

Source: TSG SA WG2 (S2-034297)

Title: Updated WID on “**Bandwidth and Resource savings and Speech enhancements for CS networks.**”

Agenda Item: 7.2.3

Title: ~~Proposed~~ Updated WID on “Bandwidth and Resource savings and Speech enhancements for CS networks.”

Source: ~~Drafting group~~ T-Mobile

Work Item Description

Title **Bandwidth and Resource savings and Speech enhancements for CS networks.**

1 **3GPP Work Area**

	Radio Access
x	Core Network
	Services

2 **Linked work items**

none

3 **Justification**

There is a requirement for a standards based solution to reduce bandwidth and transcoder requirements in calls which pass between Media Gateways across the Nb interface in the CS domain for packet networks which are not pure 3G implementations and provide possible enhancements to an overall network solution to improve speech quality.

4 **Objective**

The objective of this work item is to identify the full set of requirements for bandwidth and resource savings and improved speech quality, with specific consideration to networks supporting A/Gb mode and the BICN. The different architectural solutions to meet these requirements will be assessed.

Consideration shall be made to existing architectures and solutions to provide harmony between 2G nodes, UMTS nodes and external networks (PSTN/ISDN). Backward compatibility to existing solutions and ease of network introduction/upgrade shall be given high importance.

5 **Service Aspects**

None

6 **MMI-Aspects**

None

7 **Charging Aspects**

None

8 **Security Aspects**

None

9 **Impacts**

Affects:	UICC	ME	AN	CN	Others
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	apps				
Yes				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
223.9 *977	TR on Bandwidth and Resource savings and Speech enhancements for CS networks.	S2		SA# 2122	SA# 2224	TR should summarise the requirements and select the architectural solution.
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	

11 Work item rapporteurs

| ~~(name of physical person)~~ [Franz Seiser, T-Mobile](#)

12 Work item leadership

S2

13 Supporting Companies

Ericsson, Vodafone, Nortel, T-Mobile, AWS, mmO2

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

TBD