3GPP TSG CN Plenary
Meeting #10, Bangkok, Thailand
6th – 8th December 2000

Tdoc NP-000600

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Title: **Status Report CN3**

Agenda item: **6.3**

Document for: **APPROVAL**

1. General

1.1 Last Meetings

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

- CN3#13   16.10. - 20.10.00   in Stuttgart, Germany   hosted by Alcatel
- CN3#14   14.11. - 16.11.00   in Sophia Antipolis, France   hosted by ETSI

The reports are contained in **NP-000601** and **NP-000602**. This status report summarises the results.

1.2 Administrative Work

CN3 has reviewed and commented the project plan at each working group meeting. These comments have been sent to MCC.

CN3 meeting dates for 2001 have been aligned with the meeting dates of other CN WGs. It seems that we need in January joint sessions with CN1 concerning SIP and RTCP and with CN4 concerning the Mc interface.

New rapporteur for 09.61 / 29.061 became Achim Braun from Alcatel. David Sanders from Vodafone became rapporteur of the new stage 3 specification for the Nb interface 29.415. A rapporteur for 07.60 / 27.060 is still required.

There were no IPR disclosures in CN3.

2. R99 Work Items

2.1 Technical Enhancements and Improvements

CN3 presents change requests against 04.21 and 08.20 to remove the 1200/75 bit/s data rates and to clean-up these specifications.

Also change requests against 03.10 and 27.001 provide the additional text for the 32 kbit/s UDI/RDIservice. A package of CRs introducing 32 kbit/s UDI/RDI into other specifications was approved at the last CN plenary, but CN3 has since then discovered that further changes were needed.

The CRs for T.E.I. are presented in **NP-000604.**

2.2 Circuit Switched Bearers in UMTS

Inconsistencies between some specifications concerning the range of certain circuit switched bearer services were identified, e.g., concerning the provision of the48 kbit/s transparent service 3G. Unclear or incomplete presentations of the information are the reason for misinterpretations. CN3 started work to provide a better presentation of the information. Also a discussion with SA1 on this issue was initiated. The details are summarised in the Liaison Statement N3-000607 that can be found in **NP-000603**.

Problems with handover for the 56 kbit/s transparent case were found. Depending on the used channel codings three different configurations may provide a service of 56 kbit/s in GSM. One of them needs the IWF in the MSC, the other as well as the UMTS solution do not need the IWF. A handover between these two groups cannot be provided. CN3 presents CRs to 04.21, 23.910, 27.001 and 29.007 that clarify these restrictions (**NP-000605**).

3. Rel-4 / Rel-5 Work

3.1 Circuit Switched Bearer Services in UMTS

SA1 has removed the Bearer Service 30 non-transparent (BS 30 NT) for Rel-4 onwards. This has an impact on specifications under CN3's responsibility. Change Requests are presented in document **NP-000606** for the removal of BS 30 NT.

However, it is still unclear to CN3 whether the GSM Fax NT service can also be removed. The GSM Fax NT specifications do not mention that they use the BS 30 NT, but in fact, BS 30 NT and GSM fax NT use the same components, e.g. the L2RBOP protocol. CN3 has asked SA1 to give a clarification.

3.2 Service modification without pre-notification

The companies contributing to this WI have realised that they need some kind of pre-notification to provide this service in a proper way. The proposed mechanisms have not got any support by CN3. Several companies have proposed to re-use existing mechanisms.

In the last CN3 meeting the supporting companies explained that they will no longer require such a service. A service modification without pre-notification between speech and facsimile and between speech and data (modem) is no longer considered as a required service. The service modification between speech and multimedia will be completed with pre-notification in the scope of the Work Item "Circuit switched multimedia swap and fall back".

CN3 has noted this statement, but is of the opinion that changes of the requirements must come from SA1. The contributing companies were requested to clarify the requirements within SA1.

3.3 Circuit switched multimedia swap and fall back

NEC and NTT DoCoMo presented a proposal for the modification procedure between speech and multimedia. CN3 recommended to discuss these proposals in CN4 because the document addressed a lot of topics that CN4 is responsible for.

3.4 Text telephony

It was reported that at the moment the favoured solution is based on codecs that can transfer speech and data. Such a solution has no impact on the MSC/IWF. So, it is expected that there is nothing to contribute by CN3.

3.5 Interworking between the IM Subsystem and CS networks

There were no input documents to the meetings.

3.6 Interworking between the IM Subsystem and IP networks

CN3's WID sheet was not approved at the last CN plenary and was sent back to CN3 for further improvement. Comments were made to CN3 by those companies who objected to the WID sheet at the CN#9 meeting. The discussion in CN3 has shown that most of the comments relate to the work on Quality of Service, the new work area assigned to CN3 for the IM Subsystem. For QoS we expect a separate WID sheet. The work on QoS for the IM Subsystem is still ongoing in SA2. So, CN3 has to synchronise it's work with SA2's work. A LS was sent to SA2 to initiate this discussion. Depending on the results of this discussion we expect a WID sheet for QoS in CN3. Only at this time will it be possible to identify the remaining work needed for interworking between IM Subsystem and IP networks.

3.7 Bearer independent circuit switched Core Network

First contributions have been made for the stage 3 specification (29.415) of the Nb interface., i.e., the protocol between the Media Gateways. It is proposed to design a protocol Nb UP (Nb user plane protocol) similar to the Iu UP protocol and that can be located on top of AAL2, and, optionally, on top of RTP over UDP. NbUP on GTP-U is contingent on the split of the SGSN and GGSN.

3.8 IWF at the CN Border to fixed network

This new Work Item was not agreed in CN3 because of formal reasons. Although there are now four supporting companies, none of the companies was willing to provide a WI rapporteur.

3.9 QoS

There were no input documents to the meetings. This work still requires a WID sheet.

4. Output Documents

4.1 Change Request

TDoc #	Spec	Rel	CR #	Rev	Tdoc Title	CAT	C_Version	N_Version	WI
N3-000535	03.10	R99	A013		TCH/F32.0 reference models	F	8.2.0	8.3.0	T.E.I
N3-000537	04.21	R99	A020		Removal of the 1200/75 bit/s data rate and general clean-up	F	8.2.0	8.3.0	T.E.I
N3-000539	08.20	R99	A009		Removal of the 1200/75 bit/s data rate and general clean-up	F	8.2.0	8.3.0	T.E.I
N3-000588	23.910	R99			Handover for 56kbit/s	F	3.2.0	3.3.0	CS Bearers
N3-000591	27.001	R99			Correction for 32 kbit/s UDI/RDI	F	3.6.0	3.7.0	T.E.I
N3-000592	27.001	Rel-4			Correction for 32 kbit/s UDI/RDI	A	4.1.0	4.2.0	T.E.I
N3-000595	04.21	R99			Handover for 56kbit/s	F	8.2.0	8.3.0	CS Bearers
N3-000596	29.007	Rel-4			Removal of BS 30 NT	C	4.0.0	4.1.0	CS Bearers
N3-000600	03.10	Rel-4			Removal of BS 30 NT	C	8.2.0	4.0.0	CS Bearers
N3-000601	04.21	Rel-4			Removal of BS 30 NT	C	8.2.0	4.0.0	CS Bearers
N3-000602	29.007	R99			Handover for 56kbit/s	F	3.6.0	3.7.0	CS Bearers
N3-000603	29.007	Rel-4			Handover for 56kbit/s	A	4.0.0	4.1.0	CS Bearers
N3-000604	23.910	Rel-4			Handover for 56kbit/s	A	4.0.1	4.1.0	CS Bearers
N3-000605	27.001	Rel-4			Removal of BS 30 NT	C	4.1.0	4.2.0	CS Bearers
N3-000606	27.003	Rel-4			Removal of BS 30 NT	C	3.5.0	4.0.0	CS Bearers
N3-000614	27.001	Rel-4			Handover for 56kbit/s	A	4.1.0	4.2.0	CS Bearers
N3-000615	27.001	R99			Handover for 56kbit/s	F	3.6.0	3.7.0	CS Bearers

4.2 Liaison Statements

The Liaison Statements are contained in NP-000603.

TDoc #	Tdoc Title	LS to	LS cc	Attachment
N3-000542	Problems in understanding with SA1's CRs to 22.001 for SMWOP	SA1	-	none
N3-000545	Response LS on Service Modification without pre-notification	SA1, SA2	-	S2-001518

N3-000546	Request for requesting clarification on QoS work distribution	SA2	-	N3-000512
N3-000549	Intersystem handover problem	CN1, CN4	-	N3-000497
N3-000599	Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases	SA1	-	none
N3-000607	CS Bearers	SA1	RAN3	none
N3-000610	RTCP responsibility	CN1	-	none
N3-000613	Proposed enhancements to Mc specification	CN4, RAN3		N3-000563

4.3   Work Items

None

4.4   New TRs TSs

None

5. Next Meetings

Next CN3 meetings are scheduled as follows:

Meeting	Date	Location, Host
TSG-CN3#15	15th – 19th Jan 2001	Ericsson, Beijing
TSG-CN3#16	26th Feb–2nd Mar 2001	ETSI, Sophia Antipolis
TSG-CN3#17	14th – 18th May 2001	NA Friends, USA
TSG-CN3#18	9th – 13th July 2001	Mannesmann, Germany
TSG-CN3#19	15th – 19th Oct 2001	Possibly UK
TSG-CN3#20	26th – 30th Nov 2001	Host required

6. Acknowledgements

I would like to thank the delegates for their contribution to the meetings, Alcatel and ETSI for hosting the meetings and David Boswarthick, MCC for the support during and between the meetings.