

**3GPP TSG-CN1 Meeting #36
Seoul, Korea, 15-19 November 2004**

Tdoc N1-040495

Source: CN1
Title: New IP Multimedia Core Network Subsystem WID - IMS Stage3 Protocol Evolution (Phase 3)
Agenda item: 10.1
Document for: APPROVAL

The document contains New IP Multimedia Core Network Subsystem WID - IMS Stage3 Protocol Evolution (Phase 3) approved in N1-042030 and is forwarded to CN#26 for approval.

INTRODUCTION:

As we enter release 7, it is expected that there will be ongoing work on IMS. At a minimum, there is a significant amount of outstanding work from IETF SIP, SIPPING and MMUSIC working groups that ought to be documented as to how it is used within IMS. Additionally, any TEI type items that would otherwise be included under TEI can beneficially be included under this work item.

It is proposed that this work item should be limited to generic IMS aspects only (i.e. those documented within the scope of 3GPP TS 23.218 or 3GPP TS 24.229 – it is assumed that 3GPP TS 24.228 will not be created in release 7). Any extension to existing IMS applications, e.g. Presence, Conferencing, or Messaging, should be dealt with a separate work items. Any new IMS application work should be dealt with by a further new work item.

It is envisaged that apart from the task listed above, other release 7 work will be identified. These can be added to the work item as they are identified.

As emergency calls work has slipped to release 7, we have included it from the list of linked work items.

CN1 are proposing this work item as a feature in its own right.

Work Item Description

Title

IMS Stage-3 Protocol Evolution (Phase 3)

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

Emergency Call Enhancements for IP & PS Based Calls – stage 3 (32045)
Protocol impact from providing IMS services via fixed broadband (11050)

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. At Release 6 further work was identified. At Release 7 the need for other new capabilities is being identified, and there is still significant ongoing work in IETF that should be documented in relation to its impact on IMS.

4 Objective

The objectives of this work item are to finalise Stage 3 work on postponed Release 5 and 6 features and to refine and further develop support of the IP Multimedia services in a wireless network. The areas to be considered are:

1. 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 above listed items, there may be minor technical improvements and enhancements to IMS, not of sufficient significance to be normally covered by a work item, that can be dealt with by this work item.

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 and release 6 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 and release 6 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:	UICC apps	ME	AN	CN	Others
Yes		X		X	
No			X		
Don't know	X				X

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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#	Comments	
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#30		
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#30		

11 Work item rapporteur(s)

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

12 Work item leadership

CN1

13 Supporting Companies

Lucent Technologies, Siemens, ???

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 are identified by item list under objective.

14b The WI is a Building Block: parent Feature

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

(one Work Item identified as a building block)

form change history:
v1.11.0: includes those changes from v1.8.0 agreed at SP-25.
v1.10.0: full circle
v1.9.0: a clean sheet
v1.8.0: includes comments from SA#24
v1.7.0: includes comments from RAN, CN and T #24; also includes "early implementation" data
v1.6.0: includes comments made during review period prior to TSGs#24
v1.5.0: includes comments made at TSGs#23 (Phoenix)
v1.4.0: offered to SA#23 for approval

v1.3.0: offered to CN#23, RAN#23 and T#23 for comments
DRAFT4 v1.3.0: 2004-03-09: Incorporation of comments from Leaders list
DRAFT3 v1.3.0: 2004-02-19: Incorporation of comments from MCC members
DRAFT2 v1.3.0: 2004-01-29: Complete redraft:
v1.2.0: 2002-07-04: "USIM" box changed to "UICC apps"
2003-05-28: spelling of "rapporteur" corrected
2002-07-04: "USIM" box changed to "UICC apps"

Source: Lucent Technologies
Title: IP Multimedia Core Network Subsystem WID
Agenda item: 7.04
Document for: APPROVAL

As we enter release 7, it is expected that there will be ongoing work on IMS. At a minimum, there is a significant amount of outstanding work from IETF SIP, SIPPING and MMUSIC working groups that ought to be documented as to how it is used within IMS. Additionally, any TEI type items that would otherwise be included under TEI can beneficially be included under this work item.

It is proposed that this work item should be limited to generic IMS aspects only (i.e. those documented within the scope of 3GPP TS 23.218 or 3GPP TS 24.229 – it is assumed that 3GPP TS 24.228 will not be created in release 7). Any ~~new IMS application work, or~~ extension to existing IMS applications, e.g. Presence, Conferencing, or Messaging, should be dealt with ~~by a~~ separate work items. Any new IMS application work should be dealt with by a further new work item.

It is envisaged that apart from the task listed above, other release 7 work will be identified. These can be added to the work item as they are identified.

As emergency calls work has slipped to release 7, we have included it from the list of linked work items.

~~We do need to discuss whether this work item is a feature in its own right, or whether it is a building block under some yet to be created work item. One view would be to make it a feature under CN ownership, with any stage 2 implications covered as they are identified. CN1 are proposing this work item as a feature in its own right.~~

Work Item Description

Title

IMS Stage-3 ~~Enhancements~~ Protocol Evolution (Phase 3)

1 3GPP Work Area

	Radio Access
X	Core Network
	Services

2 Linked work items

Emergency Call Enhancements for IP & PS Based Calls – stage 3 (32045)
Protocol impact from providing IMS services via fixed broadband (?????)

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. At Release 6 further work was identified. At Release 7 the need for other new capabilities is being identified, and there is still significant ongoing work in IETF that should be documented in relation to its impact on IMS.

4 Objective

The objectives of this work item are to finalise Stage 3 work on postponed Release 5 [and 6](#) features and to refine and further develop support of the IP Multimedia services in a wireless network. The areas to be considered are:

1. 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 above listed items, there may be minor technical improvements and enhancements to IMS, not of sufficient significance to be normally covered by a work item, that can be dealt with by this work item.

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 and release 6 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 and release 6 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:	UICC apps	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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
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#30		
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#30		

11 Work item rapporteur(s)

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

12 Work item leadership

CN1

13 Supporting Companies

Lucent Technologies, [Siemens](#), ???

14 Classification of the WI (if known)

<input checked="" type="checkbox"/>	Feature (go to 14a)
<input checked="" type="checkbox"/>	Building Block (go to 14b)
<input type="checkbox"/>	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)~~ [Building blocks are identified by item list under objective.](#)

14b The WI is a Building Block: parent Feature

~~IMS Phase 3 (?????????)~~

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

(one Work Item identified as a building block)

v1.10.0: full circle
v1.9.0: a clean sheet
v1.8.0: includes comments from SA#24
v1.7.0: includes comments from RAN, CN and T #24; also includes "early implementation" data
v1.6.0: includes comments made during review period prior to TSGs#24
v1.5.0: includes comments made at TSGs#23 (Phoenix)
v1.4.0: offered to SA#23 for approval
v1.3.0: offered to CN#23, RAN#23 and T#23 for comments
DRAFT4 v1.3.0: 2004-03-09: Incorporation of comments from Leaders list
DRAFT3 v1.3.0: 2004-02-19: Incorporation of comments from MCC members
DRAFT2 v1.3.0: 2004-01-29: Complete redraft:
v1.2.0: 2002-07-04: "USIM" box changed to "UICC apps"
2003-05-28: spelling of "rapporteur" corrected
2002-07-04: "USIM" box changed to "UICC apps"