Source:	**Drafting**
Title:	**New WI on Feasibility Study on IMS with real time services deployments**
Document for:	**Approval**
Agenda Item:	**7.1.3**

Work Item Description

Title

Feasibility Study on IMS with real time services deployment

1   3GPP Work Area

	Radio Access
X	Core Network
X	Services

2   Linked work items

(list of linked WIs)

3   Justification

Many operators regard IMS as a key feature. However, there remain issues with the efficiency of transferring Voice over IP over the radio interface, and, with the capability of the GSM radio interface to handle VoIP. Additionally, operators are interested in techniques that may provide the ability to smooth the rollout and accelerate the take-up of IMS.

As a result of this, some companies have discussed using the existing CS infrastructure to transport the voice traffic for multimedia services. These discussions have tended to show that there are many different techniques for combining the CS and IMS parts together. However, leaving mobile vendors, infrastructure vendors and operators to develop these different techniques in isolation is likely to lead to interoperability problems and fragmented, small markets.

4   Objective

The objective is to study the different options for combining CS and IMS capabilities.

The feasibility studies will cover the requirements, possible solutions; and their tradeoffs. So far two possible solutions have been identified, these are:

- using CS real time bearers with IMS sessions to better satisfy the existing requirements in TS 22.228
- adding an IMS session to a CS call for exchange of media (e.g. picture, video clip, file) and vice versa.

As the two solutions are related on the architectural level, the stage 2 feasibility studies will be documented in single TR. This TR will address migration and interoperability issues.

5   Service Aspects

For the option of combining CS calls and IMS sessions, there will be a need to study the interactions of the service capabilities.

6   MMI-Aspects

None presently identified

7   Charging Aspects

Inter-operator accounting and roaming charging aspects need to be considered for the CS bearer and its relationship with any IMS session.

8   Security Aspects

The restriction and disclosure of terminal capabilities should be investigated.

Note: Adding a medium might require separate authorisation.

9   Impacts

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

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

See WIDs for the building blocks

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
		TBD				

11 Work item raporteurs

TBD

12 Work item leadership

SA1

13 Supporting Companies

Ericsson, Vodafone, Telecom Italia, TeliaSonera, Orange NEC, Nortel Networks

14 Classification of the WI (if known)

The WI is a Feasibility Study

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

IMS services using CS bearers
Combining CS calls and IMS sessions

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)

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