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Technical Specification

**Telecommunications and Internet converged Services and
Protocols for Advanced Networking (TISPAN);
Direct Communication Service Capability;
SIP Protocol Specification;**
(OMA-TS-POC_ControlPlane-V1, modified and OMA-TS-PoC_UserPlane-V1, modified
and OMA-TS-PoC_XDM-V1, modified)



Reference

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN).

1 Scope

The present document provides the ETSI TISPAN endorsement of, OMA-TS-PoC_ControlPlane-V1 [1], OMA-TS-PoC_UserPlane-V1 [2], and OMA-TS-PoC_XDM-V1 [3] in line with the requirements of TISPAN NGN.

The present document is applicable to Application Servers (ASs) and User Equipment (UE) providing Direct Communication functionality.

TISPAN IMS is based on 3GPP IMS. It shall be possible to:

- deploy TISPAN DC using 3GPP2 MMD as long as the related TISPAN requirements on IMS are considered within 3GPP2 MMD;
- have interworking of TISPAN DC with 3GPP PoC and 3GPP2 PoC services.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

- [1] OMA-TS- PoC-ControlPlane-V1: "OMA PoC Control Plane".
- [2] OMA-TS- PoC-UserPlane-V1: "OMA PoC User Plane".
- [3] OMA-TS- PoC-XDM-V1: "PoC XDM Specification".
- [4] ETSI ES 283 030: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Presence Service Capability; Protocol Specification [3GPP TS 24.141 V7.0.0, modified and OMA-TS-Presence-SIMPLE-V1-0, modified]".
- [5] ETSI TR 180 000: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Terminology".
- [6] ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified]".
- [7] ETSI TS 183 033: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia; Diameter based protocol for the interfaces between the Call Session Control Function and the User Profile Server Function/Subscription Locator Function; Signalling flows and protocol details [3GPP TS 29.228 V6.8.0 and 3GPP TS 29.229 V6.6.0, modified]".
- [8] ETSI TS 181 005: "Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); Services and Capabilities Requirements".

3 Definitions, and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in TR 180 000 [5] and the following apply:

direct communication client: entity performing the PoC Client functions that resides on the User Equipment in the originating or terminating network that supports the Direct Communication service

direct communication server: entity performing the PoC Server functions implementing the 3GPP IMS application level network functionality for the Direct Communication service in the originating and terminating network

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

| | |
|--------|--|
| ASs | Application Servers |
| DC | Direct Communication |
| IMS | IP Multimedia Subsystem |
| MMD | Multi Media Domain |
| NGN | Next Generation Networks |
| OMA | Open Mobile Alliance |
| PoC | Push to Talk over Cellular |
| SIP | Session Invitation Protocol |
| TISPAN | Telecommunications and Internet converged Services and Protocols for Advanced Networking |
| UE | User Equipment |
| XCAP | XML Configuration Access Protocol |
| XDM | XCAP Document Management |
| XDMS | XCAP Document Management Server |
| XML | Extensible Markup Language |

Endorsement Notice

The present document, in conjunction with OMA-TS- PoC_ControlPlane-V1 [1], OMA-TS- PoC_UserPlane-V1 [2] and OMA-TS-PoC_XDM-V1 [3] provides the stage 3 specification for the Direct Communication service for NGNs.

When SIP/IP Core is referred in the document, IMS is used.

Endorsement of OMA PoC Control Plane

This clause provides an endorsement of OMA-TS- PoC_ControlPlane-V1 [1].

The elements of OMA-TS- PoC_ControlPlane-V1 [1] apply, with the following modifications:

NOTE: Underlining and/or strike-out are used to highlight detailed modifications where necessary.

Throughout the text of the OMA-TS- PoC_ControlPlane-V1

The following rules are valid through the whole document:

- Replace "mobile originating/terminating" with "UE originating/terminating".
- Replace "mobile device" with "UE".

Throughout the document when this text exists:

When the SIP/IP Core corresponds with 3GPP/3GPP2 IMS, the PoC Client SHALL use 3GPP/3GPP2 IMS mechanisms according to rules and procedures of [TS24.229] / [3GPP2 X.S0013.4] with the clarifications given in this clause.

Replace it with the following:

When the SIP/IP Core corresponds to TISPAN IMS the DC Client SHALL use TISPAN IMS mechanisms according to rules and procedures of ES 283 003 [6] with the clarifications given in this clause.

Clause 1 Scope

In OMA-TS- PoC_Control Plane-V1 [1] does not apply and is replaced by the clause 1 'Scope' in the present document.

Clause 2 References

In OMA-TS- PoC_Control Plane-V1 [1] applies with the modifications described in table 1.

The references listed in table 1 are replaced by references applicable to NGN.

Table 1: List of references to be replaced

| Reference no. | Reference in OMA-TS- PoC_ControlPlane-V1 | Replaced reference(s) |
|-----------------------------|--|---|
| [TS24.229] | 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3" (Release 6), URL:http://www.3gpp.org/ftp/Specs/latest/Rel-6/24_series/ | ETSI ES 283 003 'Telecommunications and Internet converged Services and Protocols for Advanced Networks (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol 3GPP TS. 24.229 (Release 7), modified '. |
| [OMA- PoC_UP] | OMA Push to talk over Cellular (PoC) - User Plane | The present document. |
| [OMA PoC_XDM Specification] | OMA-PoC_XDM_Specification-V1. | The present document. |
| [OMA-Pres-Spec] | OMA SIP/SIMPLE Presence Specification (OMA-PAG-SIMPLE-Spec-V1) | ETSI TS 283 030 'Telecommunications and Internet converged Services and Protocols for Advanced Networks (TISPAN); Presence Application Service Capability; SIP Protocol Specification'. |
| [TS29.228] | 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents", (Release 6) URL: http://www.3gpp.org/ftp/Specs/latest/Rel-6/29_series/ | ETSI TS 183 033 DTS-03060 'Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia; IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents & IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Cx and Dx interfaces based on the Diameter protocol [3GPP TS.29.228 v.6.8.0 and 3GPP TS.29.229 v.6.6.0, modified]' |
| [OMA- PoC_AD] | OMA Push to talk over Cellular (PoC) - Architecture | ETSI TS 182 017 DTR 02034 WG 2 Workitem on Direct Communication |

Clause 3 Terminology and Conventions

In OMA-TS- PoC_ControlPlane-V1 [1] applies with the additions in the clause 3 "Definitions, and abbreviations" in the present document.

Clause 3.2

For the purposes of the present document, the terms and definitions given in OMA-TS- PoC_ControlPlane-V1 [1] apply with the following additions:

Instead of PoC the term DC is used.

Replace 3GPP/3GPP2 with TISPAN

Clause 3.3

For the purposes of the present document, the following abbreviations apply:

DC Direct Communication

Clause 4 Introduction

In OMA-TS- PoC_ControlPlane-V1 applies.

Clause 5 Common procedures

In OMA-TS- PoC_ControlPlane-V1 applies.

Clause 6 Procedures at the PoC Client

In OMA-TS- PoC_ControlPlane-V1 applies.

Clause 7 Procedures at the PoC Server

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix A Static Conformance Requirements (SCR)

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix B The parameters to be provisioned for PoC service

In OMA-TS- PoC_ControlPlane-V1 applies with the following changes:

NGN Direct Communication ~~OMA PoC~~ Device Management general

This appendix describes the parameters that are needed for initiation of ~~PoC~~ Direct Communication service, as well as continuous provisioning by service provider. These parameters are specified in Client Provisioning Application Characteristics document (AC file) and Device Management Management Object (DM MOs). The bootstrap function specified in [Provisioning Bootstrap] and [OMA DM] SHALL be used to enforce the security of provisioning. Existing parameters in [Provisioning Content] and [OMA DM] are re-used; those without corresponding parameters are defined in present specification and to be registered in OMNA through OMA official registration procedures.

- ~~1. APPID (Application ID): The application characteristics name for this application, to be used by DM Client to uniquely identify the application.~~
- ~~2. NAME: Application name. To be displayed in equipment, it's specific for each service provider.~~
- ~~3. PROVIDER ID: provides an identifier for the application service access point described by an APPLICATION characteristic.~~
- ~~4. TO NAPID: This parameter allows an application to refer to a network access point with a matching NAPID parameter. It is only possible to refer to network access points defined within the same provisioning document.~~
- ~~5. TO APPREF: The TO APPREF parameter links the APPLICATION characteristics to another secondary APPLICATION characteristic with a matching APPREF parameter.~~
- 6. Pre-established Session support: A flag to inform whether the ~~PoC~~ Direct Communication Server supports the Pre-established Session functionality.
- 7. Support for Simultaneous PoC Sessions: Maximum number of Simultaneous PoC Sessions supported for this PoC User. The value 0 is used to indicate that Simultaneous PoC Sessions are not supported.

- 8. Max Ad-hoc Group size: Maximum number of Participants allowed for an Ad-hoc PoC Group PoC Session.
- 9. Conference-Factory-URI: A SIP URI used for setting up an Ad-hoc PoC Group or 1-1 PoC Session.
- 10. Exploder-URI: A SIP URI used for sending SIP MESSAGE e.g. Group Advertisement to an URI-list.
- 11. Conference-URI Template: A template used by the XDM Client to propose a Conference URI when creating a PoC Group document.
- 12. T10 (Talk Burst Release) timer: This parameter indicates the value of the T10 (Talk Burst Release) timer in milliseconds.
- 13. T11 (Talk Burst Request) timer: This parameter indicates the value of the T11 (Talk Burst Request) timer in milliseconds.
- 14. T13 (End of RTP Media) timer: This parameter indicates the value of the T13 (End of RTP Media) timer in milliseconds.
- 15. ~~PoC~~ Direct Communication Server Presence support: This parameter indicates the Presence publish capability of the ~~PoC~~ Direct Communication Server, the PoC status on behalf of a ~~PoC~~ Direct Communication Client.

NOTE: The parameters 12 - 14 are parameters needed for ~~OMA-PoC-User Plane~~ procedures.

The parameters from 6 - 15 are defined in the present specification for Direct Communication service. They are to be registered in OMNA.

The ~~PoC~~ Direct Communication Client SHALL have provisioned parameters ~~1, 2, 4, 5, 6, 7, 8, 9, 11, 12, 13~~ and 15 and the ~~PoC~~ Direct Communication Client SHOULD have the parameters, ~~3, 10~~ and 14 provisioned. These parameters SHALL be obtained via the DM-1 reference point, from the data which is provisioned to the DM Client as specified in [Provisioning Content] and [OMA DM].

B.2 OMA PoC Application Characteristics file

OMA PoC has defined a client provisioning file called Application characteristics (AC) file based on [OMA Client Provisioning]. It MAY be used for initial provisioning of PoC service configuration to the User Equipment.

The file is specified in [OMA- PoC_AC].

B.3 OMA PoC Device Management Management Object (MO) file

This clause defines the mobile device Management Object (MO) for ~~Direct Communication~~ OMA-PoC. The MO MAY be used for initial provisioning of parameters when the DM Profile is to be used (as specified on [OMA-DM-v1-2]), and the MO SHOULD be used for later provisioning of parameters according to [OMA-DM-v1-1-2] or [OMA-DM-v1-2], if required by the service provider to update service configurations.

The OMA PoC Management Object consists of relevant parameters required by the OMA PoC Enabler]. It is compatible with OMA Device Management protocol specifications [OMA-DM-v1-1-2], and is defined using the OMA DM Device Description Framework as described in [OMA-SyncML-DMTND-V1-1-2] and [OMA-SyncML-DMStdObj-V1-1-2].

The Management Object Identifier is: org.openmobilealliance/1.0/PoC.

Protocol compatibility: This MO is compatible with OMA DM 1.1.2.

Management object name: OMA-PoC.

Appendix C "Presence information elements and procedures"

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix D "Initial Filter Criteria"

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix E "Documentation of SIP, SDP and XML"

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix F "Examples of signalling flows"

In OMA-TS- PoC_ControlPlane-V1 applies.

Appendix G "Change History"

In OMA-TS- PoC_ControlPlane-V1 is not applicable.

Endorsement of OMA PoC User Plane

This clause provides an endorsement of OMA-TS- PoC_UserPlane-V1 [2].

The elements of OMA-TS- PoC_UserPlane-V1 [2] apply, with the following modifications:

Throughout the text of the OMA-TS- PoC_UserPlane-V1

The following rules are valid through the whole document.

Replace 3GPP/3GPP2 IMS with TISPAN IMS.

Replace "mobile originating/terminating" with "UE originating/terminating".

Replace "mobile device" with "UE".

Clause 1 "Scope"

In OMA-TS- PoC_UserPlane-V1 [2] does not apply and is replaced by the clause 1 "Scope" in the present document.

Clause 2 "References"

In OMA-TS- PoC_UserPlane-V1 [2] applies with the modifications described in table 2.

The references listed in table 2 are replaced by references applicable to NGN.

Table 2: List of references to be replaced

| Reference no. | References in OMA-TS- PoC_UserPlane-V1 | Replaced reference(s) in the present document |
|-----------------|---|--|
| [OMA- PoC_CP] | 'OMA PoC Control Plane Document', Version 1, Open Mobile Alliance™, OMA-TS- PoC_ControlPlane-V1, URL:http://www.openmobilealliance.org/ | The present document. |
| [OMA- PoC_XDMS] | OMA-PoC_XDM_Specification' Version 1, Open Mobile Alliance™, OMA-TS-PoC_XDM-V1, URL:http://www.openmobilealliance.org/ | The present document. |
| [TS24.229] | 3GPP TS 24.229 '3rd Generation Partnership Project; Technical Specification Group Core Network; IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (Release 6)' | ETSI ES 283 003 'Telecommunications and Internet converged Services and Protocols for Advanced Networks (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol 3GPP TS. 24.229 (Release 7), modified'. |

| Reference no. | References in OMA-TS-PoC_UserPlane-V1 | Replaced reference(s) in the present document |
|---------------|--|--|
| [TS29.228] | 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents", (Release 6) URL: http://www.3gpp.org/ftp/Specs/latest/Rel-6/29_series/ | ETSI TS 183 033 DTS-03060 'Telecommunications and Internet Converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia; IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents & IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Cx and Dx interfaces based on the Diameter protocol [3GPP TS.29.228 v.6.8.0 and 3GPP TS.29.229 v.6.6.0, modified]' |
| [OMA- PoC_AD] | OMA Push to talk over Cellular (PoC) – Architecture | ETSI TS 182 017 DTR 02034 WG 2 Workitem on Direct Communication |

Clause 3 "Terminology and Conventions"

In OMA-TS- PoC_UserPlane-V1 [2] applies with the clarification additions in the clause 3 "Definitions, and abbreviations" in the present document.

Clause 3.2

For the purposes of the present document, the terms and definitions given in OMA-TS- PoC_UserPlane-V1 [2] apply with the following additions:

Instead of PoC the term DC is used.

Clause 3.3

For the purposes of the present document, the following abbreviations apply:

DC Direct Communication

Clause 4 "Introduction"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Clause 5 "Transport"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Clause 6 "Talk burst control"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Clause 7 "Media control"

In OMA-TS- PoC_UserPlane-V1 [2] applies with the addition of the following text in clause 7.9 "Codecs":

For TISPAN NGN codecs see [8].

Direct Communication server support terminal codec requirements in [8] as reflected in the conformance table in A.2.4.

Clause 8 "Talker Identification"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Clause 9 "Timers"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Appendix A "Static Conformance Requirement (SCR)"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

A.1 PoC Client

Applies with the change as follows:

| Item | Function | Reference | Status | Requirement |
|---------------------------|---|---------------------------------|--------|---|
| PoC_UserPlaneV1-UMC-C-001 | Support of quality feed back according to rules and procedures specified in [RFC3550]. | Clause 7.1 | O | |
| PoC_UserPlaneV1-UMC-C-002 | Supports the transmission of RTCP SR/RR compound packets. | Clause 7.1.2 | O | PoC_UserPlaneV1-UMC-C-001 |
| 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. | Clause 7.1.2.2 | O | PoC_UserPlaneV1-UMC-C-002 |
| PoC_UserPlaneV1-UMC-C-004 | Implement a timer that supervises the reception of the RTCP SR compound packet. | Clause 7.1.2.2 | O | PoC_UserPlaneV1-UMC-C-003 |
| PoC_UserPlaneV1-UMC-C-005 | Support of Media Parameter negotiation. | Clause 7.2, 7.2.1.1 and 7.2.1.2 | M | |
| PoC_UserPlaneV1-UMC-C-006 | Support of User Plane adaptation. | Clause 7.3 | O | |
| PoC_UserPlaneV1-UMC-C-007 | Changes the voice frame packetization or voice codec mode by Out-band signalling using SDP payload within SIP messages. | Clause 7.3 | O | PoC_UserPlaneV1-UMC-C-006 |
| PoC_UserPlaneV1-UMC-C-008 | Void. | | | |
| PoC_UserPlaneV1-UMC-C-009 | Initiate User Plane adaptation (out-band) triggered by e.g. roaming to the system with different media capabilities. | Clause 7.3.1 | O | PoC_UserPlaneV1-UMC-C-006 |
| PoC_UserPlaneV1-UMC-C-010 | Supports Media on and off hold. | Clause 7.4.1 | O | |
| PoC_UserPlaneV1-UMC-C-011 | Sends Talk Bursts, when the Media is on hold. | Clause 7.4 | O | PoC_UserPlaneV1-UMC-C-010 |
| PoC_UserPlaneV1-UMC-C-012 | Supports Simultaneous PoC Sessions. | Clause 7.5.1 | O | |
| PoC_UserPlaneV1-UMC-C-013 | Supports the sending of RTP Media packets to any of the Simultaneous PoC Sessions according to the PoC User selection. | Clause 7.5.1 | O | PoC_UserPlaneV1-UMC-C-012 |
| PoC_UserPlaneV1-UMC-C-014 | Supports RTP Media Session release of the Pre-established Session. | Clause 7.6 | O | PoC_UserPlaneV1-UTB-C-014 |
| PoC_UserPlaneV1-UMC-C-015 | Support of Media transfer. | Clause 7.7.1 | M | |
| PoC_UserPlaneV1-UMC-C-016 | Supports media buffering for handling of variable latency in incoming RTP Media packets. | Clause 7.8.1 | O | |
| PoC_UserPlaneV1-UMC-C-017 | Support coding and decoding of Media | Clause 7.9 | M | PoC_UserPlaneV1-UMC-C-018 OR PoC_UserPlaneV1-UMC-C-019 OR PoC_UserPlaneV1-UMC-C-020 |
| PoC_UserPlaneV1-UMC-C-018 | Supports codecs recommended by 3GPP | Clause 7.9 | O | |
| PoC_UserPlaneV1-UMC-C-019 | Supports codecs recommended by 3GPP2 | Clause 7.9 | O | |
| PoC_UserPlaneV1-UMC-C-020 | Supports codecs recommended by TISPAN NGN | Clause 7/9 | O | |

A.2 PoC Server performing the Participating PoC Function

A.2.4 Media Control

Applies with the change as follows:

| Item | Function | Reference | Status | Requirement |
|---------------------------|--|----------------|--------|---|
| PoC_UserPlaneV1-PMC-S-001 | Support of quality feed back according to rules and procedures specified in [RFC3550]. | Clause 7.1.1 | O | PoC_UserPlaneV1-PPR-S-002 |
| PoC_UserPlaneV1-PMC-S-002 | Modify the content of the RTCP SR compound packet send by the PoC Client in an interrupted PoC Session according to rules and procedures specified in [RFC3550]. | Clause 7.1.3 | O | PoC_UserPlaneV1-UMC-S-001 |
| PoC_UserPlaneV1-PMC-S-003 | Media parameter negotiation. | Clause 7.2.1.2 | O | PoC_UserPlaneV1-PPR-S-002 |
| PoC_UserPlaneV1-PMC-S-004 | Support for putting Media on/off hold. | Clause 7.4.2 | O | PoC_UserPlaneV1-PPR-S-002 |
| PoC_UserPlaneV1-PMC-S-005 | User Plane adaptation. | Clause 7.3 | O | PoC_UserPlaneV1-PPR-S-002 |
| PoC_UserPlaneV1-PMC-S-006 | Forward the Talk Bursts and TBCP messages between the PoC Client and the PoC Server performing the Controlling PoC Function while Media is placed on hold for a PoC Session. | Clause 7.4.2 | O | PoC_UserPlaneV1-PMC-S-004 |
| PoC_UserPlaneV1-PMC-S-007 | Simultaneous PoC Sessions. | Clause 7.5.2 | O | PoC_UserPlaneV1-PTB-S-003 |
| PoC_UserPlaneV1-PMC-S-008 | Forwards the TBCP messages of all PoC Sessions from the PoC Server(s) performing the Controlling PoC Function to PoC Client. | Clause 7.5.2 | O | PoC_UserPlaneV1-PMC-S-007 |
| PoC_UserPlaneV1-PMC-S-009 | Sends a RTCP SR message to the PoC Client concerning the PoC Session, which was interrupted due to activity in another PoC Session. | Clause 7.5.2 | O | PoC_UserPlaneV1-PMC-S-007 |
| PoC_UserPlaneV1-PMC-S-010 | Modifies the RTCP RR and SR messages sent between the PoC Client and the PoC Server to improve the accuracy of the quality feedback in the case of interrupted Talk Burst. | Clause 7.5.2 | O | PoC_UserPlaneV1-PMC-S-007 |
| PoC_UserPlaneV1-PMC-S-011 | Sends a TBCP Talk Burst Taken message prior to the first RTP packet being sent to the PoC Client. | Clause 7.5.2 | O | PoC_UserPlaneV1-PMC-S-007 |
| PoC_UserPlaneV1-PMC-S-013 | Supports Media transfer. | Clause 7.7.2 | O | PoC_UserPlaneV1-PPR-S-002 AND (PoC_UserPlaneV1-PMC-S-015 OR PoC_UserPlaneV1-PMC-S-016 OR PoC_UserPlaneV1-PMC-S-017) |
| PoC_UserPlaneV1-PMC-S-014 | Discards RTP Media of the PoC Sessions not selected for transmitting to the PoC Client. | Clause 7.7.2 | O | PoC_UserPlaneV1-PTB-S-003 |
| PoC_UserPlaneV1-PMC-S-015 | Supports codecs recommended by 3GPP. | Clause 7.9 | O | PoC_UserPlaneV1-PMC-S-013 |
| PoC_UserPlaneV1-PMC-S-016 | Supports codecs recommended by 3GPP2. | Clause 7.9 | O | PoC_UserPlaneV1-PMC-S-013 |
| PoC_UserPlaneV1-PMC-S-017 | Supports codecs recommended by TISPAN NGN. | Clause 7.9 | O | PoC_UserPlaneV1-PMC-S-013 |

Appendix B "Message flows"

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Appendix C "Change History"

In OMA-TS- PoC_UserPlane-V1 [2] is not applicable.

Appendix D "RTP Session description parameters (Informative) "

In OMA-TS- PoC_UserPlane-V1 [2] applies.

Endorsement of PoC XDM Specification

This clause provides an endorsement of OMA-TS-PoC_XDM-V1 [3].

The elements of OMA-TS-PoC_XDM-V1 [3] apply, with the following modifications:

Throughout the text of the OMA-TS-PoC_XDM-V1

Clause 1 "Scope"

In OMA-TS-PoC_XDM-V1 [3] does not apply and is replaced by the clause 1 "Scope" in the present document.

Clause 2 "References"

In OMA-TS-PoC_XDM-V1 [3] applies with the modifications described in table 3.

The references listed in table 3 are replaced by references applicable to NGN.

Table 3: List of references to be replaced

| Reference no. | Reference in OMA-TS-PoC_XDM-V1 | Replaced reference(s) in the present document |
|---------------|--|--|
| [SHARED_XDM] | 'OMA Shared XDM Specification', Version 1, Open Mobile Alliance™, OMA-TS-XDM_Shared-V1, URL:http://www.openmobilealliance.org/ | ETSI TS 183 038 'Telecommunications and Internet converged Services and Protocols for Advanced Networks (TISPAN); PSTN/ISDN Simulation Services; Extensible Markup Language (XML) Document Management; Protocol Specification;' |

Clause 3 "Terminology and Conventions"

In OMA-TS-PoC_XDM-V1 [3] applies with the additions in the clause 3 "Definitions, symbols and abbreviations" in the present document.

Clause 3.2

For the purposes of the present document, the terms and definitions given in OMA-TS- PoC_UserPlane-V1 [2] apply with the following additions:

Instead of PoC the term DC is used.

Replace 3GPP/3GPP2 with TISPAN

Clause 3.3

For the purposes of the present document, the following abbreviations apply:

DC Direct Communication

Clause 4 "Introduction"

In OMA-TS-PoC_XDM-V1 [3] applies.

Clause 5 "PoC XDM Application Usages"

In OMA-TS-PoC_XDM-V1 [3] applies.

Clause 6 "PoC Extensions to Shared XDM Application Usages"

In OMA-TS-PoC_XDM-V1 [3] applies.

Appendix A "Static Conformance Requirements"

In OMA-TS-PoC_XDM-V1 [3] applies.

Appendix B "Examples"

In OMA-TS-PoC_XDM-V1 [3] applies.

Appendix C "Change History"

Is not applicable.

History

| Document history | | |
|-------------------------|---------------|-------------|
| V2.1.1 | February 2007 | Publication |
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