3GPP TSG CN Plenary Meeting #14 Kyoto, Japan. 12th - 14th December 2001.

NP-010570

Source: CN3

Title: WID for Service Change and UDI Fallback

Work Item Description

Title: Service Change and UDI Fallback

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

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3 Justification

CS video telephony via 3G.324M terminals may become a quite expensive service compared to ordinary CS speech because if a user temporarily disables the video stream the invoicing will not be reduced. The user will be charged for both the speech as well as the data bearer (and thus the used bandwidth is not changed). Users may therefore decide not start calling via video telephony service.

In order to make CS video telephony more attractive the user may appreciate the ability to change between CS speech and CS multimedia service by a change of the bearer during the active state of a call. The procedure for invoking this change should be as simple as possible, e.g., by the touch of a button. In this way users save money and video telephony gets more and more used. A convenient way to change between ordinary speech and multimedia (video) can be regarded a key service when introducing UMTS multimedia. It is also a kind of end user test possibility for video telephony.

4 Objective

The objective of this work item should be to base service change and fallback from UDI multimedia to speech on the standardised network (also terminal) capability to change the service from CS modem multimedia to speech at fallback after call setup. The same principles should be applied here as well.

- Fallback indication (a speech BC-IE and a modern multimedia BC-IE in SETUP and CALL CONFIRMED) should also be applicable to UDI multimedia and speech.
- At the same time it shall be an indication for a service change capability (of the network and terminal).
- The network should accept a service change (MODIFY is received) after call setup in both directions, speech to multimedia and multimedia to speech. A service change is only allowed between the indicated services at call setup.
- The existing in-call modification to change the call mode (TS 24.008, 5.4.3.4) should be used to change the radio and network resources.
- Core network signalling is using Out-of-Band Transcoder Control (OoBTC) to signal UDI multimedia capabilities across the network at call setup and for service change during the call.

5 Service Aspects

When transit networks outside PLMNs are involved the provisioning of service change and fallback can not be guaranteed.

6 MMI-Aspects

No. Implementation dependent.

7 Charging Aspects

No.

8 **Security Aspects**

9 **Impacts**

No

10

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

$\label{thm:equiv} \textbf{Expected Output and Time scale (to be updated at each plenary)} \\$

	New specifications							
Spec No.	Title		Prime rsp. WG	2ndary rsp. WG(s)	info	esented for ormation at enary#	Approved at plenary#	Comments
	<u> </u>		Affe	cted existi	ng	specification	ons	
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Spec No.	CR	Subject				Approved a	t plenary#	Comments
29.007		General requi interworking b Land Mobile N the Integrated Network (ISDN Telephone Ne	etween to letwork (Services N) or Pub	the Public PLMN) and S Digital blic Switche		CN#14 (Dec 01)		Enhancing the fallback from modem multimedia to speech capability by user initiated service change and fallback from UDI multimedia to speech.
24.008		Mobile radio ii specification; Protocols - St	Core Ne			CN#14 (Dec 01)		Enhancing the fallback from modem multimedia to speech capability by user initiated service change and fallback from UDI multimedia to speech.
27.001		General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)			CN#14 (Dec 01)		Enhancing the fallback from modem multimedia to speech capability by user initiated service change and fallback from UDI multimedia to speech.	
23.153		Out of Band T Stage 2	ranscode	er Control	-	CN#15 (Mar 02)		Enhance the current OoBTC procedures to support negotiation of a multimedia codec
26.103		Speech Code UMTS	c List for	GSM and		SA#15 (Mar 02)		Add a multimedia codec for negotiation of fallback and service change for UDI multimedia (OoBTC)

11 Work item raporteurs

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Work item leadership

CN3

13 Supporting Companies

Ericsson, Vodafone, Mannesmann Mobilfunk, France Telecom, Hutchison 3G

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: no building blocks under this feature

14b The WI is a Building Block:

14c The WI is a Work Task: