

**Source:** TSG CN WG1  
**Title:** WI for Stage 3 Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism  
**Agenda item:** 9.22  
**Document for:** APPROVAL

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SA1 and SA2 have approved two new WIDs that addresses the standardization of Combinational Services, which addresses two main capabilities:

- Combining CS and IMS services
- Terminal/Radio Capability detection

The current scope of the standardization of “Combinational Services” is intended to have limited standardization impacts but will require some stage 3 standardization. This WID addresses this need for stage 3 specification of “Combinational Services”.

The WID has been approved by CN1 in N1-050381 and forwarded to CN-27 for approval.

## Work Item Description

### **Title**

Stage 3 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, unique ID 31054.  
Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism (unique ID 31060)

### **3 Justification**

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 appropriate CRs to existing stage 3 specifications of those CSI Phase 1 capabilities as identified in TS 23.cde, and those that are already supported by the current set of specifications or require limited standardization needs. The CSI Phase 1 capabilities are:

- Radio capability exchange;
- SIP based terminal capability exchange
- E.164 number exchange in SIP;
- Adding IMS session to an ongoing CS call;
- Adding CS speech call to an ongoing IMS session.

SIP and SDP, including any extensions, should be used in accordance with the IETF view of the architecture of the protocols and the means to extend the protocols.

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

### **5 Service Aspects**

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

### **6 MMI-Aspects**

None presently identified

### **7 Charging Aspects**

To be identified.

**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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
24.229				TSG CN#29	Transfer of E.164, Terminal Capability Detection and Exchange,	
24.008				TSG CN#29	Radio Capability Exchange	
		Others t.b.d.				

**11 Work item rapporteur(s)**

Peter Dawes (Vodafone)

**12 Work item leadership**

CN1

**13 Supporting Companies**

Ericsson, NEC, Nokia, Nortel Networks, Siemens AG, 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

Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism (uniue ID **31060**)

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"