

Technical Specification Group Services and System Aspects
Meeting #20, Hämeenlinna, Finland
09-12 June 2003

TSGS#20(03)0308

Source: TSG SA WG2 (S2-032137)
Title: WID on “Bandwidth and Resource savings and Speech enhancements for CS networks.”
Agenda Item: 7.2.3

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 apps | ME | AN | CN | Others |
|-----------------|------------------|-----------|-----------|-----------|---------------|

| | | | | | |
|-------------------|---|---|---|---|--|
| 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 rsp. WG | 2ndary rsp. WG(s) | Presented for information at plenary# | Approved at plenary# | Comments |
| 22.9xx | TR on Bandwidth and Resource savings and Speech enhancements for CS networks. | S2 | | SA#21 | SA#22 | TR should summarise the requirements and select the architectural solution. |
| | | | | | | |
| Affected existing specifications | | | | | | |
| Spec No. | CR | Subject | | Approved at plenary# | Comments | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

11 Work item raporteurs

(name of physical person)

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