Source: **TSG SA WG2**
Title: **Revised WID for GTT**
Agenda Item: **7.2.3**

<u>Revision of SP-010340.</u>

Work with the GTT work item has made considerable progress. This is an updated Work item sheet.

Work Item Description

Title: Global Text Telephony

1 **3GPP Work Area**

X	Radio Access
X	Core Network
X	Services

2 **Linked work items**

(none)

3 **Justification**

<u>Deaf, hard-of-hearing and speech-impaired persons</u> use specific "Text Telephone" equipment in the fixed network since many years to transmit text and speech through ordinary speech traffic channels. Modern digital cellular systems, however, with their sophisticated error concealment technique, do not provide satisfying character error rates for text transmitted in the voice channel with the modulation from the fixed network. The US government in form of the FCC requires an urgent solution for all emergency (911) calls for one specific text telephone version ("Baudot"). The proposed work item shall address these FCC requirements quickly, but shall result in a <u>global</u> solution for all text telephony systems world wide, including support for multimedia calls with text.

4 **Objective**

Provide a solution for "Global Text Telephony" that supports real time text conversation fulfilling the FCC requirements. The ITU standard V.18 should be considered when designing interworking with fixed textphones and T.140 for the text coding and presentation. The solution shall be applicable for existing and future traffic channels in GSM and UMTS. The solution shall take modern multimedia capabilities of 3G systems into account.
The impact to existing or future cellular networks shall be minimal.
Interworking with messaging systems shall be considered.

5 **Service Aspects**

Emergency calls shall be possible as for ordinary speech calls, even without registration.

6 **MMI-Aspects**

The necessary interaction of the user shall be minimal, especially in case of emergency calls.

7 **Charging Aspects**

Nothing specific: like ordinary speech calls

8 Security Aspects

Same as for ordinary speech calls, especially in emergency cases.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		x	x	x	
No	X				
Don't know					

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
22.226	Global Text Telephony,, Stage 1 service description	S1	S2, S4, T2	3GPPSA#9 (Sep 2000)		Approved by SA1 May 2001
23.226	Global Text Telephony, Stage 2: Architecture	S2				Approved by SA2#18
~~27.226~~	~~Global Text Telephony, terminal aspects~~	~~T2~~	~~S2~~			~~May not be needed~~
26.226	Global Text Telephony, Cellular Text Telephone Modem, General Description	S4	S2	3GPPSA#9 (Sep 2000)	3GPPSA#10 (Dec 2000)	
26.230	CTM, Transmitter C-code	S4		3GPPSA#9 (Sep 2000)	3GPPSA#10 (Dec 2000)	
26.231	CTM Minimum Performance	S4		3GPPSA#10 (Dec 2000)	3GPPSA#11 (March 2001)	
26.235	Codecs for Conversational Multimedia	S4			SA#11 March 2001	Text part in joint document
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
26.110		C/S Multimedia :Add T.140 text protocol support		3GPPSA#10		Approved
24.008		Add CTM indicator to Bearer Capability				
48.008		Add Circuit pool definitiions with CTM				
21.905		Add GTT related nomenclature				
08.02 23.002 IH.248 Annex F 22.101 27.007		Add general description for GTT Add GTT Interworking to main architecture Addition of CTM to txc package Addition of text telephony to general services AT commands for CTM control		SA2#18 3GPPSA#10		3GPP SA#11

11 Work item raporteurs

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12   Work item leadership

Primary: SA-WG2, Secondary: T-WG2

13   Supporting Companies

Ericsson Radio Systems AB, Nokia, Voicestream, BT
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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

Text Feature Service Description.
Text Feature Architecture Specification.

Text feature activation and transport
Text Feature Interworking

~~Text Feature Terminal aspects including commonalities with Multimedia Messaging~~

15   **Document History**

Date	Doc name	Comment
17 March 2000	TSGSA#7(00)0162	**Proposed to SA#7**
18 March 2000	TSGSA#7(00)0162R2	**Adjusted according to SA#7 decision**
14 April 2000	TSGS1#8(00)0337r2	**List of expected output expanded**
12 July 2000	TSGS1#9(00)0475	**Impacts updated**
18 May 2001		