Source: TSG CN WG 1

Title: **Revision of IMS Stage-3 Enhancements**

Agenda item: **9.1**

Document for: **APPROVAL**

3GPP TSG-CN1 Meeting #34   **Tdoc N1-041094**
Zagreb, Croatia   10 – 14 May 2004   *was tdoc N1-041013, N1-040879, NP-040034*

Source:	Nokia
Title:	Revised IMS2 Work Item – leaving out Floor Control and Media Policy Control
Agenda item:	8.3
Document for:	APPROVAL

Introduction

The IMS2 Work Item is revised in order

- explicitly remove IMS conferencing media policy control from the scope of Rel-6, due to the slow progress in IETF; and
- to update the dates at which the documents are presented for information and for approval to the plenary.

Work Item Description

Title

IMS Stage-3 Enhancements

1   3GPP Work Area

	Radio Access	
X	Core Network	
	Services	

2   Linked work items

Stage-2 of IMS Phase 2 (32027)
Emergency Call Enhancements for IP & PS Based Calls – stage 3 (32045)
Interworking between IMS and CS networks (2047)
Interworking between IMS and IP networks (2048)
Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks" (11032)

3   Justification

In Release 5, the IMS was defined to support IP Multimedia services. The feature set in Release 5 provides a basis for IP Multimedia support. For some capabilities already identified, Stage 2 was not completed as part of Release 5 and the need for other new capabilities is being identified.

4   Objective

The objectives of this work item are to finalise Stage 3 work on postponed Release 5 features and to refine and further develop support of the IP Multimedia services in a wireless network. The areas to be considered are:

1. IM CN subsystem local services
    This item is to provide any additional SIP and SDP (or other SIP message body) work that may be necessary to support access to services in the local serving IM CN subsystem.
    Note: It is not yet clear what work will be required in CN1 for this work item.

2. IM CN subsystem Group management
    This item is to provide SIP and SDP (or other SIP message body) specification necessary to support the IM CN subsystem capabilities to facilitate group-enabled services (e.g., chat).

3. IM CN subsystem Conferencing
    This item is to provide any additional SIP and SDP (or other SIP message body) specification that may be necessary in support of conferencing services. Additionally this item is to provide data manipulation for conferencing (CPCP) in IMS.
    Note: There is ongoing work in IETF SIP and SIPPING groups that needs to be taken into account in conjunction with this area.
    Note: As the work in IETF on media policy control for conferencing is not progressing, these issues are left out from the Rel-6 time frame.

4. IM CN subsystem Messaging
    This item is to provide the SIP and SDP (or other SIP message body) support necessary to support the capabilities required for messaging services in the IM CN subsystem being defined by SA1.
    Note: This is subject to a feasibility study at stage 1, and work in this area should not commence until that stage 1 work has determined that this work area should proceed.

5. Additional SIP Capabilities Support
    This item is to provide any SIP and SDP (or other SIP message body) specification necessary to support desired SIP capabilities that are not covered in Release 5 (e.g., forking).
    Note: This work area needs to explicitly identify enhancements before they can be included in the expected output and timescale table.

6. End-to-end aspects for interworking with other IP networks
    This item is to provide any SIP and SDP (or other SIP message body) specification necessary to support interworking with other IP networks. This may include changes to preconditions requirements, and other material to support interworking with Ipv4 networks

These are based on stage 2 work performed under work item: "IMS Stage-2 Enhancements"

Additionally the following stage 3 specific area is covered by this work item:

7. Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not

In addition to the existing interfaces on IMS some of the listed areas e.g. conferencing, require work on data manipulation related signalling via the Ut interface.

5   Service Aspects

None. Service aspects are covered by other work item descriptions.

6   MMI-Aspects

None. MMI Aspects are covered by other work item descriptions.

7   Charging Aspects

None. Charging Aspects are covered by other work item descriptions. Within release 5 there are protocol mechanism providing in support of charging, and these may require enhancement by work areas described by this work item.

8   Security Aspects

None. Security Aspects are covered by other work item descriptions. Within release 5 there are protocol mechanism providing in support of security, and these may require enhancement by work areas described by this work item.

9   Impacts

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

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 29.847	Conferencing based on SIP, SDP and other protocols, Functional Models, information flows and protocol details (Release 6)	CN1		CN#21 (September 2003)	CN#2~~4~~5 (~~September~~ June 2004)	Includes SIP and SDP specific conferencing procedures and call flows for UE, AS and CSCFs. Includes signalling for conferencing specific data manipulation over the Ut interface.
TS 24.147	Conferencing using the IM CN subsystem; Stage 3	CN1		CN#24~~3~~ (June~~March~~ 2004)	CN#25 (September 2004)	Includes SIP and SDP specific conferencing procedures and call flows for UE and AS. Includes functional signalling for conferencing specific data manipuliation over the Ut interface based on IETF solutions.
TS 24.247	Messaging service using the IM CN subsystem; Stage 3	CN1		CN#24~~3~~ (June~~March~~ 2004)	CN#25 (September 2004)	Includes SIP specific messaging procedures and call flows for UE and AS.

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
23.218		Enhancements in support of IM CN subsystem local services	CN#25~~4~~	Impact of work area to be evaluated
24.228		Enhancements in support of IM CN subsystem local services	CN#25~~4~~	Impact of work area to be evaluated
24.229		Enhancements in support of IM CN subsystem local services	CN#25~~4~~	Impact of work area to be evaluated
23.218		Enhancements in support of IM CN subsystem Conferencing	CN#25	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF
24.228		Enhancements in support of IM CN subsystem Conferencing	CN#25	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF
24.229		Enhancements in support of IM CN subsystem Conferencing	CN#25	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF Conferencing specific procedures at CSCFs (if applicable) Messaging specific procedures at CSCFs (if applicable)

23.218		Enhancements in support of IM CN subsystem Messaging	CN#254	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.228		Enhancements in support of IM CN subsystem Messaging	CN#254	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.229		Enhancements in support of IM CN subsystem Messaging	CN#254	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
23.218		Enhancements in support of end-to-end aspects for interworking with other IP networks	CN#25	
24.228		Enhancements in support of end-to-end aspects for interworking with other IP networks	CN#25	
24.229		Enhancements in support of end-to-end aspects for interworking with other IP networks	CN#25	
23.218		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not	CN#25	Currently this includes session-timer, caller-preferences, referred-by
24.228		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not	CN#25	Currently this includes session-timer, caller-preferences, referred-by
24.229		Review of additional capabilities provided in SIP by IETF, and provide documentation as whether these capabilities are supported in the IM CN subsystem or not	CN#25	Currently this includes session-timer, caller-preferences, referred-by

11 Work item raporteurs

Keith Drage
Lucent Technologies
Tel: +44 1793 776249
Email: drage@lucent.com

12 Work item leadership

CN1

13 Supporting Companies

Lucent Technologies, Siemens, Qualcomm, Nokia

14 Classification of the WI (if known)

	Feature (go to 14a)	

X	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

IMS Phase 2 (unique id 32021)

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

(one Work Item identified as a building block)