
PoC-1.0-con-S-0104 – A Terminating PoC Server functioning as a Controlling server receives a valid 1-N session SIP INVITE with with too many participants in the MIME resource-lists body
PoC-1.0-con-S-0105 – A Terminating PoC Server functioning as a Controlling server receives a valid 1-1 session SIP INVITE with Media Parameters that it supports
PoC-1.0-con-S-0106 – A Terminating PoC Server functioning as a Controlling server receives a valid 1-N session SIP INVITE with Media Parameters that it supports
PoC-1.0-con-S-0107 – A Terminating PoC Server functioning as a Controlling server receives a SIP 180 “Ringing” from a Participating PoC Server
PoC-1.0-con-S-0108 – A Terminating PoC Server functioning as a Controlling server receives a SIP 200 “OK” from a Participating PoC Server
PoC-1.0-con-S-0109 – A Terminating PoC Server functioning as a Controlling server receives a SIP 4XX, 5XX, or 6XX message from a Participating PoC Server
PoC-1.0-con-S-0110 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE for a PoC Group that is not owned by this server
PoC-1.0-con-S-0111 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with an invalid Session-Type parameter in the Request-URI
PoC-1.0-con-S-0112 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with an invalid Contact header
PoC-1.0-con-S-0113 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE from a PoC User whose session initiation policy forbids him from initiating Pre-arranged group calls to this group
PoC-1.0-con-S-0119 – A Terminating PoC Server functioning as a Controlling server receives a SIP INVITE for an ongoing pre-arranged group session from a user who does not have the appropriate joining policy
PoC-1.0-con-S-0123 – A Terminating PoC Server functioning as a Controlling server receives a Chat group session SIP INVITE for a Chat Group that is not owned by this server
PoC-1.0-con-S-0124 – A Terminating PoC Server functioning as a Controlling server receives a Chat group session SIP INVITE with an invalid Request-URI
PoC-1.0-con-S-0125 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with Media Parameters it does not support
PoC-1.0-con-S-0126 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with a CODEC it does not support
PoC-1.0-con-S-0127 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE with a CODEC and Media Parameters it supports
PoC-1.0-con-S-0128 A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message from an unauthorized user
PoC-1.0-con-S-0129 – A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message to add users to an ongoing Pre-arranged PoC group session
PoC-1.0-con-S-0131 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP REFER to add users to an ongoing PoC session
PoC-1.0-con-S-0132 – A Terminating PoC Server functioning as a Controlling server receives a SIP BYE request for a 1-1 PoC Session
PoC-1.0-con-S-0133 – A Terminating PoC Server functioning as a Controlling server receives a SIP CANCEL request
PoC-1.0-con-S-0134 – A Terminating PoC Server functioning as a Controlling server receives a SIP

SUBSCRIBE that contains an invalid Session Identity
PoC-1.0-con-S-0135 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE that contains an invalid PoC Group Identity
PoC-1.0-con-S-0136 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE with an invalid Accept-Contact header
PoC-1.0-con-S-0137 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE and the Originator's PoC Address is does not exist on the PoC Server
PoC-1.0-con-S-0138 – A Terminating PoC Server functioning as a Controlling server receives a SIP SUBSCRIBE and the Originator's PoC Address is not authorized
PoC-1.0-con-S-0139 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for an Adhoc session
PoC-1.0-con-S-0140 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for a Pre-arranged group session
PoC-1.0-con-S-0141 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP SUBSCRIBE for a Chat group session
PoC-1.0-con-S-0142 – A Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY when PoC User joins a PoC Session
PoC-1.0-con-S-0143 – A Terminating PoC Server functioning as a Controlling server sends a SIP NOTIFY to terminate a PoC User's subscription
PoC-1.0-con-S-0175 – An Originating PoC Server functioning as a Controlling server needs to remove a participant from a PoC session
PoC-1.0-con-S-0176 – An Originating PoC Server functioning as a Controlling server sends a SIP UPDATE
PoC-1.0-con-S-0200 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with an invalid Accept-Contact header
PoC-1.0-con-S-0201 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with an incorrect inviting user PoC address
PoC-1.0-con-S-0202 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with unsupported Media Parameters
PoC-1.0-con-S-0203 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE with a MAO request from a user who is not authorized for MAO
PoC-1.0-con-S-0205 – A Terminating PoC Server functioning as a Participating server receives a valid SIP INVITE
PoC-1.0-con-S-0206 – A Terminating PoC Server functioning as a Participating server receives a SIP 180 "Ringing" from a served PoC User
PoC-1.0-con-S-0207 – A Terminating PoC Server functioning as a Participating server receives a SIP 200 "OK"
PoC-1.0-con-S-0208 – A Terminating PoC Server functioning as a Participating server receives a SIP UPDATE with Media Parameters it does not support
PoC-1.0-con-S-0209 – A Terminating PoC Server functioning as a Participating server receives a valid SIP UPDATE
PoC-1.0-con-S-0210 – A Terminating PoC Server functioning as a Participating server receives a SIP CANCEL
PoC-1.0-con-S-0211 – A Terminating PoC Server functioning as a Participating server receives a SIP BYE
PoC-1.0-con-S-0216 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid Accept-Contact header
PoC-1.0-con-S-0217 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid Event header
PoC-1.0-con-S-0218 – A Terminating PoC Server functioning as a Participating server receives a PoC SIP Settings' PUBLISH request with an invalid originating user address
PoC-1.0-con-S-0219 – A Terminating PoC Server functioning as a Participating server receives a valid PoC SIP Settings' PUBLISH request
PoC-1.0-con-S-0252 – A Terminating PoC Server functioning as a Participating server sends a SIP NOTIFY

E.7 Server ICS

Preconditions		Applicable
ics_group_advertisement	Server supports Group Advertisement	
ics_no_group_advertisement	Server doesn't support Group Advertisement	
ics_simultaneous_sessions	PoC Server supports Simultaneous Sessions functionality	

E.8 Server IXIT

Value column shall be filled with appropriate values that are supported by the device.

Preconditions		Unit	Value
IXIT	*Description*		
ixit_max_participant_count	Maximum number of participants allowed by the document owner in a PoC Group Session	Integer	
ixit_sip_session_timer	SIP Session timer	Seconds	

E.9 Server ICS/IXIT to test case mapping

According to the ICS and IXIT marked in section E.7 and E.8 the applicaple test cases can be derived from the following table.

Preconditions	Test Case
ics_group_advertisement	PoC-1.0-con-S-0007 – An Originating PoC Server assumes the role of a Controlling PoC server upon receiving a SIP MESSAGE from a PoC User
	PoC-1.0-con-S-0008 – An Originating PoC Server assumes the role of a Participating PoC server upon receiving a SIP MESSAGE from a PoC User
	PoC-1.0-con-S-0145 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE with an invalid Request-URI
	PoC-1.0-con-S-0146 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE with an Originator PoC Address that is incorrect
	PoC-1.0-con-S-0147 – A Terminating PoC Server functioning as a Controlling server receives a valid SIP MESSAGE
	PoC-1.0-con-S-0212 – A Terminating PoC Server functioning as a Participating server receives a SIP MESSAGE with an Originator PoC Address that is not authorized for Group Advertisement
	PoC-1.0-con-S-0213 – A Terminating PoC Server functioning as a Participating server receives a SIP MESSAGE and anonymity is requested
	PoC-1.0-con-S-0214 – A Terminating PoC Server functioning as a Participating server receives a valid SIP MESSAGE

ics_no_group_advertisement	PoC-1.0-con-S-0144 – A Terminating PoC Server functioning as a Controlling server receives a SIP MESSAGE and it does not support Group Advertisement (Includes Optional Features)
ixit_max_participant_count	PoC-1.0-con-S-0114 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE for a Pre-arranged PoC group that already has a maximum number of participants
	PoC-1.0-con-S-0115 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with all the correct parameters
	PoC-1.0-con-S-0116 – A Terminating PoC Server functioning as a Controlling server receives a Pre-arranged group session SIP INVITE with all the correct parameters and anonymity is requested
	PoC-1.0-con-S-0117 – A Terminating PoC Server functioning as a Controlling server receives a 200 OK after an invited user accepts a SIP INVITE for a pre-arranged group session
	PoC-1.0-con-S-0118 – A Terminating PoC Server functioning as a Controlling server receives a 200 OK after an invited user accepts a SIP INVITE for a pre-arranged group session in which the <maximum-participant-count> is exceeded
	PoC-1.0-con-S-0120 – A Terminating PoC Server functioning as a Controlling server receives a SIP INVITE for an ongoing pre-arranged group session and the maximum participant limit has already been reached
	PoC-1.0-con-S-0121 – A Terminating PoC Server functioning as a Controlling server ignores subsequent 200 OK messages it receives for a Pre-arranged group session
	PoC-1.0-con-S-0122 – A Terminating PoC Server functioning as a Controlling server receives a SIP 180 “Ringing” from a Participating PoC Server and it has already returned a SIP 180 “Ringing” to the inviting user
	PoC-1.0-con-S-0130 – A Terminating PoC Server functioning as a Controlling server receives a SIP REFER message to add users to an ongoing pre-arranged session but the session already contains the maximum number of participants
ixit_sip_session_timer = 120	PoC-1.0-con-S-0148 – A Terminating PoC Server functioning as a Controlling server receives a SIP UPDATE message
	PoC-1.0-con-S-0215 – A Terminating PoC Server functioning as a Participating server sends a SIP BYE upon SIP Session Timer Expiry
ics_simultaneous_sessions	PoC-1.0-con-S-0204 – A Terminating PoC Server functioning as a Participating server receives a SIP INVITE for a simultaneous session after the user has reach the limit for simultaneous sessions