

TSG-SA WG1 #27
Capetown, South Africa, 17th to 21st January 2005

S1-050241
Agenda Item:

Title: Update of WID for Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism

Source: SA1 SWG XIX

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Work Item Description

Title

Specification of Combining CS and IMS services & Capability Detection and Exchange 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 elaborate on the stage 1 [\(based on the details identified in TR 22.979\)](#), stage 2 and appropriate CRs to current specifications addressing the details of those CSI phase 1 capabilities as identified in TR 23.899 that are already supported by the current set of specifications or require limited standardization needs. These CSI phase 1 capabilities are:

- Radio capability exchange;
- SIP based terminal capability exchange;
- E.164 number exchange in SIP (if it can be accomplished in time)
- Adding IMS session to an ongoing CS call;
- Adding CS speech call to an ongoing IMS session.

The capabilities shall support interoperability between different operator networks and roaming.

It is assumed that a Building Block Work Item will exist for the stage-3 specification work.

5 Service Aspects

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

6 MMI-Aspects

None presently identified

7 Charging Aspects

Inter-operator accounting and roaming charging aspects will be considered for combined CS calls and IMS sessions.

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	2 nd ary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TS 22.xxx279		SA1		SA#28	SA#28	Service requirements for combining CS and IMS services
TS 23.xxx279		SA2		SA#27	SA#28	Detailed description of combining CS and IMS services and Radio/Terminal capability detection and exchange mechanisms
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
22.228				TS SA#28	Exchange of service capabilities between the UEs	
22.115				TS SA#28	Inter-operator accounting and roaming charging aspects will be considered for combined CS calls and IMS sessions	
23.228				TS SA#28	Terminal Capability Detection and Exchange	
23.221				TS SA#28	Radio Capability Exchange	
		Others t.b.d.				

11 Work item rapporteur(s)

Robert Frank, TeliaSonera

12 Work item leadership

SA1

13 Supporting Companies

[3](#), Ericsson, Huawei, Nortel Networks, Orange, TeliaSonera, TIM, Vodafone, Siemens, Nokia, NEC

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

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

Stage 3 Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism.

14b The WI is a Building Block: parent Feature

14c The WI is a Work Task: parent 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"