

TSG-SA4#30 meeting
February 23-27, 2004, Malaga, Spain

Tdoc S4 (04)0174

Title: **WID: Codec Enhancements for Packet Switched
Conversational Multimedia Applications (Release 6)**

Source: **TSG SA WG4**

Document for: **Approval**

Agenda Item: **7.4.3**

It is important to consider enhancements for the set of codecs for Packet Switched Conversational Multimedia Applications for each 3GPP release in order to provide the best possible QoS and also to enable harmonisation of the set of codecs throughout 3GPP. Release 6 Work Items exist for the consideration of codecs for all other services/applications (PSS, MMS, MBMS, IMS Messaging and Presence) but such is missing for Packet Switched Conversational Multimedia Applications. Therefore, a new Work Item is needed (see Annex A). The WI is needed for any changes (except corrections) in the codec and transport protocol definitions.

The objective of the proposed WI is to consider enhanced codecs (and the related transport protocols) for the set of codecs for PS conversational multimedia applications thus impacting TSs 26.235 and 26.236. Any changes in the set of codecs (and in the related transport protocols) should be well studied and justified as giving improved performance.

The priority in this work is in the harmonisation of codecs with other services and especially to consider if any of the enhanced codecs to be (potentially) included in Rel-6 for other services should be added also for PS conversational applications to obtain improved performance and harmonisation benefits. (E.g. the AVC video codec has been proposed also for PS conversational applications.)

Work Item Description

Title

Codec Enhancements for Packet Switched Conversational Multimedia Applications

1 3GPP Work Area

	Radio Access
	Core Network
X	Services

2 Linked work items

TSG-SA WG4 WI Packet Switched Streaming Services Rel-6
TSG-T WG2 WI Multimedia Messaging (MMS) enhancements (Rel-6)
TSG-SA WG4 WI Media Codecs and Formats for IMS Messaging and Presence (Rel-6)
TSG-SA WG4/WG1 WI Definition of MBMS user services, media codecs, formats and transport/application protocols using MBMS (Rel-6)

3 Justification

It is important to consider enhancements for the set of codecs for Packet Switched Conversational Multimedia Applications for each 3GPP release in order to provide the best possible QoS and also to enable harmonisation of the set of codecs throughout 3GPP. Release 6 Work Items exist for the consideration of codecs for all other services/applications (PSS, MMS, MBMS, IMS Messaging and Presence) but such is missing for Packet Switched Conversational Multimedia Applications.

4 Objective

The objective of the Work Item is to consider enhanced codecs (and the related transport protocols) for the set of codecs for PS conversational multimedia applications impacting TSs 26.235 and 26.236. The supporting companies are aware of the limited time until Rel-6 will be frozen and the intention is to keep the Rel-6 timeframe and not delay the release. Any changes in the set of codecs should be well studied and justified as giving improved performance. The priority in this work is in the harmonisation of codecs with other services and especially to consider if any of the enhanced codecs to be included in Release 6 for other services should be added also for PS conversational applications to obtain improved performance and harmonisation benefits.

5 Service Aspects

The Work Item will define the necessary codecs for PS conversational multimedia applications, for example voice, audio-visual and text conversation. (It should be noted that the standardisation of codecs will not stop the use of other codecs through the network if the end user or end application require it.)

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X		X	
No	X		X		
Don't know					

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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
26.235		Default codecs for PS conversational multimedia applications				
26.236		Protocols for PS conversational multimedia applications				

11 Work item rapporteur

Miska Hannuksela (Nokia)

12 Work item leadership

TSG SA WG4

13 Supporting Companies

Nokia, Ericsson, NTT DoCoMo, Toshiba, 3

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)