TSGS#23(04)0043

Technical Specification Group Services and System Aspects Meeting #23, Phoenix, USA, 15 - 18 March 2004

Source: TSG SA WG2 (S2-041044)

Title: Updated WID on "Circuit Switched Video and Voice Service"

Agenda Item: 7.2.3

Work Item Description

Title: Circuit Switched Video and Voice Service Improvements

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

none identified

3 Justification

Many operators regard circuit video services as a key part of UMTS. However there is a strong desire to have an effective and user friendly method of swapping between voice and video services when the user desires and/or when radio conditions change and video mode is no longer available providing fall-back to voice only services when radio conditions change and video mode is no longer available. There are several situations where swapping between video and voice calls is needed. These include (but are not limited to):

- a) movement from good 3G coverage (ie able to support 64 kbit/s uplink) into "fringe 3G coverage" (ie able to support voice but not video on the uplink)
- movement from good 3G coverage into 2G coverage (eg at a corner, or entry into a building);
 and
- c) when using voice on a 2G cell (which is in a 3G coverage area) the customer initiates a video session with the person they are speaking to.
- d) whenever the user wishes to switch from a voice call to video call (or back).

Current stage 3 *interface* specifications appear to contain most of the tools needed to provide this functionality. However, in order to build the service, the system needs specific functionality that is not described in any current TR or TS.. A standardised solution is required to provide interoperability and a consistent user experience.

4 Objective

The objectives are:

- 1) document any relevant stage 1 requirements
- 2) compare mechanisms to implement the requirement <u>in an 800 series TR</u> and based on the chosen solution produce a stage 2 description
- 3) produce any necessary stage 3 changes (hopefully none are required)

The Release 5 Service Change and UDI Fall Back Mechanism (SCUDIF): "Dual Call" and "Re-dial" are is a some potential candidates. Enhancements might be required to fulfill the service requirements (e.g. inter RAT handover).

5 Service Aspects

Presentation of the service change to the user needs to be considered. The choice of criteria to trigger the service change needs to balance the desire to hold on to a video service as long as possible against the degradation of the video service under poor service conditions.

6 MMI-Aspects

No specification is expected. However, the output of this WI is needed as an enabler for mobile manufacturers to design customer friendly MMIs for this service.

7 Charging Aspects

User charging and Inter-operator accounting for calls which undergo service change needs to be considered.

8 Security Aspects None anticipated.

9 Impacts

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

10 Expected Output and Time scale (to be updated at each plenary)

				New spe	ecifi	cations		
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	Pres info	sented for rmation at nary#	Approved at plenary#	Comments
	Improvements for Circuit Switched Video and Voice Service		SA1		#23	3	#24	
TR 23.8xy	Potential Mechanisms for CS Domain Video and Voice Service Improvements		SA 2		#24	4	#24	
			Affe	cted existi	ina s	specification	ons	
Spec No.	CR Subject				Approved at plenary#		Comments	
22. ???		?				# 23		Alternatively requirements may be captured in a new or an existing specification.
2 2.101		7.2.1 Circuit-switched multimedia calls			ia	<u>#23</u>		
23.009		?				#25		
23.172		Technical real Switched (CS Multimedia se UDI/RDI fallba modification) rvice			#25		
48.008		?				#25		
25.413		?				#25		
24.008		?				#25		
		This list, and tany need for a document, showhen the TRs to SA "for info	new stanould be tage 2 is	age 2 completed presente	d	#25		

Work item raporteurs

Work item leadership

SA <u>2</u>1

13 Supporting Companies

Vodafone Group, Nortel Networks, T-Mobile, Orange, TIM, Ericsson, Siemens, TeliaSonera

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

Building Blocks and Work Tasks are anticipated to be identified when the stage 2 is presented "for information".

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)

form change history: 2002-07-04: "USIM" box changed to "UICC apps"