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Contents

1. SCOPE ......................................................................................................................... 4

2. REFERENCES ............................................................................................................... 5
   2.1 NORMATIVE REFERENCES .................................................................................. 5
   2.2 INFORMATIVE REFERENCES .......................................................................... 6

3. TERMINOLOGY AND CONVENTIONS .................................................................... 7
   3.1 CONVENTIONS ....................................................................................................... 7
   3.2 DEFINITIONS .......................................................................................................... 7
   3.3 ABBREVIATIONS .................................................................................................... 10

4. RELEASE VERSION OVERVIEW ............................................................................. 12
   4.1 VERSION 1.0 FUNCTIONALITY .......................................................................... 13
   4.2 VERSION 2.0 FUNCTIONALITY .......................................................................... 13

5. DOCUMENT LISTING FOR POC V2.0 ................................................................. 19

6. CONFORMANCE REQUIREMENTS NOTATION DETAILS .................................... 22

7. ERDEF FOR POC - CLIENT REQUIREMENTS .................................................. 23

8. ERDEF FOR POC - SERVER REQUIREMENTS .................................................. 24

9. ERDEF FOR POC - POC BOX REQUIREMENTS ................................................ 25

APPENDIX A. CHANGE HISTORY (INFORMATIVE) .................................................. 26
   A.1 APPROVED VERSION HISTORY ...................................................................... 26
   A.2 DRAFT/CANDIDATE VERSION 2.0 HISTORY ................................................ 26

Tables

Table 1: Listing of Documents in PoC V2.0 Enabler ....................................................... 21
Table 2: ERDEF for PoC Client-side Requirements ....................................................... 23
Table 3: ERDEF for PoC Server-side Requirements ....................................................... 24
Table 4: ERDEF for PoC Box Requirements ................................................................... 25
1. Scope

The scope of this document is limited to the Enabler Release Definition of Push to talk over Cellular according to OMA Release process and the Enabler Release specification baseline listed in section 7.
2. References

2.1 Normative References

- [POC1_ERELD] “Enabler Release Definition for Push-to-Talk over Cellular”, Version 1.0.2, Open Mobile Alliance™, OMA-ERELD-PoC-V1_0_2, URL: http://www.openmobilealliance.org/
- [POC1_GA] “Group Advertisement”, Version 1.0.1, Open Mobile Alliance™, OMA-SUP-XSD_poc_group_advertisement-V1_0_1, URL: http://www.openmobilealliance.org/
- [POC1_LST] “List Service”, Version 1.0.1, Open Mobile Alliance™, OMA-SUP-XSD_poc_listService-V1_0_1, URL: http://www.openmobilealliance.org/
- [POC1_RD] “Push to Talk over Cellular Requirements”, Version 1.0, Open Mobile Alliance™, OMA-RD-PoC-V1_0, URL: http://www.openmobilealliance.org/
- [POC1_UP] “PoC User Plane”, Version 1.0.1, Open Mobile Alliance™, OMA-TS-PoC_User Plane-V1_0_1, URL: http://www.openmobilealliance.org/
- [POC1_USG] “PoC Usage”, Version 1.0.2, Open Mobile Alliance™, OMA-SUP-XSD_poc_pocusage-V1_0_2, URL: http://www.openmobilealliance.org/
- [POC2_AC] “PoC Application Characteristics”, Version 2.0, Open Mobile Alliance™, OMA-SUP-AC_ap0006_POC-V2_0, URL: http://www.openmobilealliance.org/
- [POC2_AD] “Push to talk over Cellular (PoC) – Architecture”, Version 2.0, Open Mobile Alliance™, OMA-AD-PoC-V2_0, URL: http://www.openmobilealliance.org/
- [POC2_GAD] “Group Advertisement Dispatch Attribute”, Version 2.0, Open Mobile Alliance™, OMA-SUP-XSD_poc_dispatchInd-V2_0, URL: http://www.openmobilealliance.org/
- [POC2_IWF] “PoC Interworking Service”, Version 2.0, Open Mobile Alliance™, OMA-TS-PoC-Interworking-Service-V2_0, URL: http://www.openmobilealliance.org/
2.2 Informative References

[OMADICT]  “Dictionary for OMA Specifications”, Version 2.5, Open Mobile Alliance™,
OMA-ORG-Dictionary-V2_5, URL:http://www.openmobilealliance.org/

NOTE: There are additional normative references given in the above listed documents.
3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [OMA_SCR_Rules]

3.2 Definitions

<table>
<thead>
<tr>
<th>Definition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1 PoC Session</td>
<td>A feature enabling a PoC User to establish a PoC Session with another PoC User.</td>
</tr>
<tr>
<td>1-many-1 PoC Group Session</td>
<td>A PoC Session established by a PoC User to a Pre-arranged PoC Group, in which one Participant is a Distinguished Participant and other Participants are Ordinary Participants.</td>
</tr>
<tr>
<td>Ad-hoc PoC Group Session</td>
<td>A PoC Group Session established by a PoC User to PoC Users listed on the invitation. The list includes PoC Users or PoC Groups or both.</td>
</tr>
<tr>
<td>Answer Mode</td>
<td>A PoC Client mode of operation for the terminating PoC Session invitation handling.</td>
</tr>
<tr>
<td>Answer Mode Indication</td>
<td>A PoC Service Setting indicating the current Answer Mode of the PoC Client.</td>
</tr>
<tr>
<td>Audio</td>
<td>General communication of sound with the exception of PoC Speech.</td>
</tr>
<tr>
<td>Automatic Answer Mode</td>
<td>Answer Mode where the PoC Client accepts a PoC Session establishment request without manual intervention from the PoC User. The Media is immediately played when received.</td>
</tr>
<tr>
<td>Chat PoC Group</td>
<td>A persistent PoC Group in which a PoC User individually joins to have a PoC Session with other joined PoC Users, i.e., the establishment of a PoC Session to a Chat PoC Group does not result in other PoC Users being invited.</td>
</tr>
<tr>
<td>Chat PoC Group Session</td>
<td>A PoC Session established to a Chat PoC Group.</td>
</tr>
<tr>
<td>Control Plane</td>
<td>The specification of the signalling between PoC Client and PoC Server, between PoC Box and PoC Server and between PoC Servers for the Push to talk over Cellular (PoC) service.</td>
</tr>
<tr>
<td>Controlling PoC Function</td>
<td>A function implemented in a PoC Server, providing centralized PoC Session handling, which includes Media distribution, Talk Burst Control, Media Burst Control, policy enforcement for participation in the PoC Group Sessions, and the Participant information.</td>
</tr>
<tr>
<td>Discrete Media</td>
<td>Media that itself does not contain an element of time (e.g. images, text).</td>
</tr>
<tr>
<td>Dispatch PoC Session</td>
<td>The PoC Session of a Dispatch PoC Group, or a subset of the Dispatch PoC Group, in which the 1-many-1 communication method is used.</td>
</tr>
<tr>
<td>Distinguished Participant</td>
<td>A Participant in a 1-many-1 PoC Group Session that sends Media to all Ordinary Participants, and that receives Media from any Ordinary Participant.</td>
</tr>
<tr>
<td>Group</td>
<td>A Group is a predefined set of PoC Users that is identified by a SIP URI. A PoC Client uses the Group to establish PoC Sessions and to define PoC Session access policy.</td>
</tr>
<tr>
<td>Group Advertisement</td>
<td>A feature that provides the capability to inform other PoC Users of the existence of a PoC Group.</td>
</tr>
</tbody>
</table>

NOTE: A Chat PoC Group is a persistent PoC Group where the <invite-members> element is set to "false" as specified in the [OMA-PoC-Document-Mgmt] "PoC Group".
Group List
A list of members in a Pre-arranged PoC Group or restricted Chat PoC Group. Each member is identified by a SIP URI or a TEL URI.

Home PoC Server
The PoC Server of the PoC Service Provider that provides PoC service to the PoC User.

Incoming Instant Personal Alert Barring
A PoC Service Setting for the PoC Client that indicates the PoC User's desire for the PoC service to block all incoming Instant Personal Alerts.

Incoming PoC Session Barring
A PoC Service Setting for the PoC Client that indicates the PoC User's desire for the PoC service to block all incoming PoC Session requests.

Instant Personal Alert
A feature in which a PoC User sends a SIP based instant message to a PoC User requesting a 1-1 PoC Session.

Invited PoC User
The PoC User who has been invited to a PoC Session.

Manual Answer Mode
A mode of operation in which the PoC Client requires the PoC User to manually accept the PoC Session invitation before the PoC Session is established.

Media
Forms of information that are exchanged between Participants. Media may come in different forms, which are referred to as Media Types.

Media Burst
Flow of Media from a PoC Client that has the permission to send Media to the receiving PoC Client(s).

Media Burst Control
Media Burst Control is a control mechanism that arbitrates requests from the PoC Clients, for the right to send Media and Multimedia.

Media Burst Control Protocol
Media Burst Control Protocol (MBCP) is a protocol for performing Media Burst Control, and is defined in [POC2_UP].

Media Parameters
Media Parameters are SIP/SDP based information exchanged between the PoC Server and the PoC Client, between the PoC Server and the PoC Box and between PoC Servers that specify the characteristics of the Media for a PoC Session being established or that already exists.

Media Stream
An instance of the transmission of a Media Type, which is used as the basic unit to distinguish each Media flow. Multiple Media Streams can be combined to transmit multimedia.

Media Type
Media Types share a characteristic of human perception. Media Types are either realtime or non-realtime, like:
- PoC Speech
- Audio (e.g. music)
- Video
- Discrete Media (e.g. still image, formatted and non-formatted text, file)

Media-floor Control Entity
A Media Control resource shared by Participants in a PoC Session. The Media-floor Control Entity is controlled by a state machine to ensure that only one Participant can access the Media resource at the same time. One Media-floor Control Entity can handle one or more Media Streams according to negotiation.

Multimedia
Multimedia is the simultaneous existence of multiple Media Types like
- audiovisual
- video plus subtitles
Multimedia from a single source that involves real-time Media Types are assumed to be synchronized.

NW PoC Box
A PoC functional entity in the PoC Network where PoC Session Data and PoC Session Control Data can be stored.

On-demand Session
A PoC Session set-up mechanism in which all Media Parameters are negotiated at PoC Session establishment.

Ordinary Participant
A Participant in a 1-many-1 PoC Group Session that is only able to send and receive Media to and from the Distinguished Participant.

Participant
A Participant is a PoC User in a PoC Session.
### Participating PoC Function
A function implemented in a PoC Server, which provides PoC Session handling, which includes policy enforcement for incoming PoC Sessions and relays Talk Burst Control and Media Burst Control messages between the PoC Client and the PoC Server performing the Controlling PoC Function. The Participating PoC Function may also relay RTP Media between the PoC Client and the PoC Server performing the Controlling PoC Function.

### PoC Box
A PoC functional entity where PoC Session Data and PoC Session Control Data can be stored. It can be a NW PoC Box or a UE PoC Box.

### PoC Client
A functional entity that resides on the User Equipment that supports the PoC service.

### PoC Dispatcher
The Participant in a Dispatch PoC Session that sends Media to all PoC Fleet Members and that receives Media from any PoC Fleet Member.

**NOTE:** The PoC Dispatcher is an enhancement to the PoC 1 Distinguished Participant.

### PoC Fleet Member
A Participant in a Dispatch PoC Session that is only able to send Media to the PoC Dispatcher, and that likewise is only able to receive Media from the PoC Dispatcher.

**NOTE:** PoC Fleet Member is the same as Ordinary Participant in PoC 1.

### PoC Group
A predefined set of PoC Users together with its attributes. A PoC Group is identified by a SIP URI (PoC Group Identity for Pre-arranged PoC Groups and Chat PoC Groups). PoC User uses PoC Groups e.g. to establish PoC Group Sessions.

### PoC Group Identity
A SIP URI identifying a Pre-arranged PoC Group or a Chat PoC Group. A PoC Group Identity is used by the PoC Client e.g. to establish PoC Group Sessions to the Pre-arranged PoC Groups and Chat PoC Groups.

### PoC Group Session
A Pre-arranged PoC Group Session, Ad-hoc PoC Group Session or Chat PoC Group Session.

### PoC Network
Network comprising of a SIP/IP Core and PoC Server(s), which provide PoC capabilities to the associated PoC capable User Equipments which are compliant with OMA PoC Service Enabler specifications.

### PoC Remote Access
A method of providing a compliant PoC User access to a SIP/IP Core and PoC Network via a potentially non-SIP/IP based network.

### PoC Server
A network element, which implements the 3GPP/3GPP2 IMS application level network functionality for the PoC service. A PoC Server can perform the role of the Controlling PoC Function or Participating PoC Function, or both at the same time.

### PoC Service Provider
A PoC Service Provider provides PoC Service – on its own or in conjunction with other Value Added Services – to his PoC Subscribers.

### PoC Service Setting
A set of parameters indicating the capability of the PoC Client and the willingness of the PoC User to support related PoC Client and PoC Server functionalities, e.g. Answer Mode Indication, Incoming PoC Session Barring, Incoming Instant Personal Alert Barring and Simultaneous PoC Sessions Support.

### PoC Session
A PoC Session is a SIP Session established by the procedures of this specification. This specification supports the following types of PoC Sessions: 1-1 PoC Session, Ad-hoc PoC Group Session, Pre-arranged PoC Group Session, or Chat PoC Group Session.

### PoC Session Control Data
Information about PoC Session Data e.g. time and date, PoC Session initiator.

### PoC Session Data
Media Bursts and Media Burst Control information exchanged during a PoC Session e.g. Video frames, an image or Talk Burst.

### PoC Speech
Communication of speech as defined by PoC version 1.0.

### PoC Subscriber
Is one whose service subscription includes the PoC service. A PoC Subscriber can be the same person as a PoC User.

**NOTE:** In [POC1_RD] the term “PoC Subscriber” is sometimes used to mean the same as term “PoC User” in [POC2_AD], [POC2_CP] and [POC2_UP].

### PoC User
A user of the PoC service. A PoC User can be the same person as a PoC Subscriber. A PoC User uses the PoC features through the User Equipment.
Pre-arranged PoC Group

A persistent PoC Group. The establishment of a PoC Session to a Pre-arranged PoC Group results in the members being invited.

NOTE: A Pre-arranged PoC Group is a persistent PoC Group, where the <invite-members> element is set to "true" as specified in the [OMA-PoC-Document-Mgmt] "PoC Group".

Pre-arranged PoC Group Session

A PoC Session established by a PoC User to a Pre-arranged PoC Group.

Pre-established Session

A PoC Session established between the PoC Client and the Home PoC Server containing at least one Media Stream bound to a Media-floor Control Entity. The PoC Client establishes the Pre-established Session prior to making requests for PoC Sessions to other PoC Users. To establish a PoC Session based on a SIP request from the PoC User, the PoC Server conferences other PoC Servers/Users to the Pre-established Session so as to create an end-to-end connection.

RTP Media

The Media carried in an RTP payload.

Sender Identification

The procedure by which the identity of the current Media sender is determined and made known to receivers on the PoC Session.

Simultaneous PoC Session

Functionality, where Home PoC Server discards Media for keeping conversation uninterrupted, in case a PoC User is a Participant in more than one PoC Session simultaneously using the same PoC Client.

Simultaneous PoC Sessions Support

A PoC Service Setting for the PoC Client that indicates that the PoC Client is able and PoC User is willing to use Simultaneous PoC Sessions.

SIP Session

A as SIP dialog. From [RFC 3261], a SIP dialog is defined as follows: A dialog is a peer-to-peer SIP relationship between two UAs that persists for some time. A dialog is established by SIP messages, such as a 2xx response to an INVITE request. A dialog is identified by a call identifier, local tag, and a remote tag. A dialog was formerly known as a call leg in RFC 2543.

SIP URI

From [RFC 3261]: "A SIP or SIPS URI identifies a communications resource” and "follows the guidelines in RFC 2396 [5]". PoC uses SIP URIs to identify PoC Clients, PoC Servers, and PoC Sessions, resource lists that point to URI lists, etc.

Talk Burst

A flow of PoC Speech from a PoC Client having the permission to send PoC Speech as specified in OMA PoC V1.0.

Talk Burst Control

A control mechanism that arbitrates requests from the PoC Clients for the right to send PoC Speech as specified in [P0C1_UP].

Talk Burst Control Protocol

A protocol for performing Talk Burst Control defined in [P0C1_UP].

UE PoC Box

A functional entity co-located with the PoC Client in the User Equipment where PoC Session Data and PoC Session Control Data can be stored.

User

Any entity that uses the described features through the User Equipment.

User Equipment

A hardware device that supports a PoC Client e.g., a wireless phone.

User Plane

The User Plane includes the Media and Media control signaling (e.g., Talk Burst Control Protocol) between the PoC Client and PoC Server, between the PoC Box and the PoC Server as well as between PoC Servers.

Video

Communication of live-streamed pictures without any Audio component.

3.3 Abbreviations

3GPP 3rd Generation Partnership Project

3GPP2 3rd Generation Partnership Project 2

ERDEF Enabler Requirement Definition

EREILD Enabler Release Definition
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IETF</td>
<td>Internet Engineering Task Force</td>
</tr>
<tr>
<td>IMS</td>
<td>IP Multimedia Subsystem</td>
</tr>
<tr>
<td>MBCP</td>
<td>Media Burst Control Protocol</td>
</tr>
<tr>
<td>OMA</td>
<td>Open Mobile Alliance</td>
</tr>
<tr>
<td>PoC</td>
<td>Push to talk over Cellular</td>
</tr>
<tr>
<td>RFC</td>
<td>Request For Comments (IETF specs)</td>
</tr>
<tr>
<td>RTCP</td>
<td>RTP Control Protocol</td>
</tr>
<tr>
<td>RTP</td>
<td>Real-time Transport Protocol</td>
</tr>
<tr>
<td>SDP</td>
<td>Session Description Protocol</td>
</tr>
<tr>
<td>SIP</td>
<td>Session Initiation Protocol</td>
</tr>
<tr>
<td>TBCP</td>
<td>Talk Burst Control Protocol</td>
</tr>
<tr>
<td>UDP</td>
<td>User Datagram Protocol</td>
</tr>
<tr>
<td>UE</td>
<td>User Equipment</td>
</tr>
<tr>
<td>UP</td>
<td>User Plane</td>
</tr>
<tr>
<td>URI</td>
<td>Uniform Resource Identifier</td>
</tr>
<tr>
<td>XML</td>
<td>Extensible Mark-up Language</td>
</tr>
</tbody>
</table>
4. Release Version Overview

This document outlines the Enabler Release Definition for Push to talk over Cellular (PoC) version 2.0 and the respective conformance requirements for PoC Clients and PoC Servers implementation claiming compliance as defined by Open Mobile Alliance across the specification baseline.

Push to talk over Cellular (PoC) service is a two-way form of communications that allows PoC Users to engage in immediate communication with one or more PoC Users. PoC service is similar to a “walkie-talkie” application in the way that by pressing a button a communication session with an individual PoC User or a broadcast to a group of Participants is initiated. Participants can receive Media from the sender either without any action on their part (Automatic Answer Mode), or can be notified and has to accept an invitation (Manual Answer Mode) before receiving from the sender.

In addition, the PoC service provides 2 models for PoC Session establishment: the Pre-established Session mode and the On-demand Session mode. The communication is half-duplex, meaning that one person can send Media at a time and all other Participants can receive Media. The permission for sending Media is controlled via a Media floor Control mechanism. The sending of Discrete Media can either be controlled by the Media-floor Control mechanism or not controlled.

The PoC service enabler supports the

- 1-1 PoC Session, which is the basic capability to set up communication between two PoC Users
- 1-to-many PoC Session, which is the capability to enable the setup a communication with a multiple number of other PoC Subscribers in an ad-hoc or pre-defined PoC Group manner
- Instant Personal Alert, which is the capability to inform about the inviting PoC User’s wish to communicate and the request the Invited PoC User to “call-back”.

The PoC service enabler utilizes basic inter-working with the Group Management service enabler and the Presence service enabler. Key features to these enablers are e.g. Group Lists creation and management functions, PoC Group sessions emulating conferencing on demand and integration of PoC User’s presence & availability information in the session setup process. Complementing the basic PoC service, Group Advertisement is available to inform PoC Group members about the existence and the membership of the PoC Group.

PoC Version 2.0 defines new functionalities beyond of the Push to talk over Cellular (PoC) service extending the PoC Version 1.0 PoC service with:

- Other Media Types than PoC Speech. Examples of other Media Types are: Video, images, text and files.
- A PoC Box functionality allowing the PoC Service Infrastructure to store Media Bursts and related information (e.g., date & time, Sender Identity, Participant information) on behalf of a PoC User.
- Interworking functionality allowing other External P2T Networks to interwork with PoC Service Infrastructure.
- Quality of Experience (QoE) profiles allowing the PoC Service Infrastructure to differentiate the end PoC User experience provided to individual PoC Users on a subscription bases.
- Browser based PoC Client Invocation.
- PoC Sessions with multiple PoC Groups
- Requests with Media content
- Invited parties identity information
- Full Duplex Call Follow-on Proceed
- Dispatcher functions
- Advanced Revocation Alert
- Prioritization and pre-emption
- PoC Remote Access
- Performance enhancements objectives
• Operator specified warning message
• Lawful Interception
• Interoperability, i.e interworking with earlier versions of the PoC Enabler.
• Charging
• Rejection of Session Establishment due to hidden identity of an inviting PoC User

4.1 Version 1.0 Functionality

The PoC Version 1.0 requirements are specified in [POC1_ERELD].

4.2 Version 2.0 Functionality

This section is informative.

The PoC enabler defined the following minimum mandatory functionality:

1. PoC Client and PoC Interworking Agent:
   • Registration and de-registration
   • PoC Session initiation, modification, joining and leaving, termination
   • On-demand Session establishment
   • PoC Session handling for 1-to-1 communication, Pre-arranged PoC Group, Chat PoC Group and Adhoc PoC Group communication
   • Instant Personal Alert (receiving)
   • Incoming PoC Session Barring
   • Manual Answer Mode or Automatic Answer Mode for incoming PoC Session invitations
   • Activation and deactivation of setting for service attributes (e.g. Incoming PoC Session Barring, Answer Mode Indication) towards PoC Server
   • Media transport (including support of UDP, port number handling, RTP, RTCP)
   • Media control by supporting RTCP Sender Report/Receiver Report (SR/RR) compound packets
   • PoC Session control
   • Talk Burst Control Protocol (TBCP)
   • Media Burst Control enhancements functionalities (*)
   • Timer Handling
   • Operator specified warning message functionality (*)

2. PoC Server and PoC Interworking Function:
   • Determination of PoC Server role for performing the Participating or Controlling PoC Function or both.
   • Common basic functions for Participating or Controlling PoC Function:
     - Support of PoC Session initiation, modification, joining and leaving, termination
     - PoC Session handling for 1-to-1 communication, Pre-arranged PoC Group, Chat PoC Group and Ad-hoc PoC Group communication
- Support for Media Types other than PoC Speech (e.g. voice, video, images, text, files) (*)
- PoC Sessions with Multiple PoC Groups
- Talk Burst Control Protocol (TBCP)
- Media Burst Control enhancements functionalities (*)
- Media control by supporting RTCP Sender Report/Receiver Report (SR/RR) compound packets
- On-demand Session establishment
- Invited Parties Identity Information (*)
- Capability to control QoS by differentiation in QoE profiles (*)
- Charging Functionalities (*)
- Interoperability with PoC V1.0 Servers and PoC V1.0 Clients
- Additional specific functions for PoC Server performing the Participating PoC Function
  - Manual Answer Mode handling or Automatic Answer Mode handling for PoC Session establishment
  - Setting, storing and enforcing different service attribute settings for the PoC Client
- Additional specific functions for PoC Server performing the Controlling PoC Function
  - Media transport (including support of UDP, port number handling, RTP, RTCP )
  - PoC Session control
  - Session modification for Media Parameter according to local policy and based on lowest negotiated media parameters (*)
  - Sender Identification
  - Timer Handling

PoC enabler defines the following optional functionality:

1. PoC Client and PoC Interworking Agent:
   - Group Advertisement
   - Pre-established Sessions (*)
   - Simultaneous PoC Sessions (*)
   - Media Types other than PoC Speech (e.g. voice, video, images, text, files) (*)
   - PoC Sessions with Multiple PoC Groups (*)
   - PoC Session establishment requests with Media contents (*)
   - Scheduling of RTCP packages
   - Sender Identification
   - Media Burst queuing (e.g. positioning, status) and priority
   - Media Adaptation (voice frame packetisation, voice codec adaptation)
   - Media Burst Control enhancements functionalities (*)
   - Timer Handling
   - Invited Parties Identity Information (*)
   - PoC Box functionality (*)
• Full-duplex call follow-on proceed
• PoC Dispatcher functionality (*)
• Advanced Revocation Alert (*)
• Capability to control QoS by differentiation in QoE profiles (*)
• QoE profiles prioritization and pre-emption (*)
• Inter-working Service for PoC Remote Access Users
• Browser-based PoC Client invocation (*)
• Included Media Content

2. PoC Server and PoC Interworking Function:
   • Common basic functions:
     ▪ Media control by supporting quality feedback
     ▪ User Plane adaptation
     ▪ Incoming Instant Personal Alert Barring
     ▪ Group Advertisement
     ▪ Media Transcoding
     ▪ PoC Session establishment requests with Media contents (*)
     ▪ Included Media Content
   • Additional specific functions for PoC Server performing the Participating PoC Function
     ▪ Pre-established Session (*)
     ▪ Simultaneous PoC Sessions (*)
     ▪ Media relay function
     ▪ Media transport (including support of UDP, port number handling, RTP, RTCP )
     ▪ Timer Handling
   • Additional specific functions for PoC Server performing the Controlling PoC Function
     ▪ Media Burst operation for queuing (e.g. state, position) and priority (*)
     ▪ Session modification for media capabilities according to local policy and based on lowest negotiated media parameters (*)
   • Additional specific functions for the PoC Server
     ▪ Full-duplex call follow-on proceed
     ▪ PoC Dispatcher functionality(*)
     ▪ QoE profiles prioritization and pre-emption (*)
     ▪ Operator specified warning message functionality (*)
     ▪ Browser-based PoC Client invocation (*)
   • Additional specific functions for the PoC service infrastructure
     ▪ Lawful Interception (*)
     ▪ Advanced Revocation Alert (*)
PoC Box functionality (*)
PoC Interworking service to support symmetric communication with PoC Remote Access PoC Users
PoC Interworking with External P2T Networks.

(*) These functions do not apply to the basic functionality to be supported by the PoC Interworking Function and PoC Interworking Agent

3. NW PoC Box

- PoC Session initiation, modification, joining and leaving, termination
- Talk Burst Control Protocol (TBCP)
- Talk Burst Control procedure
- Storage of PoC Session Data
- Support storage of PoC Session Control Data
- Provide a PoC Box indication when accepting an invitation to a PoC Session
- Media transport (including support of UDP, port number handling, RTP, RTCP )
- Interoperability with PoC V1.0 Clients
- Media Burst Control Protocol (MBCP)
- Media Burst Control procedures
- Retrieval of PoC Session Data (out of scope of this release of the Enabler)
- Retrieval of PoC Session Control Data (out of scope of this release of the Enabler)
- Media types other than PoC Speech (e.g. Audio, Video, images, text, files)
- Management of stored PoC Session Control Data and stored PoC Session Data (out of scope of this release of the Enabler)

4. UE PoC Box

- PoC Session initiation, modification, joining and leaving, termination
- Support Talk Burst Control Protocol (TBCP)
- Support Talk Burst Control procedures;
- Support storage of PoC Session Data;
- Support storage of PoC Session Control Data; and
- Media transport (including support of UDP, port number handling, RTP, RTCP )
- Media Burst Control Protocol (MBCP)
- Media Burst Control procedures
- Retrieval of PoC Session Data (out of scope of this release of the Enabler)
- Retrieval of PoC Session Control Data (out of scope of this release of the Enabler)
- Management of stored PoC Session Control Data and stored PoC Session Data (out of scope of this release of the Enabler)
• Media types other than PoC Speech (e.g. Audio, Video, images, text, files)
• Provide a PoC Box indication when accepting an invitation to a PoC Session
The PoC enabler defines the following external dependencies:

- **Mandatory**
  - XDM Document Management Enabler
  - Device management
  - Charging
  - SIP/IP core: IP Multimedia Subsystem (IMS) – comment: Chapter 5-Architecture (under Table 1) states that "... SHALL utilize SIP/IP core from IMS as specified in 3GPP and 3GPP2.
  - SIP/IP core: Multimedia Domain (MMD) – comment: Chapter 5-Architecture (under Table 1) states that "... SHALL utilize SIP/IP core from IMS as specified in 3GPP and 3GPP2.

- **Optional**
  - Presence Service Enabler
5. Document Listing for PoC V2.0

This section is normative.

The PoC Enabler comprises the following specifications:

<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>[POC2_RD]</td>
<td>OMA-RD-PoC-V2_0-20080421-C</td>
<td>Requirement Document for PoC V2.0 Enabler. Defines the requirements for the Push to talk over Cellular service capturing the overall service description, primarily from the service subscriber's and PoC User's points of view. It is applicable to network operators, service providers and terminal and infrastructure manufacturers.</td>
</tr>
<tr>
<td>[POC2_AD]</td>
<td>OMA-AD-PoC-V2_0-20080507-C</td>
<td>Architecture Document for PoC V2.0 Enabler. Defines the overall architecture of PoC V2.0.</td>
</tr>
<tr>
<td>[POC2_CP]</td>
<td>OMA-TS-PoC_ControlPlane-V2_0-20080507-C</td>
<td>Defines the PoC Control Plane signaling procedures of the PoC Client and PoC Server for Push to talk over Cellular (PoC) service including example detailed signaling flows for the reference points POC-1, POC-2 and IP-1.</td>
</tr>
<tr>
<td>[POC2_Document_Management]</td>
<td>OMA-TS-PoC_Document_Management-V2_0-20080226-C</td>
<td>Defines the PoC Enabler specific usage of XML documents defined by the XDM Enabler and specifies the PoC Enabler deviations and extensions to these documents.</td>
</tr>
<tr>
<td>[POC2_INV]</td>
<td>OMA-TS-POC_Invocation_Descriptor-V2_0-20071211-C</td>
<td>Defines the browser-based PoC Client invocation.</td>
</tr>
<tr>
<td>[POC2_IWF]</td>
<td>OMA-TS-PoC_Interworking_Service-V2_0-20080226-C</td>
<td>Defines the PoC Interworking Service through endorsement for PoC V2.0 Specifications [POC2_CP], [POC2_UP] and [POC2_Document_Management].</td>
</tr>
<tr>
<td>[POC2_SD]</td>
<td>OMA-TS-PoC_System_Description-V2_0-20080507-C</td>
<td>Defines the system description of PoC V2.0 including detailed descriptions of technologies and their uses.</td>
</tr>
<tr>
<td>[POC2_UP]</td>
<td>OMA-TS-PoC_UserPlane-V2_0-20080507-C</td>
<td>Defines the User Plane procedures for the Push to talk over Cellular (PoC) service over the POC-3 and the POC-4 reference points as defined in the reference [POC2_AD]. When necessary, inter-working between the Control Plane [POC2_CP] and User Plane is described. If necessary, requirements on the implementation of SIP / IP Core are included.</td>
</tr>
<tr>
<td>Doc Ref</td>
<td>Permanent Document Reference</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------</td>
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</table>
| [POC1_GA] | OMA-SUP-XSD_poc_group_advertisement-V1_0_1-20061128-A | XML schema for Group Advertisement  
Working file in XML Schema directory: file: poc_group_advertisement-v1_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC1_LST] | OMA-SUP-XSD_poc_listService-V1_0_1-20061128-A | XML schema for PoC Groups  
Working file in XML Schema directory: file: poc_listService-v1_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC1_USG] | OMA-SUP-XSD_poc_pocusage-V1_0_2-20070905-A | XML schema for PoC-specific URI List usage  
Working file in XML Schema directory: file: poc_pocusage-v1_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC2_AC] | OMA-SUP-AC_ap0006_POC-V2_0-20080507-C | Description of the Application Characteristic for PoC V2.0. This aligns with the Provisioning Spec.  
Working file in Application Characteristics directory: file: ac_ap0006_poc-v2_0.txt  
path: http://www.openmobilealliance.org/tech/omna/ac |
| [POC2_DPR] | OMA-SUP-XSD_poc_detProgressRep-V2_0-20071002-C | XML schema for PoCv2.0 detailed Discrete Media Transfer Progress Report  
file: poc_detProgressRep-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC2_FDCFO] | OMA-SUP-XSD_poc_FDCFO-V2_0-20071002-C | XML schema for Full Duplex Call Follow On Proceed postd Element  
Working file in XML Schema directory: file: poc_FDCFO-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
file: poc_finalReport-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC2_GAD] | OMA-SUP-XSD_poc_dispatchInd-V2_0-20071002-C | XML schema for Group Advertisement Dispatch Attribute  
Working file in XML Schema directory: file: poc_dispatchInd-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC2_ID] | OMA-SUP-XSD_poc_sessionInvocationDescriptor-V2_0-20071002-C | XML schema for PoCv2.0 Invocation descriptor  
Working file in XML Schema directory: file: poc_sessionInvocationDescriptor-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |
| [POC2_OPR] | OMA-SUP-XSD_poc_optProgressRep-V2_0-20071002-C | XML schema for PoCv2.0 optimized Discrete Media Transfer Progress Report  
file: poc_optProgressRep-v2_0.xsd  
path: http://www.openmobilealliance.org/tech/profiles/ |

Note: The following list contains all supporting files needed for the PoC V2.0 release. It contains therefore supporting files from PoC V1.0.a and specific PoC V2.0.

Maintenance Note: Modifications to earlier releases have to be maintained also backwards to the earlier enabler release packages.
<table>
<thead>
<tr>
<th>Doc Ref</th>
<th>Permanent Document Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[POC2_RUL]</td>
<td>OMA-SUP-XSD_poc_poc2_0Rules-V2_0-20071002-C</td>
<td>XML schema for PoC V2.0 extensions of PoC User access policy&lt;br&gt;Working file in XML Schema directory: file: poc_poc2_0Rules-v2_0.xsd&lt;br&gt;path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
</tr>
<tr>
<td>[POC2_SET]</td>
<td>OMA-SUP-XSD_poc_poc2_0Settings-V2_0-20071002-C</td>
<td>XML schema for PoCv2.0 Service Settings&lt;br&gt;Working file in XML Schema directory: file: poc_poc2_0Settings-v2_0.xsd&lt;br&gt;path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a></td>
</tr>
</tbody>
</table>

Table 1: Listing of Documents in PoC V2.0 Enabler
6. Conformance Requirements Notation Details

This section is informative.

The ERDEF tables are defined in the following chapters for:

- PoC Client,
- PoC Interworking Service Agent,
- PoC Server performing the Participating PoC Function,
- PoC Server performing the Controlling PoC Function,
- PoC Interworking Service Function,
- PoC Invocation Descriptor,
- UE PoC Box,
- NW PoC Box.

The tables in following chapters use the following notation:

**Item:** Entry in this column MUST be a valid ScrItem according to [OMA_SCR_Rules].

**Feature/Application:** Entry in this column SHOULD be a short descriptive label to the Item in question.

**Requirement:** Expression in the column MUST be a valid TerminalExpression according to [OMA_SCR_Rules] and it MUST accurately reflect the architectural requirement of the Item in question.

Dependency grammar used in this section is specified in [OMA_SCR_Rules]:

\[
\text{TerminalExpression} = \text{ScrReference} \\
/ \text{NOT TerminalExpression} \\
/ \text{TerminalExpression LogicalOperator TerminalExpression} \\
/ " ( TerminalExpression ) " \\
\text{ScrReference} = \text{ScrItem} \\
/ \text{ScrGroup} \\
\text{ScrItem} = \text{SpecScrName } "-" \text{ GroupType } "-" \text{ DeviceType } "-" \text{ NumericId } "-" \text{ Status} \\
/ \text{SpecScrName } "-" \text{ DeviceType } "-" \text{ NumericId } "-" \text{ Status} \\
\text{ScrGroup} = \text{SpecScrName } "-" \text{ FeatureType} \\
/ \text{SpecScrName } "-" \text{ GroupType } "-" \text{ DeviceType } "-" \text{ FeatureType} \\
\text{SpecScrName} = 1*\text{Character}; \\
\text{GroupType} = 1*\text{Character}; \\
\text{DeviceType} = "C" / "S"; C – client, S – server \\
\text{NumericId} = \text{Number Number Number} \\
\text{Status} = "M" / "O"; M - Mandatory, O - Optional \\
\text{LogicalOperator} = "AND" / "OR"; AND has higher precedence than OR and OR is inclusive \\
\text{FeatureType} = "MCF" / "OCF" / "MSF" / "OSF"; \\
\text{Character} = %x41-5A;
\]
7. ERDEF for PoC - Client Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-POCV1-C-001-M</td>
<td>PoC Client Control Plane</td>
<td>PoCCPspec_V1: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV1-C-002-M</td>
<td>PoC Client User Plane</td>
<td>PoC_UserPlaneV1: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV1-C-003-O</td>
<td>PoC Client Control Plane</td>
<td>PoCCPspec_V1: OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV1-C-004-O</td>
<td>PoC Client User Plane</td>
<td>PoC_UserPlaneV1: OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-005-M</td>
<td>PoC Client Control Plane</td>
<td>POC_CP_V2: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-006-M</td>
<td>PoC Client User Plane</td>
<td>POC_UP_V2: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-007-O</td>
<td>PoC Client Control Plane</td>
<td>POC_CP_V2: OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-008-O</td>
<td>PoC Client User Plane</td>
<td>POC_UP_V2: OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-009-O</td>
<td>PoC Interworking_Agent</td>
<td>POC_IWTS_V2: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-010-O</td>
<td>PoC Interworking_Agent</td>
<td>POC_IWTS_V2: OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-011-O</td>
<td>PoC Service Invocation Descriptor</td>
<td>POC_ID-UE: MCF</td>
</tr>
</tbody>
</table>

NOTE 1: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix A) of [POC2_CP] shall be adhered to.

NOTE 2: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix A) of [POC2_UP] shall be adhered to.

NOTE 3: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR of [POC2_IWF] shall be adhered to.

Table 2: ERDEF for PoC Client-side Requirements
8. ERDEF for PoC - Server Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMA-ERDEF-POCV1-S-005-O</td>
<td>PoC Server: Control Plane: Participating PoC Function</td>
<td>PoCCPSpec: OSF See NOTE 1</td>
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<tr>
<td>OMA-ERDEF-POCV1-S-006-O</td>
<td>PoC Server: Control Plane: Controlling PoC Function</td>
<td>PoCCPSpec: OSF See NOTE 1</td>
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<tr>
<td>OMA-ERDEF-POCV2-S-009-M</td>
<td>PoC Server Control Plane</td>
<td>POC_CP_V2: MCF</td>
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<tr>
<td>OMA-ERDEF-POCV2-S-010-M</td>
<td>PoC Server User Plane</td>
<td>POC_UP_V2: MCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-S-011-O</td>
<td>PoC Server Control Plane</td>
<td>POC_CP_V2: OCF See NOTE 1</td>
</tr>
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<td>OMA-ERDEF-POCV2-S-012-O</td>
<td>PoC Server User Plane</td>
<td>POC_UP_V2: OCF See NOTE 2</td>
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<td>OMA-ERDEF-POCV2-S-013-O</td>
<td>PoC Interworking Function</td>
<td>PoC_IW_TS_V2: MSF</td>
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<tr>
<td>OMA-ERDEF-POCV2-S-014-O</td>
<td>PoC Interworking Function</td>
<td>PoC_IW_TS_V2: OSF See NOTE 3</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-S-015-O</td>
<td>PoC Server: Invocation Descriptor</td>
<td>PoC-ID-DOC: OSF</td>
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</table>

NOTE 1: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix F) of [POC2_CP] shall be adhered to.

NOTE 2: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix A) of [POC2_UP] shall be adhered to.

NOTE 3: Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR of [POC2_IWF] shall be adhered to.

Table 3: ERDEF for PoC Server-side Requirements
## 9. ERDEF for PoC - PoC Box Requirements

This section is normative.

<table>
<thead>
<tr>
<th>Item</th>
<th>Feature / Application</th>
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</thead>
<tbody>
<tr>
<td>OMA-ERDEF-POCV2-C-050-O</td>
<td>PoC Box: Control Plane: UE PoC Box</td>
<td>POC_CP_V2: POC_CP-PBO:OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-C-051-O</td>
<td>PoC Box: User Plane: UE PoC Box</td>
<td>POC_UP_V2: POC_UP-PBO:OCF</td>
</tr>
<tr>
<td>OMA-ERDEF-POCV2-S-050-O</td>
<td>PoC Box: Control Plane: NW PoC Box</td>
<td>POC_CP_V2: POC_CP-PBO:OSF</td>
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<tr>
<td>OMA-ERDEF-POCV2-S-051-O</td>
<td>PoC Box: User Plane: NW PoC Box</td>
<td>POC_UP_V2: POC_UP-PBO:OSF</td>
</tr>
</tbody>
</table>

**NOTE 1:** Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix F) of [POC2_CP] shall be adhered to.

**NOTE 2:** Any, All, or None of the optional requirements may be implemented. If any are implemented, then the dependencies implied in the SCR (appendix A) of [POC2_UP] shall be adhered to.

Table 4: ERDEF for PoC Box Requirements
## Appendix A. Change History

### A.1 Approved Version History

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<th>Reference</th>
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<td>n/a</td>
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### A.2 Draft/Candidate Version 2.0 History

<table>
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<tr>
<td>Draft versions</td>
<td>09 Dec 2005</td>
<td>n/a</td>
<td>ERELD PoC V2.0 baseline document</td>
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|                     |       |          | Draft version for PoC V2.0 as basis for input in the new ERELD template, template approved ref# OMA-OP-2005-0081-
<p>|                     |       |          | CR_ERELDtemplateUpdate |
|                     | 15 Feb 2006 | n/a      | Update date and upload to portal |
|                     | 10 Aug 2006 | n/a      | Include CR: OMA-POC-PoCv2-2006-0149R01 |
|                     | 01 Dec 2006 | 6, 7, 8, 9, 10 | Include CRs: OMA-POC-PoCv2-2006-1022R01 OMA-POC-PoCv2-2006-1133R01 |
|                     | 21 Dec 2006 | 6         | Updated list of specs and sup files |
|                     | 24 Jan 2007 | All      | Applying the editorial comments from PoC V2.0 CONRR |
|                     | 23 Feb 2007 | 6         | Section 6 updated with agreed new document names for SUP files (0019R01 modified: underscores instead of points – agreed following mailing list review 2007-02-23). |
|                     | 09 May 2007 | All      | Inclusion of CRs: OMA-POC-PoCv2-2007-0312R01 OMA-POC-PoCv2-2007-0516R01 OMA-POC-PoCv2-2007-0541 OMA-POC-PoCv2-2007-0639 OMA-POC-PoCv2-2007-0676R01 Section 6 updated with the new SUP files (references to be added). Editorial changes to References section. Format for references has been aligned throughout the document. |
|                     | 08 Aug 2007 | 2.1, 7   | Inclusion of CR: OMA-POC-PoCv2-2007-1034 |
|                     | 24 Aug 2007 | 6, 2, 7, 10, 11 | Editorial changes. |</p>
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<td>2.1, 7</td>
<td>Replacing OMA-SUP-XSD_poc_pocusage with the latest version: OMA-SUP-XSD_poc_pocusage-V1.0.2-20070905-A</td>
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<td>02 Oct 2007</td>
<td>All</td>
<td>Status changed to Candidate by TP</td>
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<td>TP ref # OMA-TP-2007-0343R01-INV_POC_V2.0_ERP_for_Candidate_Approval</td>
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<td>Section 7 of ERELD updated to reflect this.</td>
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