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

Tdoc SP-040881

Source:	**Ericsson, Nokia, Nortel Networks, Siemens, TIM, Vodafone**
Title:	**WID for Combining CS and IMS services & Capability Detection and Exchange mechanism**
Agenda item:	**7.2.3**
Document for:	**INFORMATION / APPROVAL**

The Tdocs **SP-040742** and **SP-040747** contains proposed updates to the SA1 and SA2 WIDs on Combinational Services. Although the documents are addressed to the same feature, the content of these WIDs differ in respect to the level of detail. The intention of this document is to harmonize the SA1 and SA2 WID by combining them into one single WID addressing a feature for Combining CS speech and IMS services as a Feature.

It is proposed that the WID in this document replaces both the proposals in SP-040742 and SP-040747.

The SA 1 work on this topic is documented in TR 22.979 which is submitted for approval by SA #26 in SP SP-040740.

The SA 2 work so far on this topic is documented in TR23.899, which is submitted for information to SA #26 in SP-04748. 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.

From analysis of the current SA 1 and SA 2 TRs, it is proposed to elaborate on the stage 2 (i.e. new TR 23.9de) and appropriate CRs to current specs. It is not believed that there is any need for dedicated new stage 1 or stage 3 TRs/TSs for this feature.

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

An open question is which WG should lead the work (SA 1 or SA 2).

Work Item Description

Title

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

1   3GPP Work Area

	Radio Access
	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 and stage 2 (i.e. new TR 23.9de) 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 rsp. WG	2ndary rsp. 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 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)

TBD

12 Work item leadership
TBD (SA1 or SA2)

13 Supporting Companies

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

14 Classification of the WI (if known)

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