

Source: TSG CT WG1
Title: Revision of WID for Stage 3 Specification of Combining CS and IMS services & Capability Detection and Exchange mechanism.
Agenda item: 6.1.1
Document for: APPROVAL

INTRODUCTION

This WID replaces the current approved WID in NP-050630

SA1 and SA2 have approved two new WIDs that address the standardization of the release 7 feature “Combinational Services”, which addresses two main capabilities:

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

SA1 and SA2 have also identified one new TS each that will describe this work on stage 1 and stage 2 level.

The current scope of the standardization of “Combinational Services” will require some stage 3 standardization. This revised version of the WID addresses the need for stage 3 TR.

In order to create an inter-operable feature, it is a concern that only referencing the generic tools given by 3GPP TS 24.008 (RIL 3) and 3GPP TS 24.229 (SIP/SDP) can give a too broad scope and too many options. Due to this, it is proposed that the stage 3 TR is created with the scope to provide the stage 3 details needed to ‘glue’ the two capabilities together that combine CS and IMS services for using them in parallel between the same two users. Possible generic additions are proposed specified in 3GPP TS 24.008 (RIL 3) and 3GPP TS 24.229 (SIP/SDP).

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

- Combinational Services, stage 1 (unique ID 31064)
- Combinational Services, stage 2 (unique ID 32084)

3 Justification

The 3GPP 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.

- SA1 describes the service requirements in 3GPP TS 22.279.
- SA2 describes the architectural requirements in 3GPP TS 23.279.

4 Objective

The objective is to create a new stage 3 TR to specify the CSI Phase 1 capabilities and possibly relevant stage 3 example flows as identified in 3GPP TS 22.279 and 3GPP TS 23.279. 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.

The new TR can also act as a temporary placeholder for material that is not stable for inclusion in 3GPP TS 24.008 and 3GPP TS 24.229.

Generic capabilities are proposed be described in 3GPP TS 24.008 (RIL 3) and 3GPP TS 24.229 (SIP/SDP)

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/technical reports						
Spec No.	Title	Prime resp. WG	2ndary resp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 24.979		CT1		TSG CT#29	TSG CT#30	Description of how to transfer CSI phase 1 additions by the generic mechanisms available by 24.008 and 24.229
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
24.229				TSG CT#29	Additions of generic SIP/SDP additions	
24.008				TSG CT#29	Addition of generic RIL 3 additions	
		Others t.b.d.				

11 Work item rapporteur(s)

Peter Dawes (Vodafone)

12 Work item leadership

CT1

13 Supporting Companies

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

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

Combinational Services (unique ID 31063)

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

(one Work Item identified as a building block)

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SA1 and SA2 have approved two new WIDs that address the standardization of the release 7 feature “Combinational Services”, which addresses two main capabilities:

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

SA1 and SA2 have also identified one new TS each that will describe this work on stage 1 and stage 2 level.

The current scope of the standardization of “Combinational Services” will require some stage 3 standardization. This revised version of the WID addresses the need for stage 3 TR.

In order to create an inter-operable feature, it is a concern that only referencing the generic tools given by 3GPP TS 24.008 (RIL 3) and 3GPP TS 24.229 (SIP/SDP) can give a too broad scope and too many options. Due to this, it is proposed that the stage 3 TR is created with the scope to provide the stage 3 details needed to ‘glue’ the two capabilities together that combine CS and IMS services for using them in parallel between the same two users. Possible generic additions are proposed specified in 3GPP TS 24.008 (RIL 3) and 3GPP TS 24.229 (SIP/SDP).

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)~~

- [Combinational Services, stage 1 \(unique ID 31064\)](#)
- [Combinational Services, stage 2 \(unique ID 32084\)](#)

3 Justification

The [3GPP](#) 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.

- [SA1 describes the service requirements in 3GPP TS 22.279.](#)
- [SA2 describes the architectural requirements in 3GPP TS 23.279.](#)

4 Objective

The objective is to ~~create a new stage 3 TR to specify the elaborate on the appropriate CRs to existing stage 3 specifications of those~~ [CSI Phase 1 capabilities and possibly relevant stage 3 example flows](#) as identified in [3GPP TS 22.279 and 3GPP TS 23.279](#) ~~ede, 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.

[The new TR can also act as a temporary placeholder for material that is not stable for inclusion in 3GPP TS 24.008 and 3GPP TS 24.229.](#)

[Generic capabilities are proposed be described in 3GPP TS 24.008 \(RIL 3\) and 3GPP TS 24.229 \(SIP/SDP\)](#)

5 Service Aspects

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

6 MMI-Aspects

| None presently identified.

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TR 24.979 ^{abe}		CT1		TSG CT#29	TSG CT#30	Description of how to transfer CSI phase 1 additions by the generic mechanisms available by 24.008 and 24.229
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
24.229				TSG CT#29	Additions of generic SIP/SDP additions Transfer of E.164, Terminal Capability Detection and Exchange,	
24.008				TSG CT#29	Addition of generic RIL 3 additions Radio Capability Exchange	
		Others t.b.d.				

11 Work item rapporteur(s)

Peter Dawes (Vodafone)

12 Work item leadership

| [CNT1](#)

13 Supporting Companies

| Ericsson, NEC, Nokia, Nortel Networks, Siemens AG, Vodafone, [Huawei](#)

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~~ [Combinational Services](#) (unique ID **310630**)

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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"