

Source: Chairman N3 + SMG3 WPD
norbert.klehn@icn.siemens.de

Title: **Status Report N3 + SMG3 WPD**

Agenda item: 5.3.1 + 5.3.2

Document for: Approval

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1. Last Meetings

Two N3¹ meetings and one ad hoc teleconference meeting on facsimile have been taken place since last TSG-CN plenary:

- N3#6 18. - 22.10.99 in Sophia Antipolis, France hosted by ETSI
- Ad hoc on facsimile 22.11.99 Teleconference between NTT DoCoMo and Alcatel
- N3#7 29.11. - 03.12.99 in Sophia Antipolis, France, hosted by ETSI

During N3#6 a joint session with S1 took place on issues related to bearer modifications without pre-notification.

The reports of these meetings are contained in NP-99421 and NP-99422.

2. Work Items

N3 has been working for the following work items:

- Circuit switched bearers in UMTS
- Facsimile
- Frame tunnelling mode (former asynchronous-synchronous HDLC conversion)
- PIAFS
- Service clean up R99
- Multimedia
- Modem and ISDN Interworking for GPRS
- Access to ISPs and Intranets – Wireless/Remote access to LANs
- GSM/GPRS maintenance
- Mobile IP
- Bearer modification without pre-notification

2.1 *Circuit Switched Bearers in UMTS*

A lot of open questions were clarified or decided:

- The transparent mode of RLC will be used for CS Data services.
- The values ranges of RAB parameters needed for CS Data services were specified.
- Concerning the use of Iu UP protocol modes the following decision was made:
 - The use of the transparent mode instead of the support mode of the Iu UP protocol for transparent data service was finally accepted.
 - It was felt that the support mode of the Iu UP protocol is necessary for non-transparent data service to enable a rate or flow control between MSC/IWF and RNC.
- It was decided to specify the interworking towards the ISDN based on Q.931 (05/98) instead of referring to EN 300 403 the successor of ETS 300 102 that has been used until now.
- The concept for handover between GSM and UMTS related to the traffic channel protocols is still under discussion. However, it was decided to introduce a new protocol / frame format between GSM and UMTS MSC instead of re-using the GSM A interface. But it is still open which format will be used, either
 - the ATRAU' frame format proposed by Alcatel or
 - Ericsson's proposal to use the HDLC framing or
 - Nokia's proposal to extend the ALL2 framing to the GSM MSC/IWF.

¹ N3 means always a joint 3GPP TSG CN WG3 / ETSI SMG3 WPD meeting.

Another outstanding issue is the provision of lower user rates for NT bearer services. The requirements have to be clarified. This is not yet specified.

A first draft of a stage 2 description on circuit switched data services in UMTS can be presented as TR 23.910 in NP-99426. Related Change Requests are provided in NP-99439.

2.2 Facsimile

The “real-time” solution for Fax based on the GSM Fax non-transparent (GSM 03.46) is still under discussion. NTT DoCoMo and Alcatel have irreconcilable points of view concerning the changes needed in GSM 03.46 to update this specification for UMTS (23.046).

Alcatel wants to keep the GSM 03.46 unchanged. Based on their experience due to the evaluation of Fax NT in 1992 they do not see the need to change anything. NTT DoCoMo wants to adapt this specification according to their fax solution running in PDC system.

It was not possible to find an agreement on technical level. Also an ad hoc teleconference meeting did not brought any progress. So, it was decided to provide separate solutions for GSM and UMTS. GSM 03.46 will be further maintained in GSM, whereas a UMTS solution will be specified in TS 23.146.

A Change Request updating GSM TS 03.46 to get 3G TS 23.146 is provided in NP-99435. This document contains also other Change Requests needed for the specification of real-time NT facsimile in UMTS.

2.3 Frame tunnelling mode (former asynchronous-synchronous HDLC conversion)

This Work Item is finished. Change Requests are contained in NP-99430.

2.4 PIAFS

This Work Item is finished. Change Requests are contained in NP-99437. The PIAFS specification is public available (N3-99306).

2.5 Service clean up R99

The clean up for data services in R99 has some impact on N3's specifications. Change Requests are available in NP-99436. A CR against 23.054 (Shared Interworking Function) is still outstanding.

End the end of our last meeting we have received the information that S1 has also deleted the service BS 30 NT. The impact on N3's specifications has to be checked. However, an upgrade of 23.070 and 29.006 is no more necessary because they have to be removed from the list of 3G specifications. A version 8 of the related GSM specifications 03.70 and 09.06 are also no more needed.

2.6 Multimedia

N3 has identified 3 steps for the specification of circuit switched multimedia:

- The 1st step enables basic multimedia calls.

- The 2nd step realises a more sophisticated call set-up, where the IWF provides fall back mechanisms according to the capabilities of the remote terminal. Fall back should be provided from UDI to audio to speech.
- The 3rd step allows a swap between multimedia and speech depending on the resources available in the PLMN.

The 1st step is specified. NP-99434 comprises the Change Requests. N3 still wants to specify the 2nd step R99. The 3rd step should be specified in R00. A concerning Work Item Description Sheet is provided in NP-99424.

2.7 Modem and ISDN Interworking for GPRS

This Work Item can be deleted based on S1's advice because of missing requirements for such a service.

2.8 Access to ISPs and Intranets – Wireless/Remote access to LANs

This Work Item is finished. Change Requests are contained in NP-99429.

2.9 GSM/GPRS maintenance

The problem where the RLP REMAP procedure will not complete successfully when DTX is active was solved. Change Requests are contained in NP-99438.

GSM 09.07 / 3G TS 29.007 have to be improved because the value of 32 kbit/s for the intermediate rate parameter was missing in the mapping tables. Change Requests are contained in NP-99433.

Although GPRS Releases 97 and 98 are frozen, editorial Change Requests against 07.60/27.060 and 09.61/29.061 were seen to be necessary to improve the specifications regarding the description of PDP Context activation. These Change Requests are contained in NP-99431.

2.10 Mobile IP

A Change Request against 29.061 was approved introducing the possibility accessing Intranets/ISPs with Mobile IPv4. This CR is contained in NP-99432.

2.11 Bearer modification without pre-notification

In the joint N3/S1 session during N3#6 meeting, S1's requirements on candidates for bearer modification without pre-notification were clarified. N3 came to the conclusion that these requirements can be technical realised, but its specification is very unlikely for Release 1999. S1 was informed on the results by a Liaison Statement (see NP-99423).

3. Administrative issues

3.1 Inter-Group Co-ordination

N3 has nominated representatives to all IGCs where necessary. Contributions to the project planes are made.

3.2 Transfer of Specifications

Depending on the recent decision by S1 to remove BS 30 NT and depending on the current situation for facsimile standardisation the following changes are proposed:

23.046 Facsimile non-transparent

Separate specifications for GSM and UMTS are necessary.

⇒ 23.046 has to be removed, because it is not the successor of 03.46. Instead of this, a 23.146 is necessary for UMTS. The GSM solution will be specified in 03.46, but version 8.0.0 is not necessary.

23.070 Routing of calls from/to PDN and PLMN

29.006 Interworking with PSPDNs

not required to be maintained after R98 and should not be transferred to 3GPP because the circuit switched Interworking with PSPDNs via ISDN is no longer required. – Maintenance of 09.06 and 03.70 up to R98 still in N3.

⇒ 23.070 and 29.006 have to be removed, 03.70 and 09.04 version 8.0.0 are not necessary.

TSG-N is ask to endorse this modification and to request MCC to realise this.

4. Output Documents

4.1 Change Request

N3 tdoc	SPEC	To Ver	CR#	CAT.	Rel.	W. Item	Subject
N3-99351	03.10	8.0.0		C	R99	Service Clean up R99	Service clean-up for Release 99
N3-99352	27.001	3.2.0		C	R99	Service Clean up R99	Service clean-up for Release 99
N3-99353	27.002	3.1.0		C	R99	Service Clean up R99	Service clean-up for Release 99
N3-99354	27.003	3.1.0		C	R99	Service Clean up R99	Service clean-up for Release 99
N3-99355	29.007	3.2.0		C	R99	Service Clean up R99	Service clean-up for Release 99
N3-99409	04.22	5.5.1		F	R96	T.E.I	REMAP PROCEDURE IN RLP
N3-99414	04.22	6.1.0		A	R97	T.E.I	REMAP PROCEDURE IN RLP
N3-99415	04.22	7.0.1		A	R98	T.E.I	REMAP PROCEDURE IN RLP
N3-99428	24.022	3.1.0		A	R99	T.E.I	REMAP PROCEDURE IN RLP
N3-99431	09.07	5.9.0		F	R96	HSCSD	Intermediate rate
N3-99456	09.07	6.1.0		A	R97	HSCSD	Intermediate rate
N3-99457	09.07	7.1.1		A	R98	HSCSD	Intermediate rate
N3-99458	29.007	3.2.0		A	R99	HSCSD	Intermediate rate
N3-99497	27.001	3.2.0		B	R99	FTM	Introduction of FTM
N3-99429	29.007	3.2.0		B	R99	FTM	Introduction of FTM
N3-99496	27.001	3.2.0		B	R99	Support of PIAFS in UMTS	DETAILED INFORMATION OF PIAFS IN UMTS
N3-99488	27.003	3.1.0		A	R99	Real-time NTFAX in UMTS	Introduction of Asynchronous interface for Real-time non-transparent FAX
N3-99489	23.046	3.2.0		B	R99	Real-time NTFAX in UMTS	Introduction of Asynchronous interface for Real-time non-transparent FAX
N3-99492	24.022	3.1.0		B	R99	Updates for UMTS	INITIAL UPDATES FOR UMTS
N3-99504	29.007	3.2.0		B	R99	Updates for UMTS	INITIAL UPDATES FOR UMTS
N3-99495	27.001	3.2.0		B	R99	Updates for UMTS	INITIAL UPDATES FOR UMTS
N3-99507	29.007	3.2.0		B	R99	Support of PIAFS in UMTS	PIAFS and Negotiated parameter extension
N3-99502	27.001	3.2.0		B	R99	Multimedia	INTRODUCTION OF MULTIMEDIA
N3-99508	29.007	3.2.0		B	R99	Multimedia	INTERWORKING WITH H.324/I.
N3-99503	27.001	3.2.0		C	R99	Real-time non-transparent FAX in UMTS	INTRODUCTION OF ASYNCHRONOUS INTERFACE FOR REAL-TIME NON-TRANSPARENT FAX

N3-99396	29.061	3.1.0		B	R99	Access to ISPs Intranets Wireless/Remote access to LANs	ACCESS TO AN INTRANET/ISP WITH DHCP END TO END
N3-99461	07.60	6.4.0		D	R97	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99462	07.60	7.1.0		D	R98	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99463	27.960	3.2.0		D	R99	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99464	09.61	6.3.0		D	R97	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99465	09.61	7.1.0		D	R98	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99466	29.061	3.1.0		D	R99	GPRS	IPCP NEGOTIATION INTERWORKING AT THE MT FOR NON-TRANSPARENT IP
N3-99468	27.060	3.2.0		B	R99	GPRS	Parallel handling of multiple user application flows
N3-99469	27.060	3.2.0		D	R99	GPRS	CLARIFICATION ON THE TASKS OF THE MT FOR PDP TYPE PPP
N3-99470	29.061	3.1.0		D	R99	GPRS	CLARIFICATION ON THE PPP LCP NEGOTIATION FOR PDP TYPE PPP
N3-99481	29.061	3.1.0		B	R99	GPRS Mobile IP interworking	MOBILE IP ISSUES
N3-99482	29.061	3.1.0		C	R99	GPRS	ENHANCEMENT TO NUMBERING AND ADDRESSING TO INCLUDE THE APN
N3-99484	27.060	3.2.0		B	R99	GPRS	STREAMLINING
N3-99499	29.061	3.1.0		B	R99	GPRS	STREAMLINING

4.2 Liaison Statements

The Liaison Statements are contained in NP-99423.

DOC	Subject	To	Cc	Attachment
N3-99356	Open Issue on eventual deletion of packet services	S1		
N3-99359	Request for the provision of 32K service for Multimedia	R1		N3-99313
N3-99373	Bearer Modification without pre-notification	S1		
N3-99374	Re. to LS on Service/Baseline Implementation Capabilities	N1		
N3-99332	TSG_T2 SWG2 on Rejection on GPRS ATD modification	T2 SWG2		
N3-99333	Definition of active Communication for Packet Domain	T2 SWG5	R2	
N3-99334	Iu UP Protocol Framing of NAS User Data	N1		N3-99289
N3-99335	3G Services	S1		
N3-99491	LS on QoS Mapping	S2	N1	
N3-99474	Re. LS on UMTS and RAB parameter value ranges and granularity	S2	R2, R3	
N3-99514	HSCSD specifications	S1		
N3-99460	Definition of Active Communication for Packet Domain	R2, T2 SWG5		

4.3 Work Items

DOC	Subject	For	1 st Respo.	2 nd Respo.	Delivery
NP-99424	Complementary features to the CS Multimedia bearer service	R00	N3	N1	Dec 2000

4.4 New TRs TSs

DOC	Number	Titel
NP-99426	TR 23.910 v1.0.0	Circuit Switched Data Bearer Services

5. Next Meetings

Next N3 meetings are schedules as follows:

- N3#8 28/02/00 – 03/03/00 Sophia Antipolis, ETSI
- N3#9 10/04/00 – 14/04/00 no host
- N3#10 22/05/00 – 26/05/00 USA
- N3#11 03/07/00 – 07/07/00 no host
- N3#12 11/09/00 – 15/09/00 USA
- N3#13 17/10/00 – 19/10/00 no host
- N3#14 27/11/00 – 01/12/00 no host