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1. General	2
1.1 Last Meetings	2
1.2 Administrative Work	2
2. R99 Work Items	2
2.1 Circuit Switched Bearers in UMTS.....	2
2.2 GPRS	2
2.3 HSCSD	3
2.4 Technical Enhancements and Improvements	3
3. Rel-4 Work	3
3.1 Circuit switched multimedia swap and fall back.....	3
3.2 Real Time Facsimile.....	3
3.3 Service modification without pre-notification.....	3
3.4 Global text telephony	3
3.5 Bearer independent circuit switched Core Network.....	3
3.6 IWF at the CN Border to fixed network	4
3.7 Technical Enhancements and Improvements	4
4. Rel-5 Work	4
4.1 Interworking between the IM Subsystem and CS networks.....	4
4.2 Interworking between the IM Subsystem and IP networks	4
4.3 QoS	4
5. Output Documents.....	5
5.1 Change Request	5
5.2 Liaison Statements	6
5.3 Work Items	6
5.4 New TRs TSs.....	6
6. Next Meetings	6
7. Acknowledgements	7

1. General

1.1 Last Meetings

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

- CN3#15 15.01. - 19.01.01 in Beijing, China hosted by Ericsson
 - with joint session with CN1 on work split for IMS and
 - with joint session with CN4 on Bearer Independent Circuit Switched Core Network
- CN3#16 26.02. - 02.03.01 in Sophia Antipolis, France hosted by ETSI
 - with joint session with CN1 on TS 24.228 and
 - with joint session with CN4 on Bearer Independent Circuit Switched Core Network

The CN3 meeting reports are contained in **NP-010031** (Beijing) and **NP-010032** (Sophia). This status report summarises the results for these two meetings.

1.2 Administrative Work

CN3 has reviewed and commented the project plan at each working group meeting. These comments have been sent to MCC. The comments can be found in document NP-010035.

The existing CN3 Chair was re-elected for another term of 2 years by acclamation. There were no nominations for Vice Chairs.

Discussions took place on the balance of the workload between the CN WGs. CN3 and CN4 decided to move the responsibility for GTP to CN3. The updated Terms of Reference of CN3 are provided in document **NP-010034** for approval by CN#11.

CN3 has reviewed the list of specifications in its responsibility and has decided which specifications should be transferred to Rel-4. The results have been reported to MCC.

2. R99 Work Items

2.1 Circuit Switched Bearers in UMTS

Document **NP-010042** contains change requests aligning the scope of bearer services with TS 22.002 recently updated by SA1.

Further change requests for circuit switched bearer services are summarised in document **NP-010043**. It contains corrections for TS 27.001 and TR 23.910

- related to the parameters in the RAB assignment request message to avoid allocation of more resources than requested by the user.
- to allow the use of higher modem speeds (addition of WAIUR 57.6 kbit/s for support of V.90 modem) and
- to remove inconsistencies related to synchronous transparent bearer services at 56 kbit/s causing particular handover problems.

2.2 GPRS

TSG-SA#8 decided to remove the IHOSS (Internet Hosted Octet Stream Service) from R98 and onwards (SP-000197). Furthermore, since the 'Modem and ISDN Interworking' WI has previously been deleted there is also no need anymore for the Octet Stream Protocol (OSP). Document **NP-010044** contains CRs that align the targeted specifications accordingly.

Change requests on the DHCP lease renewal procedure were agreed after a long debate. These CRs against TS 27.060 and 29.061 are also contained in document **NP-010044**.

2.3 HSCSD

The description of the downgrading procedure for HSCSD calls in TS 08.20 allowed different non-compatible implementations. The description was amended such that only related subcircuits in up- and downlink direction may be removed when downgrading a HSCSD call. Change requests are in document **NP-010040**.

2.4 Technical Enhancements and Improvements

Document **NP-010041** contains change requests mandating A-TRAU' frames, which are used on the link between a 3G MSC and a 2G MSC after handover, to be octet aligned with PCM time slots. Also the adaptation of the RLP transmission frequency to the AIUR was clarified.

Other change requests remove a restriction for call set-up for mobile terminated calls using single-numbering scheme, which could cause call-backs from remote access servers to fail. An MS may now set-up a UDI call even if it has not received Bearer Capability information from the MSC.

3. Rel-4 Work

3.1 Circuit switched multimedia swap and fall back

CN3 proposes to delete this work item due to the lack of input.

3.2 Real Time Facsimile

SA1 has clarified that CS real time facsimile (TS 61 / 62) will exist from Rel-4 onwards

- In GSM in transparent mode only (as in TS 03.45 / 43.045)
- In UMTS in non-transparent mode only (as in TS 23.146).

This means that Fax NT is removed from GSM from Rel-4. This has an impact on specifications under CN3's responsibility. Change Requests are presented in document **NP-010046** for the removal of Fax NT in GSM. As a consequence there is no need to transfer TS 03.46 into Rel-4.

The work on TS 23.146 was already finished early in 2000. With this the work on RT facsimile is completed.

3.3 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. Since they have explained that they will no longer require such a service and that they want to come up with a new WI, CN3 has asked these companies to clarify the requirements in SA1.

CN3 proposes to delete this WI due to lack of input and interest.

3.4 Global text telephony

In SA2, two possible solutions are studied. It is still unclear whether CN3 will not need to contribute to this WI.

CN has no own WID for this work. Its work is covered by a WID in SA4.

3.5 Bearer independent circuit switched Core Network

All contributions related to this work item have been handled in joint sessions with CN4. CN3 provides two new specifications for the Nb interface, i.e. protocol between the Media Gateways. These are the stage 3 specifications

- of the Core Network Nb interface User Plane protocol (TS 29.415), in **NP-010037**, and

- of the Core Network Nb Data Transport and Transport Signalling (TS 29.414), in **NP-010036**.

The protocol and the document structure chosen are similar to the Iu UP protocol and its specification. Only differences to Iu are specified. CN#11 is asked to approve these specifications.

Related change requests to introduce the Nb User Plane protocol in TS 29.007 and TR 23.910 are provided in document **NP-010045**.

CN3 considers the work as completed.

3.6 IWF at the CN Border to fixed network

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

Although not yet approved, a corresponding entry can be found in the project management plan. Therefore, CN3 proposes to delete this work item.

3.7 Technical Enhancements and Improvements

The removal of the BS 30 NT, the packet access service and the S reference point in the MS by other WGs has some impact on specifications under CN3's responsibility. The change requests in document **NP-010047** provide related changes. This document contains also some editorial change requests.

4. Rel-5 Work

4.1 Interworking between the IM Subsystem and CS networks

Contributions for the provision of the multimedia service were made in a joint session with CN1. Given that there had been discussions on interworking in SA, CN1 and CN3 raised the question whether interworking between IMS and CS networks is still required. SA and SA1 were asked for guidance. SA1 responded in an LS that interworking between IMS and CS networks is only required for basic voice calls. CN3 has updated the work item description sheet accordingly. It is presented in document **NP-010038** to CN#11 for approval.

The work on this WI will result in a separate specification TS 29.162. The structure of this new specification was discussed in CN3. Contributions are expected to following meetings.

4.2 Interworking between the IM Subsystem and IP networks

After long discussions on the scope of this work item, it was possible to come to a version agreed by CN3. This is presented in document **NP-010039** to CN#11 for approval.

The work on this WI will result in a separate specification TS 29.163. The structure of this new specification was discussed in CN3. Contributions are expected to next meetings.

4.3 QoS

There were no input documents to the meetings. This work still requires a WID sheet. SA2 is willing to present the status of its work to CN3 during the meeting CN3#17 (May).

5. Output Documents

5.1 Change Request

CN Doc #	CN3 Doc #	Spec	Rel	CR #	Rev	Tdoc Title	CAT	C_Vers	N_Vers	WI
NP-010040	N3-010096	08.20	R96	A010		Correction to downgrading procedure for HSCSD	F	5.3.0	5.4.0	HSCSD
NP-010040	N3-010097	08.20	R97	A011		Correction to downgrading procedure for HSCSD	A	6.0.0	6.1.0	HSCSD
NP-010040	N3-010098	08.20	R98	A012		Correction to downgrading procedure for HSCSD	A	7.0.1	7.1.0	HSCSD
NP-010040	N3-010099	08.20	R99	A013		Correction to downgrading procedure for HSCSD	A	8.3.0	8.4.0	HSCSD
NP-010041	N3-010166	23.910	R99	024		A-TRAU' synchronization	F	3.3.0	3.4.0	TEI
NP-010041	N3-010167	23.910	REL-4	027		A-TRAU' synchronization	A	4.1.0	4.2.0	CORRECT
NP-010041	N3-010164	29.007	R99	036		A-TRAU' synchronization	F	3.7.0	3.8.0	TEI
NP-010041	N3-010165	29.007	REL-4	037		A-TRAU' synchronization	A	4.1.0	4.2.0	CORRECT
NP-010041	N3-010067	23.910	R99	020		A-TRAU' correction	F	3.3.0	3.4.0	TEi
NP-010041	N3-010068	23.910	REL-4	021		A-TRAU' correction	A	4.1.0	4.2.0	CORRECT
NP-010041	N3-010082	29.007	R99	034		A-TRAU' correction	F	3.7.0	3.8.0	TEI
NP-010041	N3-010083	29.007	REL-4	035		A-TRAU' correction	A	4.1.0	4.2.0	CORRECT
NP-010041	N3-010159	27.001	R99	056		Corrections for a mobile terminated call using the single numbering scheme	F	3.7.0	3.8.0	TEI
NP-010041	N3-010160	27.001	REL-4	057		Corrections for a mobile terminated call using the single numbering scheme	A	4.2.0	4.3.0	CORRECT
NP-010042	N3-010105	23.910	R99	023		RAB-assignment request (RAB parameter)	F	3.3.0	3.4.0	CS Data Bearers
NP-010042	N3-010107	23.910	REL-4	028		RAB-assignment request (RAB parameter)	A	4.1.0	4.2.0	CORRECT
NP-010042	N3-010104	27.001	R99	049		RAB-assignment request (RAB parameter)	F	3.7.0	3.8.0	CS Data Bearers
NP-010042	N3-010106	27.001	REL-4	050		RAB-assignment request (RAB parameter)	A	4.2.0	4.3.0	CORRECT
NP-010042	N3-010168	27.001	R99	046	1	Removal of blocking of higher modem speeds	F	3.7.0	3.8.0	CS Data Bearers
NP-010042	N3-010158	27.001	REL-4	047	1	Removal of blocking of higher modem speeds	A	4.2.0	4.3.0	CORRECT
NP-010042	N3-010147	27.001	R99	051		Removal of flow diagram B.1.3.1.7	F	3.7.0	3.8.0	CS Data Bearers
NP-010042	N3-010148	27.001	REL-4	052		Removal of flow diagram B.1.3.1.7	A	4.2.0	4.3.0	CORRECT
NP-010043	N3-010137	23.910	R99	022		Correction of service's scope	F	3.3.0	3.4.0	CS Data Bearers
NP-010043	N3-010149	23.910	REL-4	025		Correction of service's scope	A	4.1.0	4.2.0	CS Data Bearers
NP-010043	N3-010150	27.001	R99	054		Correction of service's scope	F	3.7.0	3.8.0	CS Data Bearers
NP-010043	N3-010151	27.001	REL-4	055		Correction of service's scope	A	4.2.0	4.3.0	CS Data Bearers
NP-010044	N3-010072	27.060	R99	014		DHCP lease renewal	F	3.4.0	3.5.0	GPRS
NP-010044	N3-010071	29.061	R99	015		DHCP lease renewal	F	3.4.0	3.5.0	GPRS
NP-010044	N3-010112	07.60	R98	A021		Removal of IHOSS and OSP	F	7.1.0	7.2.0	GPRS
NP-010044	N3-010113	09.61	R98	A016		Removal of IHOSS and OSP	F	7.2.0	7.3.0	GPRS
NP-010044	N3-010114	27.060	R99	015		Removal of IHOSS and OSP	A	3.4.0	3.5.0	GPRS
NP-010044	N3-010115	29.061	R99	016		Removal of IHOSS and OSP	A	3.4.0	3.5.0	GPRS
NP-010045	N3-010170	23.910	REL-4	026		Introduction of Nb UP	B	4.1.0	4.2.0	CSSPLIT
NP-010045	N3-010169	29.007	REL-4	039		Introduction of Nb UP	B	4.1.0	4.2.0	CSSPLIT
NP-010046	N3-010157	27.001	REL-4	048	1	Removal of Fax NT in GSM from Rel-4	C	4.2.0	4.3.0	RT Facsimile

CN Doc #	CN3 Doc #	Spec	Rel	CR #	Rev	Tdoc Title	CAT	C_Vers	N_Vers	WI
NP-010046	N3-010077	27.003	REL-4	008		Removal of FAX NT in GSM from REL-4	C	4.0.0	4.1.0	RT Facsimile
NP-010046	N3-010152	29.007	REL-4	038		Removal of Fax NT in GSM from Rel-4	C	4.1.0	4.2.0	RT Facsimile
NP-010046	N3-010076	43.010	REL-4	003		Removal of FAX NT in GSM from REL-4	C	4.0.0	4.1.0	RT Facsimile
NP-010047	N3-010080	43.010	REL-4	002		Additional changes for the removal of BS30NT and packet access	C	4.0.0	4.1.0	TEI_4
NP-010047	N3-010155	27.001	REL-4	058		Clarification of allowed combinations of FNUR and ACC values for the V.34 modem based 3G-H.324/M service.	D	4.2.0	4.3.0	TEI_4
NP-010047	N3-010156	27.001	REL-4	053		Editorial modifications of flow diagrams	D	4.2.0	4.3.0	TEI_4
NP-010047	N3-010081	43.010	REL-4	001		Removal of S Reference Point in MS	C	4.0.0	4.1.0	TEI_4
NP-010047	N3-010154	43.010	REL-4	001		Removal of speech model	D	4.0.0	4.1.0	TEI_4

5.2 Liaison Statements

The Liaison Statements are contained in **NP-010033**.

TDoc #	Tdoc Title	LS to	LS cc	Attachment
N3-010088	requesting clarification on interworking between IM domain and CS networks	SA, SA1	SA2, CN1	None

5.3 Work Items

TDoc #	Tdoc Title
NP-010038	Revised work item description for Interworking between IM CN subsystem and CS networks.
NP-010039	Revised work item description for Interworking between IM CN subsystem and IP networks

5.4 New TRs and TSs

TDoc #	Number	Owner	Rel	Title	Rapporteur	Company
NP-010037	29.415	CN3	Rel-4	Core Network Nb Interface User Plane Protocols	David Sanders	Vodafone
NP-010036	29.414	CN3	Rel-4	Core Network Nb Data Transport and Transport Signalling	Thomas Belling	Siemens
not provided to CN#11	29.163	CN3	Rel-5	Proposed Specification Outline - "Interworking between IM CN subsystem and IP networks"	Nigel Holland	BT
not provided to CN#11	29.162	CN3	Rel-5	Proposed Specification Outline - "Interworking between IM CN subsystem and CS networks"	Nigel Holland	BT

6. Next Meetings

Next CN3 meetings are scheduled as follows:

Meeting	Date	Location, Host
TSG-CN3#17	14 th – 18 th May 2001	NA Friends, USA
TSG-CN3#18	9 th – 13 th July 2001	D2, Germany
TSG-CN3#19	15 th – 19 th Oct 2001	Vodafone & BT, UK
TSG-CN3#20	26 th – 30 th Nov 2001	NA Friends, USA

7. Acknowledgements

I would like to thank the delegates for their contribution to the meetings, Ericsson and ETSI for hosting the meetings and David Boswarthick, MCC for the support during and between the meetings. I also would like to thank Achim Braun for his work as CN3 vice Chair. Unfortunately, he is not able to continue because he is starting in a new job. CN3 wishes him all the best on his future way.