

**Source:** Chairman CN3 ([norbert.klehn@icn.siemens.de](mailto:norbert.klehn@icn.siemens.de))  
**Title:** CN3 Status Report to CN Plenary  
**Agenda item:** 6.3.1  
**Document for:** INFORMATION

---

1. General.....	2
1.1 Last Meetings .....	2
1.2 Administrative Work.....	2
2. Work Items Rel-4 and earlier.....	2
2.1 GPRS.....	2
2.2 Circuit switched Data services .....	2
3. Work Items Rel-5 .....	2
3.1 Circuit switched Data services .....	2
3.2 GPRS.....	3
3.3 Service Change and UDI fall back for CS Multimedia (SCUDIF).....	3
3.4 End-to-end QoS: Go interface .....	3
4. Work Items Rel-5 or later.....	3
4.1 Interworking between the IM Subsystem and CS networks .....	3
4.2 Interworking between the IM Subsystem and IP networks .....	4
4.3 Multimedia Broadcast Multicast Services (MBMS).....	4
5. Output Documents .....	4
5.1 Change Request.....	4
5.2 Liaison Statements .....	5
5.3 Work Items.....	6
5.4 TRs and TSs .....	6
6. Next Meetings .....	6
7. Acknowledgements .....	6

# 1. General

## 1.1 Last Meetings

Two CN3 meetings have taken place since the last TSG-CN plenary:

?? CN3#22 08<sup>th</sup> – 12<sup>th</sup> April 2002, Fort Lauderdale, USA, hosted by "NA Friends of 3GPP".

?? CN3#23 13<sup>th</sup> – 17<sup>th</sup> May 2002, Budapest, Hungary, hosted by Ericsson.

The detailed CN3 meeting reports are contained in **NP-020161** (CN3#22) and **NP-020162** (CN3#23). This status report summarises the results from these meetings and presents the current status of work in CN3.

## 1.2 Administrative Work

CN3 has reviewed and provided comments to the 3GPP work plan. These comments have been provided to MCC.

Dependencies to IETF and ITU-T specs have been reviewed. These information will be incorporated into the Work Plan and also on the IETF tracking document on the 3GPP Website.

# 2. Work Items Rel-4 and earlier

## 2.1 GPRS

Some corrections for the solution to transfer the user identity from GGSN to an application server by means of the RADIUS protocol are still necessary. The CRs for R97, R98, R99 and Rel-4 are included in document **NP-020170**. The CRs correct the interpretation and presentation of some attributes.

Further, they correct and align some call flows.

Another set of CRs in document **NP-020171** includes the specification of IP address autoconfiguration of IP v6 terminals in TS 29.061 and 27.060. These CRs also provide a general IP v6 update for these specifications. As requested by SA2, the CRs are provided for versions back to R99.

## 2.2 Circuit switched Data services

Document **NP-020172** contains a set of CRs that corrects the signalling of FTM (frame tunnelling mode) calls. Without these CRs the FTM service is mapped to an ambiguous ISDN BC and can therefore not recognised at the terminating side. The LLC shall be used to signal FTM.

# 3. Work Items Rel-5

## 3.1 Circuit switched Data services

Document **NP-020172** contains also CRs that found agreement in CN3 only for Rel-5. They are related to the CS domain concerning call handling at call set-up.

TS 27.001 was corrected regarding the applicability of some parameters of the Bearer Capability information element for multislot configurations. It was clarified that the 'fixed network user rate' and 'other modem type' takes precedence over the 'user rate' and 'modem type', unless the 'modem type' indicates "autobauding".

Another Change Request against TS 29.007 clarifies the logic in V-MSC and HLR for modem and facsimile calls. Those calls are signalled for some reasons sometimes as speech calls from the fixed networks. It was clarified that the HLR has to give preference to the information coming from its own data base.

## 3.2 GPRS

Before TS 29.061 is frozen for release 5, some work which is still in progress should be finished. It is a new clause specifying GGSN procedures for interaction with IMS. This clause does also include a solution to a request from SA2#24 (LS 'Clarification of IMS signalling flag' N3-020475/S2-021530) on a static TFT for packet filtering of the dedicated signalling PDP context.

This work was not finished in CN3#23, because of unclear status in CN1 on how signalling indication shall be passed from UE to GGSN. It is still open whether the indication will be passed in both primary and secondary PDP context activations or in primary only. Ericsson is preparing a clarification for this to the CN plenary, which will allow the TS 29.061 work to be finished before the September CN plenary.

## 3.3 Service Change and UDI fall back for CS Multimedia (SCUDIF)

Triggered by an LS from SA1, CN#15 has required that CN3 has to provide a solution for interworking with ISUP. This has been realised by CN3. The interworking with ISUP networks or BICC networks that do not support this feature shall allow a graceful rejection of the service change and a successful call set-up using a single service.

The Change Requests against TS 27.001 and TS 29.007 for the Work Item on circuit switched Multimedia service change and fall back for UDI connections are agreed in CN3. They can be found in document **NP-020169**.

A stage 2 specification TS 23.172 on "Technical realisation of Circuit Switched (CS) Multimedia Service; UDI/RDI Fallback and Service Modification" is presented to NP#16 **for approval** in document **NP-020168**.

The Work Item description sheet was updated accordingly and is provided in document **NP-020164**.

The Work Item [SCUDIF] is considered complete for Release 5 from CN3's perspective.

## 3.4 End-to-end QoS: Go interface

The work on this Work Item has dominated the last two CN3 meetings. Several evening drafting and editing sessions have been held, and there was also an additional two day ad-hoc meeting prior to CN3#23 in Budapest to specify the Go PIB.

As a result CN3 is able to provide two specifications to CN#16 **for approval**:

?? TS 29.207 on Policy control over Go interface in document **NP-020167** and

?? TS 29.208 on end-to-end QoS signalling flows in document **NP-020166**.

CN3 is of the opinion that these specifications are 85% complete and ready for approval. Some minor issues still need discussion and clarifications, some together with SA2. Also, some functions defined in stage 2 still have to be detailed in stage 3. Here, CN3 has followed SA2's guide lines for the prioritisation of the needed work.

CN#15 has forwarded two LS by ITU-T SG11 on end-to-end QoS to CN3 for further considerations. CN3 has found that the work mentioned in the LS concentrates on a general framework for end-to-end QoS in a exemplary BICC environment. So, CN3 has not identified direct impact on our work for Rel-5. However, the mapping mechanisms could be of interest and should be investigated in greater detail.

## 4. Work Items Rel-5 or later

### 4.1 Interworking between the IM Subsystem and CS networks

The standardisation of the IMS Mc interface was added as a new objective to the existing work item. The work split between CN3 and CN4 regarding the IMS Mc interface was agreed between these groups: While CN3 will define signalling procedures for IMS Mc and their interaction with horizontal ISUP/BICC or SIP signalling in TS 29.163, CN4 will detail these procedures and map them to H.248

within a new TS. Furthermore, the standardisation of the interworking between AMR/IuFP and AMR/RTP was added as objective to this work item.

The updated work item description sheet is contained in document **NP-020165**.

CN3 was mandated by the CN#15 plenary to investigate a possible split of the work item into Rel-5 and Rel-6 parts.

The current situation is that several issues remain to be solved for this work item and the related TS 29.163, e.g.:

?? the ITU-T interworking (SIP-BICC/ISUP) specifications

?? 3GPP specific adaptations to the general ITU-T interworking (SIP-BICC/ISUP) specifications

?? Clause 9: MGCF – IM-MGW Interaction (IMS Mc interface), including the definition of a new H.248 package

?? IMS – CS user plane protocol interworking for AMR

This means that the main part of the work to specify this interworking cannot be finalised within the Rel-5 timeframe.

**CN3 have agreed that it is not possible to split this WID into a Rel-5 and a Rel-6 separate parts**

CN3 also decided not to send TS 29.163 to plenary for approval for Rel-5, since substantial work is still outstanding. This was not an unanimous decision, some companies raised up concerns but without convincing technical arguments. However, the majority of the meeting felt that there are enough technical arguments that this specification is not yet mature enough for approval. Consequently CN3 recommends that TS 29.163 should not be approved for Rel-5.

## **4.2 Interworking between the IM Subsystem and IP networks**

CN3 concentrates on the work for the TR on interworking between the 3GPP SIP profile and external SIP. Offline discussions took place between the interested parties to discuss the scope of this TR and related questions. The latest version of this TR was only noted in CN3, due to pending CN1 decisions, and now requires an update to reflect these decisions. CN3 expects to complete this WI in the Rel-6 timeframe.

## **4.3 Multimedia Broadcast Multicast Services (MBMS)**

CN#15 has forwarded the work item description sheet on MBMS the CN3 and other CN WGs in order to check the impact on their work. At the moment CN3 is not able to provide any response because of the lack of sufficient stage 2 information. CN3 has only identified the GGSN that could be impacted. But this has still to be confirmed by some more detailed investigations.

# **5. Output Documents**

## **5.1 Change Request**

CN Doc #	CN3 Doc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	Vers	WI
NP-020169	N3-020284	Service change and fallback for UDI/RDI multimedia calls	27.001	71	7	C	Rel-5	5.1.0	SCUDIF
NP-020169	N3-020311	Service change and fallback for UDI/RDI multimedia calls	29.007	46	6	C	Rel-5	5.1.0	SCUDIF
NP-020170	N3-020291	Corrections to the 3GPP RADIUS attributes	09.61	A035		F	R97	6.7.0	GPRS
NP-020170	N3-020292	Corrections to the 3GPP RADIUS attributes	09.61	A036		A	R98	7.6.0	GPRS
NP-020170	N3-020293	Corrections to the 3GPP RADIUS attributes	29.061	053		A	R99	3.1.0	GPRS

CN Doc #	CN3 Doc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	Vers	WI
NP-020170	N3-020294	Corrections to the 3GPP RADIUS attributes	29.061	048	1	A	Rel-4	4.4.0	GPRS
NP-020170	N3-020295	Corrections to the 3GPP RADIUS attributes	29.061	054		A	Rel-5	5.1.0	GPRS
NP-020170	N3-020350	Clarifications on the RADIUS flows	09.61	A037	1	F	R97	6.7.0	GPRS
NP-020170	N3-020351	Clarifications on the RADIUS flows	09.61	A038	1	A	R98	7.6.0	GPRS
NP-020170	N3-020352	Clarifications on the RADIUS flows	29.061	047	1	A	R99	3.1.0	GPRS
NP-020170	N3-020353	Clarifications on the RADIUS flows	29.061	055	3	A	Rel-4	4.4.0	GPRS
NP-020170	N3-020354	Clarifications on the RADIUS flows	29.061	056	1	A	Rel-5	5.1.0	GPRS
NP-020171	N3-020328	Stateless Address autoconfiguration of IPv6 terminals	29.061	044		C	Rel-5	5.1.0	TEI
NP-020171	N3-020477	Address autoconfiguration of IPv6 terminals and IPv6 update	29.061	059	-	F	R99	3.9.0	TEI
NP-020171	N3-020478	Address autoconfiguration of IPv6 terminals and IPv6 update	29.061	060	-	A	Rel-4	4.4.0	TEI
NP-020171	N3-020460	Address autoconfiguration of IPv6 terminals and IPv6 update	29.061	044	4	A	Rel-5	5.1.0	TEI
NP-020171	N3-020505	IPv6 Address autoconfiguration	27.060	018	-	F	R99	3.5.0	TEI
NP-020171	N3-020506	IPv6 Address autoconfiguration	27.060	019	-	A	Rel-4	4.0.0	TEI
NP-020171	N3-020504	IPv6 Address autoconfiguration	27.060	017	3	A	Rel-5	5.0.0	TEI
NP-020172	N3-020304	Multislot clarification	27.001	077	1	F	Rel-5	5.1.0	CS_DATA
NP-020172	N3-020281	Clarification to VMSC/HLR logic for modem/facsimile calls	29.007	048	1	F	Rel-5	5.1.0	CS_DATA
NP-020172	N3-020312	Signalling of FTM calls	29.007	050	2	F	R99	3.9.0	CS_DATA
NP-020172	N3-020313	Signalling of FTM calls	29.007	051	1	A	Rel-4	4.3.0	CS_DATA
NP-020172	N3-020314	Signalling of FTM calls	29.007	052	1	A	Rel-5	5.1.0	CS_DATA

## 5.2 Liaison Statements

The Liaison Statements are contained in **NP-020163**.

Tdoc #	Tdoc Title	LS to	LS cc	Attachment
N3-020316	Reply LS on Service change and fallback for UDI/ RDI multimedia calls	SA1		N3-020315
N3-020356	LS on Multiple Codecs	CN1, SA2, SA5		none
N3-020357	LS on "Working assumptions in CN3"	SA2		none
N3-020360	Re. LS on Access dependent services and features for GERAN lu mode	SA1		none
N3-020361	LS on "IPv6 update of stage 3 specifications"	SA2	CN, CN1, CN2, SA3, SA5, T, T1,T2	N3-020328
N3-020362	LS on Mapping rules for authorisation	SA2	CN1	N3-020363
N3-020486	LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	SA2, CN1		none
N3-020507	LS on distribution of IMS charging ID (ICID) from PCF/P-CSCF to GGSN	SA5	SA2	none
N3-020510	Liaison statement on the Go Interface	SA2		none

### 5.3 Work Items

The Work Item Description sheets are contained in the following documents:

Tdoc #	Tdoc Title
NP-020164	Revised WID for Service Change and UDI Fallback
NP-020165	Revised WID on interworking between IMS and CS

CN3 asks CN#16 to approve these revised WIDs.

### 5.4 TRs and TSs

CN3 provides the following specifications to CN#16 asking for approval.

Tdoc #	Number	Version	Rel	Title	Rapporteur	Company
NP-020168	23.172	1.0.0	Rel-5	Technical Realisation of Circuit Switched (CS) Multimedia Service; UDI/RDI Fallback and Service Modification	Rune Werner Wiik	Ericsson
NP-020166	29.208	1.4.0	Rel-5	End-to-end QoS signalling flows	Daisuke Yokota	Lucent
NP-020167	29.207	1.5.0	Rel-5	Policy control over Go interface	Daisuke Yokota	Lucent

## 6. Next Meetings

Next CN3 meetings are scheduled as follows:

Meeting	Date	Location, Host
TSG-CN3#24	29th July - 2nd August 2002	Helsinki, Finland, Elisa, Ficora, the Finnet Group, Nokia, Sonera of Finland
TSG-CN3#25	23 <sup>rd</sup> - 27 <sup>th</sup> September 2002	USA
TSG-CN3#26	11 <sup>th</sup> - 15 <sup>th</sup> November 2002	Thailand

## 7. Acknowledgements

I would like to thank the delegates for their contribution to the meetings, The North American friends of 3GPP and Ericsson L.M. for hosting the meetings. Special thanks to David Boswarthick, MCC, for the support during and between the meetings. Further I would like to thank Daisuke Yokota, Lucent, for his work as rapporteur of TS 29.207 and 29.208. He chaired a lot of drafting and editing sessions to get these specifications complete.