Source:	**TSG SA WG4 Codec**
Title:	**WID on 3G-324M Video Telephony Call Setup Times Improvements (Release 7)**
Document for:	**APPROVAL**
Agenda Item:	**7.4.3**

Work Item Description

Title

3G-324M Video Telephony Call Setup Times Improvements

1 3GPP Work Area

	Radio Access
	Core Network
X	Services

2 Linked work items

None

3 Justification

Video telephony is very important for the successful adoption of UMTS. 3G-324M, the basis for 3GPP circuit-switched multimedia calls, was based on H.324 and has been evolving ever since its first introduction into 3GPP specifications in Rel-99. As part of this evolution, new codecs have been proposed and adopted in 3GPP to improve the quality of service. These evolutions have been focusing so far on the media quality and not on other aspects such as call set-up time, which also greatly affects user experience.

Using Rel-99, the time taken to set up a 3G-324M call is currently significantly longer than that taken to set up a voice call. This quality of experience is broadly acceptable to early UMTS adopters. However, as adoption becomes broader, this tolerance will decrease.

In the interest of facilitating broader adoption of UMTS and mobile video telephony, further solutions should be identified to accelerate 3G-324M.

4 Objective

The final objective of this work item is to reduce 3G-324M call set-up time to the equivalent of a voice call. Since methods to achieve this goal have already been proposed and adopted in other standards bodies, we propose to start the work by investigating and reusing as much as is relevant of the existing solutions. Therefore we suggest a phased approach to this work. SA4 will liaise to SA1 to get requirements for this work (and will liase also with GERAN depending on the output on the Feasibility Study on Enhanced Support of Video Telephony).

Phase 1 (Dec 2005): Adopt one of the currently available and stable technologies (e.g. the WNSRP proposal in ITU-T). The likely output of this phase would be a CR.

Phase 2 (Dec 2006): Assess the output of Phase 1 against the defined requirements. In the event of further development being needed, SA4 shall open a selection process for innovative technical proposals. Input from other standards bodies (ITU-T, TISPAN, 3GPP2 etc.) will be invited. Any selected solution shall be backwardly compatible or agnostic to the phase 1 solution.

5 Service Aspects

This work item is focused on delivering enhanced user experience of 3G-324M. This may be accomplished by several methods including optimizing the in-band call control (H.245)

6 MMI-Aspects

The user shall experience reduced 3G-324M circuit-switched multimedia call set-up time. It is not expected that there shall be any other impact on the MMI aspects.

7 Charging Aspects

Outside the scope of SA4; however, existing 3G-324M charging models will still be valid.

8 Security Aspects

Outside the scope of SA4; however, the existing security features for 3G-324M will still be valid.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X			
No	X		X	X	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
26.abc	3G.324M signalling extensions	S4	CT1	tbd	tbd	

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
24.008				
26.911				
26.111				

11 Work item rapporteur(s)

Edward Hall (Vodafone)

12 Work item leadership

SA4

13 Supporting Companies

Vodafone, Ericsson, NEC, 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

No Work Items currently 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)