Technical Specification Group Services and System Aspects
Meeting #28, 06 - 08 June 2005,
Quebec, Canada

TSGS#28(05)0343

Source: **SA WG2**

Title: **CR to TR 23.979: Correction of OMA PoC references (Rel-6)**

Document for: **Approval**

Agenda Item: **7.2.3**

SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers Current	SA1 Doc	WI
SP-050343	23.979	0004	1	Rel-6	F	Correction of OMA PoC references	6.1.0	S2-050892	POC

3GPP TSG-SA WG2 Meeting #45 **S2-050892**
Beijing, China, 4th – 8th April 2005

CR-Form-v7.1

CHANGE REQUEST

⌘ **23.979** **CR** **0004** ⌘ **rev** **1** ⌘ Current version: **6.1.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of OMA PoC references
Source:	⌘	SA WG2
Work item code:	⌘	POC
Date:	⌘	29/03/2005
Category:	⌘	**F**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*
Rel-7 *(Release 7)*

Reason for change:	⌘	Currently TR 23.979 contains obsolete dated references to draft version of the OMA POC RD and AD. The OMA POC 1.0 specifications have now been approved and are significantly more advanced and stable than the obsolete work in progress draft versions specified in the references of TR 23.979. Also most of the Abbreviations used in TR 23.979 are not defined in subclause 3.2
Summary of change:	⌘	Replaces dated references to out of data OMA PoC specifications with non-specific references, corrects a reference to the OMA-POC-RD and adds the missing abbreviations to subclause 3.2.
Consequences if not approved:	⌘	Confusion as to whether the TR 23.979 is based on the approved OMA PoC 1.0 specifications or these obsolete work in progress versions and leading implementors to use obsolete reference versions possibly leading to interoperability problems in implementations

Clauses affected:	⌘	2, 3.2, 4.2			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 41.001: "GSM Release specifications".

[2] 3GPP TS 21.905: "Vocabulary for 3GPP Specifications".

[3] 3GPP TS 23.002: "Network architecture".

[4] 3GPP TS 23.228: "IP Multimedia (IM) Subsystem; Stage 2.

[5] 3GPP TS 23.141 "Presence Service; Stage 2".

[6] OMA-AD-PoC-V1.0 ~~(October 2004)~~, OMA PoC Specification, Architecture Document.

[7] OMA-RD-PoC-V1_0 ~~(June 2004)~~, OMA PoC Specification, Requirements Document.

[8] 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol; Stage 3".

[9] 3GPP TS 23.207: "End-to-end Quality of Service (QoS) concept and architecture".

[10] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".

[11] 3GPP TS 26.071: "AMR speech Codec; General description".

[12] RFC 3267 (June 2002): "Real-Time Transport Protocol (RTP) Payload Format and File Storage Format for the Adaptive Multi-Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) Audio Codecs".

[13] 3GPP TS 23.221: "Architectural requirements".

[14] RFC 3320 (January 2003): "Signaling Compression (SigComp)".

[15] 3GPP TS 24.228 "Signalling flows for the IP multimedia call control based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

[16] 3GPP TS 24.229 "IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3".

3.2 Abbreviations

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

AD	Architecture Document
APN	Access Point Name
AMR	Adaptive Multi-Rate
AS	Application Server
BER	Bit Error Rate
CCF	Charging Collection Function

CN	Core Network
CS	Circuit Switched
CSCF	Call Session Control Function
DL	DownLink
DTM	Dual Transfer Mode
ECF	Event Charging Function
~~PoC~~	~~Push to talk over Cellular~~
FBC	Flow Based Charging
GERAN	GSM EDGE Radio Access Network
GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
I-CSCF	Interrogating-CSCF
IE	Information Element
IM	IP Multimedia
IMS	IP Multimedia Subsystem
IP	Internet Protocol
ISC	IP multimedia Service Control
NAS	Non-Access Stratum
OCS	Online Charging System
OMA	Open Mobile Alliance
P-CSCF	Proxy-CSCF
PCO	Protocol Configuration Options
PDP	Packet Data Protocol
PoC	Push to talk over Cellular
PS	Packet Switched
PSI	Public Service Identity
QoS	Quality of Service
RAB	Radio Access Bearer
RB	Radio Bearer
RD	Requirements Document
RL	Radio Link
RLC	Radio Link Control
RRC	Radio Resource Control
RTP	Real-Time Transport Protocol
RtS	'right-to-speak' indication
S-CSCF	Serving-CSCF
SBLP	Service Based Local Policy
SDP	Session Description Protocol
SDU	Session Data Unit
SGSN	Serving GPRS Support Node
SIP	Session Initiation Protocol
SMS	State Memory Size
TBF	Temporary Block Flow
TCP	Transport Control Protocol
UDP	User Datagram Protocol
UE	User Equipment
UL	UpLink
UMTS	Universal Mobile Telecommunications System
UTRAN	UMTS Terrestrial Radio Access Network
XDMS	XML Document Management Server

4.2 PoC specific requirements relevant to 3GPP

In order for 3GPP system to support services like PoC, certain PoC requirements will require additional analysis within 3GPP in order to determine that all necessary architectural support is in place via capabilities provided by the GERAN/UTRAN, GPRS and IMS.

This clause captures the possible relevant requirements for the purposes of additional evaluation to ensure proper support is in place within 3GPP infrastructure:

- The PoC service entity may provide the originating user with an early indication to start to speak even before invited users accept the call.
- If the above condition is applied then the initiating PoC subscriber shall receive an indication if no participants receive the talk burst.
- The originating subscriber receives 'right-to-speak' (RtS) indication after certain time depending on the answer mode setting of the target PoC subscriber.
- Depending on the setting by the PoC subscriber, the right-to-speak indication can be given to the originating PoC subscriber before the target PoC subscriber is reached or at least one of the target PoC subscribers has to accept the PoC session before the 'right-to-speak' indication is given to the originating PoC subscriber.
- During the PoC session, the PoC service entity provides 'right-to-speak' indication to a PoC subscriber requesting to speak.
- In case of a chat group session, the communication between chat group participants shall be possible at the time the PoC chat group session is established, that is at least one participant has joined the chat session.
- The timing requirements for capabilities such as RtS shall be taken into account within 3GPP as specified in OMA PoC RD [~~6~~7].
- Charging architecture requirements shall be taken into account as specified in OMA PoC AD [6].
- The user equipment, depending on its capabilities, shall support notification of incoming CS call during an ongoing PoC session as well as a notification of an incoming PoC session set up during an ongoing CS call.