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Title: **Status Report CN3**

Agenda item: **5.3.1**

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1. Last Meetings

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

- CN3#9 10.04. - 14.04.00 in Berlin, Germany hosted by Siemens
- CN3#10 22.05. - 26.05.00 in Oahu, Hawaii, USA hosted by the "North American Friend of 3GPP" including Aerial, AT&T, Bell South, Ericsson, Interdigital, Nokia, Nortel Networks and Omnipoint.

The main goal of these meetings were

- to finalise all outstanding R99 issues
- to complete the Work Item "Facsimile" for R00
- to review project management for R00

The reports are contained in NP-000216 and NP-000217. This status report summarises the results.

2. R99 Work Items

CN3 has dealt with the following R99 work items:

- Circuit switched bearers in UMTS
- Multimedia
- Service clean up R99
- Technical Enhancements and Improvements

2.1 *Circuit Switched Bearers in UMTS*

Most of the work on this Work Item has been finalised at CN#7. However, some outstanding issues, corrections and improvements were still necessary:

- The concept for handover between 2G and 3G MSCs related to the traffic channel protocols was already decided.
 - It was felt that it is still necessary to specify how the handover between 3G MSCs should be performed. Depending on the transport medium between the MSCs the user plane shall comply to Iu UP protocol in the case of ATM and to ATRAU' frame format in the case of a TDM interface.
 - Further, it was clarified that in the case of 56 kbit/s (RDI) or 64 kbit/s (UDI) a plain 64 kbit/s link is used between anchor MSC and visited MSC.
 - The current rules for combinations between the BC parameters WAIUR, ACC and mTCH were too restrictive for handover between 2G and 3G systems. The rules were revised.
- Another outstanding issue is the provision of lower user rates (i.e. • 14.4 kbit/s) for NT bearer services. It was found that a provision is possible with some restrictions (e.g. audio only in the scope of autobauding). S1 has confirmed this approach. A related CR against 29.007 was finally agreed.
- Some CRs improve the information needed for an appropriate RAB selection for the circuit switched bearer services.
- Also some corrections were necessary.

The Change Requests are contained in document NP-000223 (N3-000149, 151, 176, 183, 188, 189, 192, 196, 197, 208, 209, 215, 262, 263).

2.2 Multimedia

Two CRs were agreed by CN3, one to make the circuit switched multimedia solution also applicable for GSM and another one to correct the signalling mapping in the case of 33.6 kbit/s. These CRs are contained in NP-000227 (N3-000152, 205).

2.3 Service clean up R99

One CR against 27.001 was agreed to incorporate the removal of the Basic Packet Access service, decided by SA1. NP-000228 contains this CR (N3-000187).

2.4 Technical Enhancements and Improvements

With the transfer of 02.03 to 3GPP as 23.003 the notations of TS 61 and TS 62 for facsimile are now also applicable for 3G and not only for 2G (GSM). A CR against 29.007 considers this.

In co-operation with T2, the 3G TS 27.001, 27.002 and 27.003 were reviewed in order to adapt these specifications for UMTS. These CRs mainly implement the removal of the S interface in the terminal, the removal of X.21 procedure and the removal of the dedicated PAD service.

Another CR clarifies the behaviour of the visited MSC for the case the service indicated by the ISDN BC received from the gateway MSC differs from the service indicated by the PLMN BC received from the VLR.

Some additions were necessary related to the usage of the Iu UP protocol by the circuit switched bearer services, e.g.

- that Iu UP PDU type 1 has to be used for NT bearer services and
- the SDU sizes for T bearer services were determined.

These CRs are comprised in NP-000229 (N3-000136, 193, 213, 250, 261, 264, 265, 266, 268).

2.5 GSM Maintenance

There is no reason to have different rules for the split and combine function for HSCSD in the case of TCH/F9.9 and TCH/F14.4. A CR against GSM 04.21 agreed by CN3 harmonises these rules for GSM releases R96 – R99 (NP-000226 (N3-000144, 145, 146, 147)).

3. R00 Work

CN3 has dealt with the following R00 work items:

- Facsimile
- Service Modification without pre-notification

3.1 Facsimile

The work item "real-time non-transparent Fax" was postponed from R99 to R00. The specification 3G TS 23.146 was finalised and is presented in NP-000222 (N3-000277) as version 2.0.0. CN#8 is asked to approve this specification.

A CR against 27.001 was agreed allowing a WAIUR of 14.4 kbit/s for NT Fax in UMTS (NP-000225 (N3-000212)).

3.2 Service modification without pre-notification

At CN3#9 a work item description sheet for "Service modification without pre-notification between Speech and Fax and between Speech and Modem" was agreed. In the same week a similar work item was agreed in SA1 but with a wider scope. Therefore, at CN3#10 the work item was extended by including also a modification between Speech and Multimedia. This WI was agreed and is provided in NP-000220.

The service modification covered by this WI is only applicable to speech and 3.1 kHz audio services, but not to UDI. However, by using BICC this function can be provided for services based on UDI as well as on 3.1 kHz audio. So, an additional work item description sheet was agreed by CN3#10 providing "Service Modification without pre-notification using BICC" presented in NP-000221.

3.3 Administrative Issues

The "Terms of Reference" were revised and accommodated for R00. They are presented in NP-000219 for discussion and approval by CN#8.

The R00 F/BB/WT matrix for R00 was reviewed. The discussion and CN3's opinion is summarized in a document presented to the "Joint CN/S2 adhoc meeting on R00" taken place 14/15 June in Sophia Antipolis.

4. Output Documents

4.1 Change Request

Doc #	Spec	CR #	Rel	Title	CAT	Version	WI
N3-000144	04.21	A018	R99	Harmonization of the split/combine function,	A	8.0.0	GSM maintenance
N3-000145	04.21	A017	R98	Harmonization of the split/combine function,	A	7.0.3	GSM maintenance
N3-000146	04.21	A016	R97	Harmonization of the split/combine function,	A	6.0.0	GSM maintenance
N3-000147	04.21	A015	R96	Harmonization of the split/combine function,	F	5.6.1	GSM maintenance
N3-000149	23.910	001	R99	56 kbit/s T not applicable to UDI	F	3.0.0	CS Bearers in UMTS
N3-000188	23.910	002	R99	Residual bit error ratio in Transparent Data	F	3.0.0	CS Bearers in UMTS
N3-000196	23.910	003	R99	Adding the value of GBR of NT services	F	3.0.0	CS Bearers in UMTS
N3-000208	23.910	007	R99	Handover between 3G MSCs	F	3.0.0	CS Bearers in UMTS
N3-000209	23.910	006	R99	Handover (Clarification for 56 and 64 kbit/s)	F	3.0.0	CS Bearers in UMTS
N3-000262	23.910	004	R99	Indication of discontinuous transfer of NT data	C	3.0.0	CS Bearers in UMTS
N3-000151	27.001	015	R99	Missing Asymmetry preference indication in Table B.5.a	F	3.4.0	CS Bearers in UMTS
N3-000189	27.001	016	R99	Residual bit error ratio in Transparent Data	F	3.4.0	CS Bearers in UMTS
N3-000197	27.001	017	R99	Adding the value of GBR of NT services	F	3.4.0	CS Bearers in UMTS
N3-000183	27.001	020	R99	WAIUR in case of HO between UMTS and GSM	F	3.4.0	CS Bearers in UMTS
N3-000263	27.001	022	R99	Indication of discontinuous transfer of NT data	C	3.4.0	CS Bearers in UMTS
N3-000176	29.007	015	R99	Handover between 3G MSCs	F	3.4.0	CS Bearers in UMTS
N3-000192	29.007	016	R99	Rejection of lower user rates	F	3.4.0	CS Bearers in UMTS
N3-000215	29.007	019	R99	Handover between 3G MSCs (Clarification for 56 and	F	3.4.0	CS Bearers in UMTS

				64 kbit/s)			
N3-000152	27.001	018	R99	Application of multi media in GSM	F	3.4.0	Multimedia
N3-000205	29.007	021	R99	33.6 kbit/s for multimedia	F	3.4.0	Multimedia
N3-000212	27.001	023	R99	Indication of WAIUR 14.4kbit/s in case of UMTS FAX	F	3.4.0	Facsimile
N3-000187	27.001	019	R99	Removal of packet access service	F	3.4.0	R99 service clean-up
N3-000250	23.910	008	R99	Clarification of IuUP PDU Type for NT data	F	3.0.0	TEI
N3-000261	23.910	005	R99	Clarification of IuUP in Transparent	F	3.0.0	TEI
N3-000193	24.022	004	R99	RLP timer T4 in UMTS	F	3.2.0	TEI
N3-000264	27.001	021	R99	Adaptations for UMTS	C	3.4.0	TEI
N3-000265	27.002	004	R99	Adaptations for UMTS	C	3.3.0	TEI
N3-000266	27.003	005	R99	Adaptations for UMTS	C	3.3.0	TEI
N3-000136	29.007	017	R99	Fax	F	3.4.0	TEI
N3-000213	29.007	020	R99	ISDN TA function in case of bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI)	F	3.4.0	TEI
N3-000268	29.007	018	R99	Clarification of the VMSC behaviour in case of interworking	C	3.4.0	TEI

4.2 Liaison Statements

The Liaison Statements are contained in NP-000218.

DOC N3-00	Subject	To	Cc	Attachment
0170	Clarification on Transfer Delay value for the streaming class.	S2		None
0195	Bearer Modification without Pre-notification	N1, N4, T2		N3-000198
0280	Comments to 22.976 v1.4.0	S1		
0278	Service Modification without pre-notification	S1, S2		0271, 0269, 0279

4.3 Work Items

DOC	Subject	Release	1 st Respo.	2 nd Respo.
NP-000220	Service Modification without pre-notification between Speech and FAX / between Speech and Modem / between Speech and Multimedia	R00	N3	
NP-000221	Service Modification without pre-notification using BICC	R00	N3	

4.4 New TRs TSs

DOC	Number	Title	Version
NP-000222	23.146	Technical realisation of facsimile group 3 non-transparent	2.0.0

5. Next Meetings

Next CN3 meetings are schedules as follows:

- CN3#11 10/07/00 – 14/07/00 Ericsson, Oslo, Norway
- CN3#12 28/08/00 – 02/09/00 NA Friends of 3GPP, Seattle, USA
- CN3#13 16/10/00 – 20/10/00 Alcatel, Stuttgart, Germany
- CN3#14 13/11/00 – 17/11/00 no host