

**3GPP TSG-SA Meeting #26
13th – 16th December 2004. Athens, Greece.**

TSGS#26(04)0747

Source: TSG SA WG2
Title: WID for Combining CS and IMS services & Capability Detection mechanism” Building Block
Agenda item: 7.2.3
Document for: APPROVAL

The draft TR 23.899 is becoming more than 80% stable seen from the perspective of Phase 1 and technical specification work can start.

Phase 1 will address capabilities that are already supported by the current set of specifications or require limited standardization needs. The Phase 1 capabilities are Radio Capability Exchange; SIP OPTIONS based capability exchange, SIP INVITE based capability exchange, adding IMS media component towards an ongoing call and adding CS speech call towards an ongoing IMS session.

It is proposed to elaborate on the stage 2 (i.e. new TR 23.9de) and appropriate CRs to current specs.

It is proposed to create a new WID reflecting the work for CSI Phase 1. The Phase 2 specs shall be continued within the current feasibility WID.

Work Item Description

Title

Specification of Combining CS and IMS services & Capability Detection mechanism.

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

Feasibility Study on IMS services using CS bearers (SP-040479)

3 Justification

The current TR 23.899 has been progressed substantially so that the specification of combining CS and IMS services can be initiated. The TR 23.899 concludes a recommended architecture solution to be specified to address the combinational requirements including the identified need for radio/terminal capability exchange.

The specification of CSI Phase 1 is needed to address the urgent market needs to make IMS services available to the end-users. This specification will enable fast deployment scenarios for IMS services that are build on existing service such as CS calls and IMS sessions.

4 Objective

The objective is to address those capabilities that are already supported by the current set of specifications or require limited standardization needs. The targeted capabilities are Radio Capability Exchange, SIP based capability exchange, adding IMS media component towards an ongoing call and adding CS speech call towards an ongoing IMS session. The standardization activity will focus particularly on end-to-end exchange of terminal capabilities. It also comprises standardisation of exchange of E.164 numbers in SIP, if it can be accomplished in time.

The service shall include the functionality to detect the radio capabilities that the terminal is situated in. This radio capability detection will ensure that the service is only invoked when the terminal is within the right radio environment, e.g. DTM, multiRAB.

The service shall include the functionality to detect the remote terminal capabilities. The retrieved terminal capabilities shall be able to be cached and therefore synchronization aspects shall be specified.

The service shall add IMS sessions to ongoing CS calls and CS speech towards ongoing IMS sessions. However, both parties shall be able to initiate the additional media.

When the service is initiated by an IMS session then the service shall be able to retrieve the E.164 number of the calling/called party to add an additional CS speech call.

It is assumed that a peer Work Item will exist for the stage 3 specification work of Combinational Services.

5 Service Aspects

Impacts of Supplementary Services during a multimedia session should be investigated.

6 MMI-Aspects

None presently identified

7 Charging Aspects

The possibility to charge the service in an offline mode differently than when each media is charged separately shall be specified.

8 Security Aspects

The restriction and disclosure of terminal capabilities should be investigated.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X		X	
No			X		
Don't know	X				X

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 23.9de		SA2		SA#27	SA#28	Detailed description of combining CS and IMS services and Radio/Terminal capability detection mechanisms
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
23.228				TS SA#28		Transfer of E.164, Terminal Capability Detection
23.221				TS SA#28		Radio Capability Exchange
		Others t.b.d.				

11 Work item rapporteur(s)

Yun Chao Hu, Ericsson

12 Work item leadership

SA2

13 Supporting Companies

Ericsson, Huawei, Nortel Networks, Orange, TeliaSonera, TIM, Vodafone

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

WID on specification of IMS with Real Time service deployment

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)

form change history:
v1.11.0: includes those changes from v1.8.0 agreed at SP-25.
v1.10.0: full circle
v1.9.0: a clean sheet
v1.8.0: includes comments from SA#24
v1.7.0: includes comments from RAN, CN and T #24; also includes "early implementation" data
v1.6.0: includes comments made during review period prior to TSGs#24
v1.5.0: includes comments made at TSGs#23 (Phoenix)
v1.4.0: offered to SA#23 for approval
v1.3.0: offered to CN#23, RAN#23 and T#23 for comments
DRAFT4 v1.3.0: 2004-03-09: Incorporation of comments from Leaders list
DRAFT3 v1.3.0: 2004-02-19: Incorporation of comments from MCC members
DRAFT2 v1.3.0: 2004-01-29: Complete redraft:
v1.2.0: 2002-07-04: "USIM" box changed to "UICC apps"
2003-05-28: spelling of "rapporteur" corrected
2002-07-04: "USIM" box changed to "UICC apps"