3GPP TSG CN Plenary Meeting #20 **NP-030286**
4th - 6th June 2003. HÄMEENLINNA, Finland.

Source: **CN1**

Title: **IMS Stage-3 Enhancements**

Agenda item: **9.4**

Document for: **APPROVAL**

3GPP TSG-CN1 Meeting #29 ***Tdoc N1-030916***
Sophia-Antipolis, France, 31 March – 04 April 2003
was Tdoc N1-030436, N1-030545, N1-030611

Source: Nokia

Title: Revised WID on IMS Stage 3 Enhancements

Agenda item: 8.08

Document for: APPROVAL

Introduction

A number of revisions are needed to the WID to cater for ongoing discussion and development of this work item.

Proposed changes

The following changes are required:

1. The subtask "Identity portability in IM CN subsystem" is apparently not proceeding and if so, requires no CN1 activity. This should be confirmed and is agreed, the task should therefore be removed.
2. Removal of dynamicsoft from the list of supporting organisations, as they are no longer a 3GPP member. Note that this leaves only three supporting organisations, and I am sure there are more than that out there!
3. Separate TS's for service description of IMS Messaging and Conferencing.
4. Update of Conferencing title and number (changed since CN1#30)
5. State that Conference Data Manipulation shall be based on IETF decisions on this issue.
6. PSS Alignment deleted (reference: S2-031549)

Further changes are likely based on the discussion of N1-030435 during the meeting.
The indicated approval dates shall be adjusted to the actual Rel-6 time frame as soon as decided.

Note that all changes from the last approved rework (N1-030545) have been kept as the WID was not presented to CN plenary in the meantime.

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)~~IMS Stage-2 Enhancements~~
Emergency Call Enhancements for IP & PS Based Calls – stage 3 (32045~~1653~~)~~Emergency Calls in IMS (1653)~~
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.Identity portability in IM CN subsystem~~
~~This item is to provide any SIP and SDP (or other SIP message body) specification necessary to provide the analog to number portability for IM CN subsystem user's public user Ids.~~
~~Note: It is not yet clear what work will be required in CN1 for this work item.~~

~~2.~~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.

~~3.~~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).

~~4.~~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.

~~4.PSS alignment to IM CN subsystem~~
~~This item is to provide any SIP and SDP (or other SIP message body) specification necessary to support the reuse of IM CN subsystem elements for PSS support.~~
~~Note: It is not yet clear what work will be required in CN1 for this work item.~~

~~6.~~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.

~~7.~~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.

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:
~~8.~~6. 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 Mt 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

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
TR 29.847	Conferencing based on SIP, SDP and other protocols, Functional Models, information flows and protocol details (Release 6)	CN1		CN1#21 (September 2003)	CN1#22 (September 2003)	Includes SIP and SDP specific conferencing procedures and call flows for UE, AS and CSCFs. Includes signalling for conferencing specific data manipulation over the Mt interface.
TS ab.cde	Conferencing using the IM CN subsystem; Stage 3	CN1		CN#21 (September 2003)	CN#22 (December 2003)	Includes SIP and SDP specific conferencing procedures and call flows for UE and AS. Includes functional signalling for conferencing specific data manipulation over the Mt interface based on IETF solutions.
TS ab.cde	Messaging using the IM CN subsystem; Stage 3	CN1		CN#21 (September 2003)	CN#22 (December 2003)	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 Identity portability in IM CN subsystem~~	~~CN#21(September 2003)~~	~~Impact of work area to be evaluated~~
~~24.228~~		~~Enhancements in support of Identity portability in IM CN subsystem~~	~~CN#21(September 2003)~~	~~Impact of work area to be evaluated~~
~~24.229~~		~~Enhancements in support of Identity portability in IM CN subsystem~~	~~CN#21(September 2003)~~	~~Impact of work area to be evaluated~~
23.218		Enhancements in support of IM CN subsystem local services	CN#22~~1(September 2003)~~	Impact of work area to be evaluated
24.228		Enhancements in support of IM CN subsystem local services	CN#2~~1(September 2003)~~2	Impact of work area to be evaluated
24.229		Enhancements in support of IM CN subsystem local services	CN#2~~1(September 2003)~~2	Impact of work area to be evaluated
23.218		Enhancements in support of IM CN subsystem Conferencing	CN#2~~1(September 2003)~~2	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF
24.228		Enhancements in support of IM CN subsystem Conferencing	CN#2~~1(September 2003)~~2	Incorporation of IETF work, possibly after submission of 3GPP requirements to IETF

24.229		Enhancements in support of IM CN subsystem Conferencing	CN#21~~(September 2003)~~2	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 PSS alignment to IM CN subsystem	CN#21~~(September 2003)~~2	Impact of work area to be evaluated
24.228		Enhancements in support of PSS alignment to IM CN subsystem	CN#21~~(September 2003)~~2	Impact of work area to be evaluated
24.229		Enhancements in support of PSS alignment to IM CN subsystem	CN#21~~(September 2003)~~2	Impact of work area to be evaluated
23.218		Enhancements in support of IM CN subsystem Messaging	CN#21~~(September 2003)~~2	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.228		Enhancements in support of IM CN subsystem Messaging	CN#21~~(September 2003)~~2	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
24.229		Enhancements in support of IM CN subsystem Messaging	CN#21(September 2003)	Incorporation of MESSAGE method, and also IETF solution for a session-based mechanism
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#21~~(September 2003)~~2	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#21~~(September 2003)~~2	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#21~~(September 2003)~~2	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, ~~dynamicsoft,~~ 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)~~IMS enhancements stage 1 (WID still to be created).~~

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

(one Work Item identified as a building block)