NP-000216

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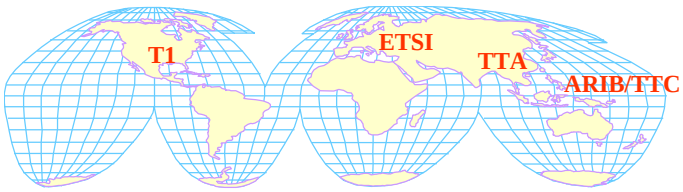

Third Generation Partnership Project

DRAFT REPORT v1.1.0

3GPP TSG-CN3 / ETSI SMG3 WPD

Meeting # 10

22nd – 26th May 2000
Oahu, Hawaii

Hosted by North American Friends of 3GPP

Chairman:	**Norbert Klehn, Siemens AG.** norbert.klehn@icn.siemens.de
Vice Chairman:	**Graham Heaton, Brand Communications.** grahamh@brandcomms.com
Vice Chairman:	**Achim Braun, Alcatel.** achim.braun@alcatel.de
Secretary:	**David Boswarthick, ETSI MCC.** david.boswarthick@etsi.fr

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1 Opening of the Meeting

The 10th CN3 meeting took place from 22nd – 26th May at the Ihilani Resort in Kapolei, on the island of Oahu Hawaii.

The N3 meeting was held at the same time as N1, R2 and R3 meetings in the same hotel. The host for the meetings was "The North American Friends of 3GPP", a group that includes Aerial; AT&T; BellSouth; Ericsson; Interdigital; Nokia; Nortel Networks; and Omnipoint

Stephen Hayes of Ericsson welcomed the N3 delegates to Hawaii on behalf of the host, and explained the logistical details for the week.

The N3 Chairman Mr. Norbert Klehn, opened the meeting at 07:30 on Monday 22nd May. He set the objectives for the meetings as follows:

- Finalise all outstanding R99 work items
- Completion of Work Item Facsimile for R00
- Review project management for R2000

2 Approval of the Agenda

N3-000201: **N3#10 Draft Meeting Agenda.** Presented by the N3 Chairman.

Content: Contains the draft Agenda for CN3#10 Meeting.

DISCUSSION: Norbert introduced the agenda document and outlined the schedule of the meeting for the rest of the week. It was agreed that due to the nature of the documents presented for discussion, there would not be parallel Packet and Circuit sessions.

Meetings began every day at 07:00 with breaks at 09:30 and 12:00, and generally ended at 14:00.

RESULT: The Agenda and schedule of work was **APPROVED.**

3 Registration of documents

The meeting documents are available on the 3GPP server at:
ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_010/tdocs/

All additional input documents were assigned to the draft agenda at the beginning of the meeting.

N3-000201: **Draft Meeting Agenda.** Presented by the N3 Chairman.

DISCUSSION: The draft agenda also shows the allocation of the temporary documents to the agenda various items. The initial allocation was discussed at the beginning of the meeting, and the allocations agreed and/or modified. This exercise is reflected in the structure of this meeting report and the original Agenda document is not revised.

RESULT: The allocation of documents was **AGREED.**

4 Reports

4.1 CN3#9 Meeting Report

The meeting report can be found at: ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_09/Report/

N3-000206: **CN3#9 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report for the CN3#9 meeting held in Berlin, April 2000.

DISCUSSION: The CN3#9 report was completed and distributed at the end of the meeting. There was the usual 2-week deadline for comments by e-mail, and these comments have been integrated in the revised meeting report presented in this document.

Some additional comments were incorporated into a revised version of the report.

RESULT: The document was **REVISED to 0235.**

⇓ **REVISED** ⇓

N3-000235: **Rev. CN3#9 Meeting Report.**

DISCUSSION: The revised meeting report was approved and was placed to the meeting server as the final CN3#9 meeting report, (v3.0.0)

RESULT: The document was **APPROVED.**

Status Check on LSs sent from Last N3 Meeting

DOC N3-00	Subject	To	Cc	Attachment	Sent	Status
0170	Clarification on Transfer Delay value for the streaming class.	S2		None	17/04/00	No **S2** Meeting until 22 - 26 May
0195	Bearer Modification without Pre-notification	N1, N4, T2		N3-000198	17/04/00	No **N1** Meeting until 22 - 26 May Response from **N4** in N3-000253 Response from **T2** in N3-000251

4.2 Reports from Other Groups

No input to this agenda item.

5 Liaisons from other groups

N3-000217: **Request for feedback on TR22.976 Study on Release 2000 services and capabilities.**

CONTENT: Contains latest version of 3G TR 22.976 version 1.4.0 Release 2000, (Study on Release 2000 services and capabilities).

DISCUSSION:

N3's COMMENTS TO 22.976 (clause by clause):

- **General problem:** understanding the document because some definitions are missing i.e. GERAN for R99 and for R00
- **to clause 2:** addition of reference 22.002
- **to clause 3.1:** Basic Services shall be defined as teleservices, CS bearer services as defined in 22.002 and PS bearer service as defined in 22.060.
- **to clause 3.1:** the utilisation of the term circuit services is not understood by N3, because of the reference to GSM/ISDN clients and the contradiction to the term circuit switched services.
- **to clause 4.4:** Includes comment "List not exhaustive" – so where do the working groups get their complete list of requirements? Note this term is used in several places throughout the document.
- **to clause 4.6:** Error in 3rd paragraph "…and bearer services (TS 22.004)" should be TS 22.002
- **to clause 4.6:** 3rd paragraph "*GPRS (22.060) provides IP bearer services. SMS, USSD".* N3 consider SMS to be a teleservice (according to the definition of teleservice in 22.001), and may be used as a bearer for other applications.
- **to clause 4.6:** 6th paragraph, requires definition of *"value added services"* and also differentiation between "call related" and "non call related".
- **to clause 4.6: figure 5.** SMS defined twice. "circuit teleservices" and "other bearer services"
- **to clause 4.7:** comment to last bullet point. Note: GPRS is a basic service and this sentence states existing basic services are not intended for R00 – Can this be correct? N3 agrees to this paragraph only if **basic service** is limited to **CS bearer services**.
- **to clause 7.2:** point 3 "based on subscription information" should be reworded in order to enable operator freedom in choosing supporting technology
- **to clause 7.7.1:** table 2 interworking is shown between IM services and GERAN CS voice services, but **NOT** between IM services and UTRAN. Is this correct?
- **to clause 7.7.1:** table 2 note 1 should read "Seamless service continuity of the CS call to the voice medium of the IP multimedia call is required" in order to align it to note 2.
- **to clause 7.7.1:** To the sentence "*Work is currently ongoing in CN3 on service continuity from CS Multimedia services to CS basic services".* **Note:** N3 provides only **fallback and swap from multimedia to speech**.
- **to clause 7.7.4:** Editorial, the clause number is repeated for different clauses.
- **to Annex A:** Facsimile services: move T.38 from "store and forward" to "end to end".
- **to Annex A:** General comment: assignment of services to the CS and PS domains sometimes incorrect, because some services can be provided over the CS or the PS domains, e.g. fax, multimedia or text telephony.
- **to Annex A:** GPRS Point to Multipoint: Correction, IP multicast is R99, but group call is R00.
- **to Annex A:** interworking with intranets already specified (29.061), should be in R99.

N3's feedback from the review of 22.976 was provided to S1 in a LS **N3-000276**

RESULT: The LS was **DISCUSSED**

N3-000276: **Response to Request for feedback on TR22.976 Study on Release 2000 services and capabilities.** Presented by David B, of MCC.

CONTENT: Contains the response to S1 with N3s comments to 3G TR 22.976 version 1.4.0 Release 2000, (Study on Release 2000 services and capabilities).

DISCUSSION: Minor editorial and wording changes.

RESULT: The LS was **REVISED to 0280**

⇓ **REVISED** ⇓

N3-000280: **LS to S1 with N3s comments to 3G TR 22.976 version 1.4.0 Release 2000, (Study on Release 2000 services and capabilities).**

RESULT: The LS was **APPROVED**

N3-000218: **LS from S1 on Deletion of PDP types X.25 and OSP.**

CONTENT: S1 provide a response to our LS **(N3-000093)** on "3G Services" (S2-000174) for the LS on "GPRS - Deletion of X.25 and Work Item of Interworking with ISDN / PSTN".

1) PDP type X.25

S1 notes that S2 and N3 have removed the support of PDP type X.25 from their specifications for Release 99 onwards.

S1 will raise CR's to remove this feature from R99 and R00 versions of the GPRS Stage 1 (22.060).

2) PDP Type OSP and IHOSS

S1 notes that CN3 have deleted the support of Interworking to ISDN / PSTN. S1 has also discussed the support of the IHOSS service and there is no support in S1 for this feature. Therefore S1 sees no need for the PDP type OSP, that was introduced to support these services, and S1 has agreed with N3's recommendation that this feature be deleted.

S1 will raise CR's to remove this feature from R98, R99 and R00.

3) GPRS Registration

S1 also respond to N3's LS on 'clarification of necessity of registration Interworking profile for activation on PS domain" that responded in turn to S1-991068" **(N3-000095)**.

It is clear that the "Registration" procedures contained in the Stage 1 are not consistent with the procedures defined in the rest of the 3GPP GPRS specifications.

S1 will produce a CR to align the Stage 1 with the procedures described in this LS from N3.

DISCUSSION: There is no further action for N3, and the content of the LS is simply noted.

RESULT: The LS was **NOTED**

N3-000232: **Conversion of 27.001,27.002 and 27.003 to UMTS and R99 tidy up.** Presented by Erik of Ericsson

CONTENT: **Contains a LS from T2**

TSG T2 has reviewed the CR's for 27.001 (TSG T2-000222), 27.002 (TSG T2-000223) and 27.003 (TSG T2-000224) which were produced by Eric Colban (Ericsson), Friedhelm Rodermund (MCC) and Ian Harris (Vodafone Airtouch) at an informal meeting at Sophia Antipolis (9^{th},10^{th} May) in preparation for a TSG T2 response to the LS from CN3 (CN3 Tdoc N3-000089, TSG T2 Tdoc 000175).

TSG T2 agrees to the changes in the above CR's which seem to address all the points raised in the LS from CN3.

In particular, consistency with respect to the application of the UE reference model in the 27 series specifications has been achieved.

Additionally, the CR's identify highlighted in yellow, features which are proposed for deletion in R99 and beyond.

TSG T2 has no objection to the deletion of those features highlighted in yellow viz.: -

- V25bis
- 'S' interface

- X30, X31, X32 / X28, X21, X21bis I420
- Signalling access procedures between the TE and MT

Unfortunately, TSG T2 has insufficient time before CN3's next meeting to prepare completed CR's but has no objection to CN3 proceeding with this work using the attached CR's as a starting point.

DISCUSSION: The CRs to 27.001, 27.002 and 27.003 were presented and reviewed on line during the N3 meeting.

T2-00222 **CR to 27.001.** The proposed changes were agreed by N3 and the completed CR is presented in **N3-000236**

T2-00223 **CR to 27.002.** The proposed changes were agreed by N3 and the completed CR is presented in **N3-000237**

T2-00224 **CR to 27.003.** The proposed changes were agreed by N3 and the completed CR is presented in **N3-000238**

RESULT: The LS was **DISCUSSED**

N3-000246: **LS from SPAN 5 in response to the LS contained in N3-000104 on additional impacts on Q.931**

CONTENT: Contains a LS from SPAN 5 in response to an earlier LS from N3 indicating to SPAN and ITU-T a potential problem with modem type codepoints.

In the LS, SPAN 5 recognises N3's concern and agrees that if new Modem type codepoints were to be standardized, the codepoints defined erroneously (as a result of a typographical mistake in the Q.931 publication process), in ETS 300 102-1 (first edition) will not be assigned until the 4 spare values above are exhausted (in fact there is currently no expectation that many new modem type codepoints will have to be assigned in the foreseeable future).

Also SPAN 5 indicate that ETS 300 102-1 is considered a historical document which has not been maintained since more than 5 years and that today's implementations shall refer to EN 300 403-1.

DISCUSSION: ITU and SPAN 5 have been informed of the potential problem. No further action required from N3.

RESULT: The LS was **NOTED**

N3-000251: **LS from T2 on Service Modification without Pre-notification**

CONTENT: T2 respond to N3's LS **(N3-000195)**, on Service Modification without Pre-notification, in which N3 request T2 to develop UMTS TS 27.007, AT command set for 3GPP User Equipment"

T2 notes the request for additional work in the T2 area, which T2 is happy to complete as soon as a proposal is received from interested companies.

RESULT: The LS was **NOTED**

N3-000253: **LS response on Service Modification without Pre-notification**

CONTENT: N4 respond to N3's LS **(N3-000195)**, on the development of Service Modification without Pre-notification between speech and FAX and between speech and modem. N4 recognised the needs to study the impacts to the UMTS TS 23.153 Out of band Transcoder Control Stage2.

N4 inform N3 that the Service Modification without Pre-notification between speech and FAX and between speech and modem feature would be properly treated N4s development of Out of band Transcoder Control feature with the time scales specified in WI (N3-000198).

RESULT: The LS was **NOTED**

N3-000252: **LS from T2 on Address Translation in MMS R'00**

CONTENT: T2 SWG3 MMS group is currently working on Multimedia Messaging Service (MMS) Stage 2 specification, 3G TS 23.140, for R'00.

One of the topics envisaged for R'00 is to enlarge the MMS addressing model. MMS R'99 supports the use of e-mail addresses (RFC 822) and MSISDN numbers, to address the recipient of a Multimedia Message. In the case of e-mail addresses standard Internet message routing should be used. However, MMS R'99 does not specify the mechanism for dynamic mapping of MSISDN numbers to the recipient's the service provider domain.

For R'00 MMS shall support both, dynamic translation of E-Mail addresses and MSISDN numbers, to address the recipient of a Multimedia Message.

Especially, for the MSISDN-addressing of a recipient in a different MMS service provider's domain the need of MSISDN translation to a routable address has been identified. During T2#9, the T2 SWG3 MMS group discussed the use of IETF's ENUM for this purpose. However, it was seen to be likely that some other group within 3GPP is already dealing with the address translation issue.

From document [T2-000163] S2, N3 and N4 are identified to be responsible for "addressing" issues within the building block "Call control and roaming to support IP-based multimedia services in UMTS".

In the LS, T2 request advice from these groups (including N3), on whether there is a 3GPP solution available for MSISDN address translation which would be appropriate for inclusion in MMS.

DISCUSSION: Noted that the mapping mechanism is already provided in the SIP protocol. It is expected that S2 recognise this and respond to T2. No action for N3.

RESULT: The LS was **NOTED**

6 Administrative issues

6.1 Project Co-ordination.

N3-000207: **Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.** Presented by David B of MCC.

CONTENT: This document proposes the 3GPP Work Plan for Release 2000. It describes the complete set of R00 work items and classify them as feature, building block and work task: a feature is subdivided into building blocks and a building block is subdivided into work tasks.

This tree structure is established to ease the monitoring of the 3GPP work progress for R00, and to make explicit the purpose of the work assigned to one WG in the global system.

Background: Short explanations of the concepts used in this document are provided below (extracted from SP-000109).

Feature: New, or substantially enhanced functionality which represents added value to the existing system. A feature should normally embody an improved service to the customer and / or increased revenue generation potential to the supplier.

Building block: A sub-division of a feature, representing a set of technical functionality which would generally be expected to reside in a single system element, i.e. a single physical or logical entity or a single protocol. Building blocks may be "re-usable" - that is, a single building block may be common to two or more features.

Work task: A sub-division of a building block, representing a self-contained, well-scoped and well-scheduled item of work. A work task will almost certainly be the responsibility of a single Working Group. The output of a work task is the creation of one or more new Technical Specifications (or Reports) and / or Change Requests to existing TSs / TRs.

Work item: A generic term to refer to a given feature, building block or work task, i.e. all the individual elements of the table below should soon become work items (some work tasks may however be grouped within a single WI).

Status of review by the 3GPP Groups: This version encompasses the comments made by the Working Groups and the TSGs on version 0.9 or v.0.10. Most of the 3GPP WGs have reviewed the proposal, as shown in the attached table.

N3 had provided its feedback to S2 after CN3#9 meeting in document **N3-00199**.

DISCUSSION: Additional requirement for separate building blocks for ***Service modification between speech and modem and multimedia*** and ***Bearer modification because of radio conditions.***

For the work task 'Enable bearer-independent call control'

With regards to the ***Mc interface (user),*** N4 shall have the responsibility for the Stage 2 and N3 for Stage 3.

N4 will be responsible for the protocol and any eventual extensions, and N3 for the content parameters and the information exchange between MSC and media gateway.

With regards to the ***Nb interface (control),*** N3 shall be responsible for ALL the work (as opposed to N3 and N4).

Upon examining the R00 architecture, it is noted that there is no Work Item for the ***Gm interface***. However Stephen Hayes mentioned that this is not yet well enough defined to begin allocation of work within CN.

These modifications were included in the revised document **N3-000244**.

RESULT: The document was **REVISED to N3-000244**

⇓ **REVISED** ⇓

N3-000244: **N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

DISCUSSION: Subsequent discussions on Service modification without pre-notification resulted in this document being updated by Norbert without presentation to the meeting.

RESULT: The document was **REPLACED by N3-000259**

⇓ **REPLACED** ⇓

N3-000259: **N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

CONTENT: Contains the modified feature building block work task document with the final comments by N3.

DISCUSSION: As the changes had already been discussed on-line during the meeting the document was simply noted.

Modification to one N3 work item title to remove the term UDI.

RESULT: The document was **REVISED to 0271**

⇓ **REVISED** ⇓

N3-000271: **Rev. N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

RESULT: The document was **NOTED**

⇓ **RELATED DOCUMENT** ⇓

N3-000255: **Excerpt of N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

CONTENT: CN3#10 has reviewed the results of the 2nd joint CN/SA2 meeting on R200 work items provided as "Proposal for the Release 2000 Features, Building Blocks and Work Tasks"

CN3#10 proposes further changes related to the Features:-

- Enable bearer independent circuit switched network architecture and

- Bearer modification without pre-notification.

DISCUSSION: Some minor editorial changes were made to the text.

RESULT: The document was **REVISED to 0260**

⇓ **REVISED** ⇓

N3-000260: **REV. Excerpt of N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

DISCUSSION: Modification to the work item title to remove UDI.

RESULT: The document was **REVISED to 0270**

⇓ **REVISED** ⇓

N3-000270: **REV. Excerpt of N3 comments to Release 2000 Features, Building Blocks and Work Tasks v.1.1.0.**

DISCUSSION: Agreed by N3 to be presented to the Joint CN/S2 meeting in June.

RESULT: The document was **AGREED**

N3-000219: **23.821 version 0.2.0 Architecture Principles for Release 2000.** Presented by David B of MCC.

CONTENT: Architecture Principles for Release 2000.

DISCUSSION: There were no comments / questions, the document was noted for information to N3.

RESULT: The document was **NOTED**

N3-000243: **Allocation of CN Interfaces to R00 Architecture.** Source S. Hayes.

CONTENT: Identification of interfaces and allocation to CN and its working groups.

DISCUSSION: Duplicates the information provided in N3-000219

RESULT: The document was **NOTED**

6.2 Terms of Reference

N3-000203: **CN3 Terms of Reference.** Presented by Norbert Klehn.

CONTENT: This document contains the terms of reference of CN3 approved by TSG-CN in the #2 meeting in Fort Lauderdale, March 1999 (NP-99068). They were presented and agreed by CN3#2 (joint with SMG4 and T2) in London in March 1999 (T2-99166).

At the last CN plenary meeting, all CN working groups were requested to accommodate their ToRs according to the present situation. See N3-000204.

DISCUSSION: The document is provided to N3 for information only.

RESULT: The document was **NOTED**

N3-000204: **Draft accommodated CN3 Terms of Reference.** Presented by Norbert Klehn.

CONTENT: Contains the Revised ToR for N3 drafted by the N3 chair and vice chairs. The ToR reflect the restructuring of the CN working groups and the allocation of work for R00.

DISCUSSION: Question raised by Juha on the eventual Interworking between CS and PS domains.

Stephen mentioned SIP - H323 interworking, should be further described and moved to the IM domain. Addition of interworking to different multimedia protocols.

Addition of Interface between CSCF and Internet (Gm) Interworking to external networks

Addition of Interface between CSCF and Internet (Mm) Interworking to external networks

Modification of R reference Point (TE-MT) Related to the PDP context activation and deactivation.

Modification of packet data protocols (PDPs) (e.g. IP, PPPs)

Change working 'internet' to the more general term of 'IP networks'

Also suggested not to delete GSM only specifications from the list of N3 TRs/TSs

All of these comments were incorporated into a REVISED ToR for N3 in N3-00245

RESULT: The document was **REVISED to N3-00245**

⇓ **REVISED** ⇓

N3-000245: **Draft accommodated CN3 Terms of Reference.** Presented by Norbert Klehn.

DISCUSSION: The revision marks shall be included for presentation to TSG_N to hi-light the changes to the N3 ToR.

RESULT: The document was **APPROVED for presentation to TSG_N#8**

6.3 Next meetings, allocation of hosts

N3-000220: **Future N3 meetings** Presented by Norbert.

CONTENT: Contains the listing of future N3, as well as other CN WG meetings.

DISCUSSION: **Note.** TSG_N plenary meeting (#9), in Hawaii has moved forward one week, and the TSG_SA#9 meeting will extend from 3 to 4 days.

Move September meeting #12 to 28th Aug – 1st Sept and decide if we require this meeting in Oslo. Avoid 4th September (holidays in USA).

Extend meeting #13 to 5 days

Decide on date and host of November meeting in Oslo.

RESULT: The document was **REVISED to 0247**

N3-000247: **Rev. Future N3 meetings** Presented by Norbert.

CONTENT: Contains the revised listing of future N3, as well as other CN WG meetings.

DISCUSSION: CN3#12 meeting has been moved to align with the N2 N4 meeting dates. N3 will decide whether to hold the Aug/Sept meeting during the July meeting in Oslo.

RESULT: The document was **NOTED**

Meeting	Date	Host, Location	Comments
TSG-CN3#11	10th – 14th July 2000	Ericsson - Oslo, Norway	
TSG-CN3#12	28th Aug – 1st September	T1P1 – USA (Seattle)	**Moved – possibly cancelled**
TSG-CN3#13	16th – 20th Oct 2000	Alcatel, Stuttgart	**Extended to 5 days**
TSG-CN3#14	13th – 17th Nov 2000	**Host required**	

7 Circuit Switched Work Items:

7.1 Circuit switched Bearers in UMTS

N3-000208: **CR to 23.910 v3.1.0.** Presented by Achim of Alcatel.

CONTENT: **Reason for Change**. Alignment with 29.007.

RESULT: The CR was **AGREED**

N3-000209: **CR to 23.910 v3.1.0.** Presented by Achim of Alcatel.

CONTENT: **Reason for Change**. Clarification on the use of the A-TRAU' protocol for 56 kbit/s and 64 kbit/s

DISCUSSION: **Note: the CR in 208 must be implemented before 209 for section 10.2.3**.

RESULT: The CR was **AGREED**

N3-000215: **CR to 29.007 v3.4.0 on Handover between 3G MSCs.** Presented by Achim of Alcatel.

CONTENT: **Reason for Change**. Clarification on the use of the A-TRAU' protocol for 56 kbit/s and 64 kbit/s

DISCUSSION: **Note: the CR in 176 must be implemented before 0215**.

RESULT: The CR was **AGREED**

N3-000250: **CR to 23.910 v3.0.0.** Presented by Achim of Alcatel.

CONTENT: **Reason for Change**. Clarification of IuUP PDU Type for NT data.

RESULT: The CR was **AGREED**

N3-000210: **CR to 29.007 v3.4.0 on Clarification of the VMSC behaviour in case of interworking.** Presented by Jens of Mannesmann.

CONTENT: **Reason for Change**. Due to the fact, that some national specifications on ISUP interworking require a special behaviour, following happens quite often:

In case of a mobile terminated international FAX/Data Call, at the VMSC incoming IAM with the MSRN, contains a complete "Speech" ISDN BC, which differs from the one stored in the VLR, received with the MAP Beg " Provide Roaming Number" message. Following 29.007 the IAM/ISDN BC applies and not the GSM/ISDN BC from the VLR. This fact leads to unsuccessful calls. The CR adds an addition to Chapter 10.2.2.4 stating clearly the behaviour of the VMSC in the above-mentioned case. The general behaviour of the VMSC will not change with this CR.

The SDL diagrams in annex A are changed as in case of facsimile.

DISCUSSION: Note incorrect CR template used. Also slight modification to the text. Note/ SDLs do not reflect the changes made by NTT DOCOMO for FTM and Fax. Check that the latest version of the specification has been used.

RESULT: The CR was **REVISED to 0248**

⇓ **REVISED** ⇓

N3-000248: **Rev. CR to 29.007 v3.4.0 on Clarification of the VMSC behaviour in case of interworking.** Presented by Jens of Mannesmann.

DISCUSSION: Addition of new Note in table 7b. Addition of clarification in the single numbering section. After clarifying the structure of 29.007 both of the requested changes were rejected because not necessary.

Addition of an additional test in the SDL diagram of ANNEX A.

RESULT: The CR was **REVISED to 0268**

⇓ REVISED ⇓

N3-000268: **Rev. CR to 29.007 v3.4.0 on Clarification of the VMSC behaviour in case of interworking.** Presented by Jens of Mannesmann.

RESULT: The CR was **AGREED**

N3-000213: **CR to 29.007 v3.4.0 on ISDN TA function in case of bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI).** Presented by Hagiwara-San of NTT DoCoMo.

CONTENT: **Reason for Change**. IWF has no ISDN TA function in case of bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI). Structure of the MSC/IWF (transparent) for UMTS should explicitly indicate that.

RESULT: The CR was **AGREED**

N3-000216: **CR to 23.910 v3.0.0 on Clarification of IuUP in Transparent services.** Presented by Hagiwara-San of NTT DoCoMo.

CONTENT: **Reason for Change**. Following two points should be clarified.

1. SDU size does not always correspond to 10ms.

2. CPS packet payload size is equal to half a SDU size.

Also, addition of the table with SDU size for 32kbit/s and 56/64kbit/s

DISCUSSION: Documents from the GSM Association are not publicly used and cannot be referenced in 3GPP specifications. SDU size: Erik suggested inserting table stating which SDU sizes are to be used in each case.

RESULT: The CR was **REVISED to 0249**

⇓ REVISED ⇓

N3-000249: **Rev. CR to 23.910 v3.0.0 on Clarification of IuUP in Transparent services.** Presented by Hagiwara-San of NTT DoCoMo.

CONTENT: The requested table was included.

DISCUSSION: Addition of 28.8 and 33.6 kbit/s to the table was requested although not included in reference 20. Although this is under discussion within GSM assoc. these rates have not yet been included in reference 20.

Note: Reference 20 is not a public document, and all documents referenced in 3GPP deliverables need to be publicly available. It was agreed not to reference the document, only to provide an excerpt from the document.

RESULT: The CR was **REVISED to 0261**

⇓ REVISED ⇓

N3-000261: **Rev. CR to 23.910 v3.0.0 on Clarification of IuUP in Transparent services.** Presented by Hagiwara-San of NTT DoCoMo.

RESULT: The CR was **AGREED**

N3-000231: **Discussion paper on PDU Type should be used for NT data.** Presented by Achim of Alcatel.

CONTENT: ***Background:*** For CS NT Data Iu UP is used in Support Mode. In Support Mode two PDU Types are defined:

- PDU Type 0: with CRC for Payload

- PDU Type 1: without CRC for Payload

Currently it's undefined which PDU Type should be used for NT data.

Discussion:

There are two alternatives to handle this issue:

- The used PDU Type could be subject of operator tuning

- A PDU Type could be defined

In the latter case it is proposed to choose PDU Type 1.

Independent of the chosen alternative it is proposed to clarify this ín TR 23.910.

DISCUSSION: Requirement to define in 23.910 the PDU type used. The CR is presented in ***N3-000250***

RESULT: The document was **NOTED**

N3-000233: **CR to 23.910 v3.0.0 on Indication of discontinuous transfer for NT data.** Presented by Erik of Ericsson.

CONTENT: **Reason for Change**. The non-transparent data service needs to indicate that the transfer of data is discontinuous.

To be able to indicate the case when discontinuous transfer is used, i.e. the case when the source sends SDUs in a discontinuous manner. The description of the 'RAB Subflow Combination bit rate' IE is proposed to be changed as follows:

- The value 0 of RAB Subflow Combination bitrate indicates that the RAB uses discontinuous transfer of the SDUs.

UTRAN can benefit of this information when setting up the Radio Bearers.

DISCUSSION: Addition of a comment "***indicates DTX, RFCI is not assigned"***.

RESULT: The CR was **REVISED to 0262**

⇓ **REVISED** ⇓

N3-000262: **REV. CR to 23.910 v3.0.0 on Indication of discontinuous transfer for NT data.** Presented by Erik of Ericsson.

RESULT: The CR was **AGREED**

N3-000234: **CR to 27.001 v3.4.0 on Indication of discontinuous transfer for NT data.** Presented by Erik of Ericsson.

CONTENT: **Reason for Change**. The non-transparent data service needs to indicate that the transfer of data is discontinuous.

To be able to indicate the case when discontinuous transfer is used, i.e. the case when the source sends SDUs in a discontinuous manner. The description of the 'RAB Subflow Combination bit rate' IE is proposed to be changed as follows:

- The value 0 of RAB Subflow Combination bitrate indicates that the RAB uses discontinuous transfer of the SDUs.

UTRAN can benefit of this information when setting up the Radio Bearers.

DISCUSSION: Addition of a comment "***indicates DTX, RFCI is not assigned"***.

RESULT: The CR was **REVISED to 0263**

⇓ **REVISED** ⇓

N3-000263: **REV. CR to 27.001 v3.4.0 on Indication of discontinuous transfer for NT data.** Presented by Erik of Ericsson.

RESULT: The CR was **AGREED**

N3-000236: **CR to 27.001 v3.4.0 on Adaptations for UMTS.** Presented by Erik of Ericsson.

CONTENT: Contains modifications following the LS from T2. It does not remove V.25bis and this will be done in a later CR.

Reason for Change. This specification has been transferred from SMG to 3GPP. Therefore, adaptations for UMTS are required.

DISCUSSION: It was agreed to leave the EDITORS NOTE as it is useful to the understanding of the document.

Additional modification to table B.4.5a

RESULT: The CR was **REVISED to 0264**

⇓ **REVISED** ⇓

N3-000264: **Rev. CR to 27.001 v3.4.0 on Adaptations for UMTS.** Presented by Norbert on behalf of Erik.

RESULT: The CR was **AGREED**

N3-000237: **CR to 27.002 v3.3.0 on Adaptations for UMTS.** Presented by Erik of Ericsson.

CONTENT: Contains modifications following the LS from T2. It does not remove V.25bis and this will be done in a later CR.

Reason for Change. This specification has been transferred from SMG to 3GPP. Therefore, adaptations for UMTS are required.

DISCUSSION: Changes were made to references and titles.

RESULT: The CR was **REVISED to 0265**

⇓ **REVISED** ⇓

N3-000265: **Rev. CR to 27.002 v3.3.0 on Adaptations for UMTS.** Presented by Erik of Ericsson.

RESULT: The CR was **AGREED**

N3-000238: **CR to 27.003 v3.3.0 on Adaptations for UMTS.** Presented by Erik of Ericsson.

CONTENT: Contains modifications following the LS from T2. It does not remove V.25bis and this will be done in a later CR.

Reason for Change. This specification has been transferred from SMG to 3GPP. Therefore, adaptations for UMTS are required.

DISCUSSION: Modifications to the changes in the reference section. Also re-insertion of the titles in the sections marked VOID. Editorial change in ANNEX A.

RESULT: The CR was **REVISED to 0266**

⇓ **REVISED** ⇓

N3-000266: **Rev. CR to 27.003 v3.3.0 on Adaptations for UMTS.** Presented by Erik of Ericsson.

RESULT: The CR was **AGREED**

7.2 Facsimile

N3-000211: **3G TS 23.146 Ver.1.3.0.** Presented by NTT DoCoMo.

CONTENT: This document contains an updated specification on facsimile group 3 non-transparent (TS23.146).

Points of modification are as follows.

1. The resolving indication point (ACTION POINTS for NTT DoCoMo) of version 1.2.0.

2. The change of the graphic file format.

3. Editorial clarification and correction of misinterpretations.

DISCUSSION: The document was edited on line by Norbert and David, and comments/changes were made directly to the document. Additional changes were requested by the authors.

RESULT: The document was **REVISED to 0254**

⇓ **REVISED** ⇓

N3-000254: **3G TS 23.146 Ver.1.4.0.** Presented by NTT DoCoMo.

DISCUSSION: Some clarification was made to the text. The document is revised in a clean version 1.4.1 with revision marks showing the minor changes given above.

RESULT: The document was **REVISED to 0275**

⇓ **REVISED** ⇓

N3-000275: **Rev. 3G TS 23.146 Ver.1.4.1.** Presented by NTT DoCoMo.

DISCUSSION: **Clean version 2.0.0 without revision marks provided in N3-000277**

RESULT: The document was **REVISED TO 0277**

⇓ **REVISED** ⇓

N3-000277: **3G TS 23.146 Ver.2.0.0.** Presented by NTT DoCoMo.

DISCUSSION: NTT DOCOMO will provide a supporting paper explaining the main changes since v1.0.0 to be sent out by e-mail. This will be added before presentation to the CN Plenary.

RESULT: The document was **AGREED**

N3-000212: **CR to CR 27.001 on Indication of WAIUR 14.4kbit/s in case of UMTS FAX.** Presented by Hagiwara-San of DoCoMo.

CONTENT: **Reason for Change**. 3G TS 23.146 Ver.1.3.0 (section 6) and 3G TR 23.910 Ver.3.0.0 (section 5.1.2) describe that both WAIUR 14.4kbit/s and 28.8kbit/s are applicable. Section B.1.10.3 should indicate WAIUR 14.4kbit/s as well as 28.8kbit/s.

RESULT: The CR was **AGREED**

N3-000214: **Discussion document on AT command extension related to NT-RT FAX in UMTS.** Presented by NTT DoCoMo.

CONTENT: The document contains a report the discussion on AT command extension related to NT-RT FAX in UMTS. This was discussed on the mailing list of T2 and N3 after the last meeting (CN3#9).

DISCUSSION: Erik suggested optimal AT commands to avoid unnecessary divergence between FAX solutions.

Companies wishing to see a new F-class command should address this issue with T2

RESULT: The document was **DISCUSSED**

N3-000274: **Explanatory document for 23.146.** Presented by NTT DoCoMo.

CONTENT: The document contains diagrams for the procedure when RTN, RTP is received from R-FAX.

DISCUSSION: N3 agreed that this information shall be included in 23.146.

RESULT: The document was **DISCUSSED**

7.3 Multimedia

N3-000205: **CR to 29.007 on 33.6 kbit/s for multimedia.** Presented by Norbert of Siemens.

CONTENT: **Reason for Change**. A CR to 29.007 that corrects an error in 29.007, where the value of 33.6 kbit/s cannot be signalled towards the ISDN.

DISCUSSION: The solution is not the same as for AUTOBAUDING. This was suggested by Juha as an alternative possibility. However, is was agreed by the meeting to use the solution proposed in this document because autobauding is only applicable for NT services, but multimedia requires a T service.

RESULT: The CR was **AGREED**

7.4 Services clean up R99

No input to this agenda item

7.5 UMTS maintenance

No input to this agenda item

7.6 GSM maintenance

No input to this agenda item

7.7 Other Work Items (Circuit)

N3-000226: **Discussion Paper on Addition of the new requirement to the WI "Service modification without pre-notification".** Presented by Igarashi-San of NTT DOCOMO

CONTENT: The document suggests that N3 has to consider the functions of modification between speech and multimedia.

(1) N3's WI "service modification without pre-notification" covers the provision of modification without pre-notification between speech and multimedia. Proposed revised WI is described in **N3-000227**

(2) In order to clarify the difference between S1's WI and N3's WI, NEC proposes to revise the SA2 document on "features, building blocks and work tasks" to S2. Proposed SA2 document is described in **N3-000228**

(3) LS on N3 covering work is issued to inform S1 and S2 about the needed work related to the requirements and the provision of the required functions. Draft LS is described in **N3-000229**

DISCUSSION: Erik questions the difference between the modification of the service dependent on radio conditions and modification made by the user. Norbert clarified that the S1 work item is modification of QoS dependent on radio conditions and not modification of the service.

RESULT: The document was **NOTED**

N3-000228: **S2 Work Plan document.**

CONTENT: Revised S2 work plan document

DISCUSSION: The modifications presented in this document duplicate the work already done to N3-000207 on Tuesday

RESULT: The document was **WITHDRAWN**

N3-000227: **Revised Work Item Sheet for Service Modification without pre-notification between Speech and FAX / between Speech and Modem.** Presented by Igarashi-San of NTT DOCOMO.

CONTENT: The document presents the revised WI sheet that reflects the changes suggested in **N3-000226**

DISCUSSION: Some modifications were made to the text and dates. New WI template available for R00 Work Items. The document was updated to reflect these changes

RESULT: The document was **REVISED to 0256**

⇓ **REVISED** ⇓

N3-000256: **Revised Work Item Sheet for Service Modification without pre-notification between Speech and FAX / between Speech and Modem.** Presented by Igarashi-San of NTT DOCOMO.

DISCUSSION: Addition of text to indicate that this is a Building block. Addition of 23.910 to effected specifications.

Delete UDI from this Work item to be introduced in a separate WI sheet for UDI.

RESULT: The document was **REVISED to 0269**

⇓ **REVISED** ⇓

N3-000269: **Revised Work Item Sheet for Service Modification without pre-notification between Speech and FAX / between Speech and Modem.** Presented by Igarashi-San of NTT DOCOMO.

RESULT: The document was **AGREED for presentation to CN Plenary**

N3-000230: **Discussion Paper on Modification without pre-notification between speech and multimedia.** Presented by Igarashi-San of NTT DOCOMO.

CONTENT: The document proposes that now that WI "service modification without pre-notification covers the provision of modification between speech and multimedia, N3 has to consider the provision of modification between speech and multimedia.

In order of provide modification between speech and multimedia, CC, RANAP and RRC are used at air interface as for the modification between speech and fax/modem. We must consider what protocol is used within the Core Network.

This paper proposes;

(1) The working assumption described in the following table.

(2) N3 sends LS to N4 and S4 to ask S4 and N4 to consider modification between speech and UDI multimedia within CN by using BICC.

	at Air Interface	within CN
Modification Between speech and 3.1kHz Multimedia Between speech and modem between speech and fax	CC, RANAP, RRC	No
Modification Between speech and UDI multimedia	CC, RANAP, RRC	BICC

DISCUSSION: If BICC is not used it is not possible to provide modification between speech and UDI.

Norbert: BICC is not yet finalised, however it will be used for 3GPP R00 architecture. It may be useful to wait until BICC is standardised before beginning work. However NTT DoCoMo wish to provide a solution by December 2000.

Juha: questioned the assumption that BICC has been adopted by 3GPP for release 2000 core network. Norbert confirmed that BICC has been defined for the CS domain, but the CS domain can also be provided without using BICC. So, the usage of BICC has to be considered as an option.

One solution would be to modify the work item sheet to separate multimedia for audio and UDI (BICC solution) with a separate completion dates.

In order to clarify these differences it was agreed to provide a separate WI sheet for provision of service modification with BICC. This new WI sheet **(N3-000257)** is to be sent to S2 for information (LS in **N3-000258**).

RESULT: The document was **DISCUSSED**

N3-000258: **LS on Service Modification without pre-notification.** Presented by Igarashi-San of NTT DOCOMO.

CONTENT: **Contains a LS to S1 on Service Modification without pre-notification**

DISCUSSION: Modification to text in title. Changes to the responsibilities for this Work Item between N3 and S1.

RESULT: The document was **REVISED to 0273**

⇓ **REVISED** ⇓

N3-000273: **Rev. LS on Service Modification without pre-notification.** Presented by Igarashi-San of NTT DOCOMO.

DISCUSSION: Modification to the attachments as follows:

N3-000271

N3-000269

N3-000272

(or revisions of the above).

RESULT: The document was **REVISED to 0278**

⇓ **REVISED** ⇓

N3-000278: **Rev. LS on Service Modification without pre-notification.** Presented by Igarashi-San of NTT DOCOMO.

RESULT: The LS was **APPROVED**

N3-000257: **New Work Item Sheet for Service Modification without pre-notification for UDI using BICC.** Presented by Igarashi-San of NTT DOCOMO.

DISCUSSION: Modification to the text in the title and justification. Also change the time schedule and add 23.910 to the effected specifications.

RESULT: The document was **REVISED to 0272**

⇓ **REVISED** ⇓

N3-000272: **Rev. Work Item Sheet for Service Modification without pre-notification for UDI using BICC.** Presented by Igarashi-San of NTT DOCOMO.

DISCUSSION: Completion should be at TSG_N#10 and not #9 as shown here. Editorial changes in justification section.

RESULT: **REVISED to 0279**

⇓ **REVISED** ⇓

N3-000279: **Rev. Work Item Sheet for Service Modification without pre-notification for UDI using BICC.** Presented by Igarashi-San of NTT DOCOMO.

RESULT: The document was **AGREED**

N3-000229: **LS to S1 and S2 explaining the differences for the Work Item Sheets for Service Modification without pre-notification in TSG_N3 and TSG_S1.** Presented by Igarashi-San of NTT DOCOMO.

CONTENT: The document outlines the responsibilities for the work item and asks S1 and S2 to confirm out understanding and action the responsibilities outside of N3s scope.

DISCUSSION: Some modifications were made to the text. A single LS is provided in N3-000258 encompassing this and the information discussed above in N3-000230.

RESULT: The document was **MERGED into 0258**

N3-000225: **Discussion Paper in BC IE parameter negotiation during the call.** Presented by Igarashi-San of NTT DOCOMO.

CONTENT: The document states that in order to provide Bearer Modification without pre-notification, new access signalling has to be considered. The proposed signalling is described below.

Proposed Access Signalling for Bearer Modification without pre-notification

BC IE negotiation procedure consists of three flows. 1st flow is for sending new BC IE to the requested node. 2nd flow is for sending modified(negotiated) BC IE to the requesting node. 3rd flow is for notification whether the modified BC IE is accepted or not by the requesting node. See figure 1.

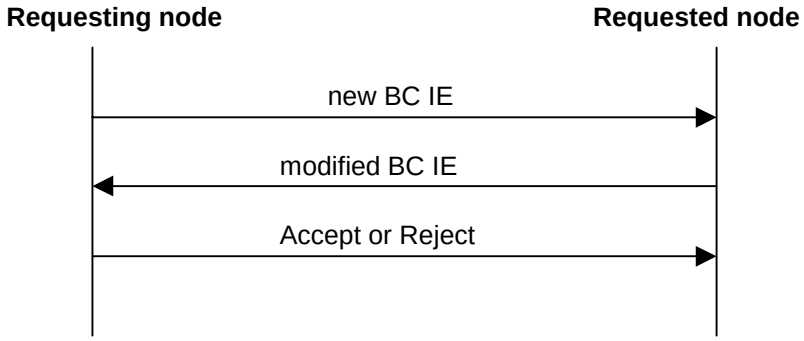

Figure 1: BC IE negotiation

DISCUSSION: Requirement to clarify if this solution is general, including alternate fax considering fallback and swap for multimedia, or applies only to the without pre-notification case. A single solution for the existing modification and for the modification without pre-notification is preferred. This is out of the scope of N3, and should be considered within N1.

RESULT: The document was **DISCUSSED**

N3-000221: **Clarification of timing for the subscription check of Service Modification without pre-notification.** Presented by NEC.

CONTENT: In this document NEC presents a solution to a perceived problem with the implementation of the Work item service modification without pre-notification.

Problem: It is not guaranteed that the service modification without pre notification works in the all network environment. In case that the ADPCM is deployed in transit network and user wants to change the CS service from speech to FAX without pre-notification, FAX negotiation might be failed because of communication errors."

Proposed Solution: The TS/BS used in the future can't be known or expected during call set-up phase. Because of those depend on the user's activity. Therefore, the subscription check shouldn't be performed during call set-up phase. The TS/BS will be made clear when the Modify command is issued and included Bearer Capability information element is confirmed by the V-MSC.

Therefore, the subscription checking should be performed just after the Modify command has been received not during call set-up phase.

DISCUSSION: NI shall examine the requirement for new error calls. NEC must address this directly with N1.

RESULT: The document was **NOTED**

N3-000222: **Clarification of charging aspects of Service Modification without pre-notification.** Presented by NEC.

CONTENT: In this document NEC presents a solution to another perceived problem with the implementation of the Work item service modification without pre-notification.

Problem: The Proposed WI Description includes following sentence within section 6 subtitled as Charging Aspects

"Charging for the service modification without pre-notification has to be considered. For example, it is have to be clarified whether the different charging are performed at the speech phase and the modem/fax phase or not."

Proposed Solution: NEC perceive this as a matter for the operator. The operator may select which charging method is preferable. There may be categorised* as two kinds of method as follows;

1) Same rate method

2) Different rate method

CN WG3 cannot decide on the solution and should ask responsible WG how should be treated and to decide N3 action by the response.

***** *Note: These charging categories were used in only this contribution.*

DISCUSSION: NEC should contact SA5 directly as opposed to N3 sending LSs.

RESULT: The document was **NOTED**

N3-000223: **LS on the above issues.** Presented by NEC.

DISCUSSION: Agreed above not to send this LS

RESULT: The document was **WITHDRAWN**

N3-000239: **Clarification of Network Environmental impact by Service Modification without pre-notification.** Presented by NEC.

CONTENT: This document addresses the problem that the service modification without pre-notification may not work in all network environments. Example, in case that the ADPCM is deployed in the transit network and the user wants to change the CS service from speech to FAX without pre-notification, the FAX negotiation may fail because of communication errors.

NEC propose a solution to this problem, and a related CR to 29.007 **(N3-000240).**

DISCUSSION: Juha proposed an alternative solution whereby we indicate the max ITC capability in the set-up of the call. In this way we may bypass ADPCM devices in the network to allow plain speech to use those ADPCM devices in the network. This solution was agreed as opposed to the solution proposed by NEC. Also an additional CR to 27.001 is required.

RESULT: The document was **DISCUSSED**

N3-000240: **CR to 29.007 on Proposed modification for BC parameter mapping.** Presented by NEC.

DISCUSSION: Due to the fact that an alternative solution was adopted (see N3-000239), this CR was withdrawn.

RESULT: The document was **WITHDRAWN**

N3-000241: **CR to 29.007 on Proposed modification for the description in case of subscription check failed during service modification phase.** Presented by NEC.

CONTENT: **Reason for Change:** Currently, there is no description of subscription check during modification phase. The call shouldn't be released but only modification shouldn't be made when modification failed.

DISCUSSION: The complete solution depends on the work being done in N1. The text within the CR is not complete.

RESULT: The document was **REJECTED**

N3-000242: **LS on subscription checking of Service Modification without pre-notification.** Presented by NEC.

RESULT: The document was **WITHDRAWN**

9 Output of CN3#10 Meeting

9.1 Work Items

The following new Work items were agreed by N3 to be sent to the next TSG_N plenary for Approval:

DOC N3-00	Subject	Release	1st Respo.	2nd Respo.	Delivery
269	Service Modification without pre-notification between Speech and FAX / between Speech and Modem	R00	N3		TSG_N#10
279	Service Modification without pre-notification using BICC	R00	N3		TSG_N#10

9.2 Liaison Statements

The following Liaison Statements were agreed to be sent by N3:

DOC N3-00	Subject	To	Cc	Attachment	Sent
280	Comments to 22.976 v1.4.0	S1			30/06/00
278	Service Modification without pre-notification	S1, S2		0271, 0269, 0279	30/06/00

9.3 Change Requests

The following CRs were agreed by N3 to be sent to the next TSG CN Plenary for approval:-

TDoc #	Spec	CR #	Rel	Tdoc Title	CAT	C_Version	WI
N3-000205	29.007		R99	33.6 kbit/s for multimedia	F	3.4.0	Multimedia
N3-000208	23.910		R99	Handover between 3G MSCs	F	3.0.0	CS Data Services
N3-000209	23.910		R99	Handover (Clarification for 56 and 64 kbit/s)	F	3.0.0	CS Data Services
N3-000212	27.001		R99	Indication of WAIUR 14.4kbit/s in case of UMTS FAX	F	3.4.0	Facsimile
N3-000213	29.007		R99	ISDN TA function in case of bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI)	F	3.4.0	TEI
N3-000215	29.007		R99	Handover between 3G MSCs (Clarification for 56 and 64 kbit/s)	F	3.4.0	CS Data Services
N3-000250	23.910		R99	Clarification of IuUP PDU Type for NT data	F	3.0.0	CS Data Services
N3-000261	23.910		R99	Clarification of IuUP in Transparent	F	3.0.0	CS Data Services
N3-000262	23.910		R99	Indication of discontinuous transfer of NT data	C	3.0.0	CS Data Services
N3-000263	27.001		R99	Indication of discontinuous transfer of NT data	C	3.4.0	CS Data Services
N3-000264	27.001		R99	Adaptations for UMTS	C	3.4.0	TEI
N3-000265	27.002		R99	Adaptations for UMTS	C	3.3.0	TEI
N3-000266	27.003		R99	Adaptations for UMTS	C	3.3.0	TEI
N3-000268	29.007		R99	Clarification of the VMSC behavior in case of interworking	C	3.4.0	TEI

9.4 New TRs / TSs

The following TR/TSs were agreed by N3 to be sent to the next TSG_N plenary for Approval:

DOC	Type	Number	Version	Title
0277	TS	23.146	2.0.0	Technical Realisation of Facsimile Group 3 Non-Transparent

9.5 Other

DOC	Type	Numb	Version	Title
245	ToR			Revised Terms of Reference for CN3
270	Report			Input to Join CN/S2 meeting for R00

10 Any other business

There was no other business raised at this point.

11. Close of meeting

The CN3 chairman closed the meeting on Friday 26th May at 11:30.
Norbert thanked the host for the excellent meeting location and arrangements. He also thanked all of the N3 delegates and David B the N3 MCC support who have actively participated in the meeting.

Annex A: <PS SWG Report> None in this Meeting

Annex B: List of N3 Meeting Participants

The following delegates attended the CN3#10 meeting.

First Name	Last Name	Company	email
Juha	Rasanen	Nokia Corporation	juha.a.rasanen@nokia.com
David	Boswarthick	ETSI	
Laurent	Andriantsiferana	Alcatel France	laurent.andriansiferana@alcatel.fr
Daisuke	Igarashi	NTT DoCoMo Inc.	igarashi@nw.yrp.nttdocomo.co.jp
Norbert	Klehn	Siemens AG	Norbert.klehn@icn.siemens.de
Koji	Fujita	NEC	kfujita@ntes.nec.co.jp
Claire	Gilbertas	France Telecom	claire.gilbertas@francetelecom.fr
Rune Werner	Wiik	LM Ericsson	Rune.Werner.Wiik@ericsson.no
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Toshitaka	Miura	NTT DoCoMo	
Achim	Braun	Alcatel	achim.braun@alcatel.de
Masahiko	Yahagi	NEC	yamasa@mvc.biglobe.ne.jp
Jens	Poscher	Mannesmann Mobilfunk GmbH	Jens.poscher@d2mannesmann.de
Masashi	Ito	NEC	m_itoh@std.abk.nec.co.jp

Annex C: List of documents

Full details can be found in the file *CN3#10-Tdoclist* on the meeting server.

TDoc #	Tdoc Title	Type	Spec	C_Version	Status
N3-000201	Draft Agenda for CN3#10	AGENDA			APPROVED
N3-000202	CN3 meeting dates	OTHER			REVISED to 0200
N3-000203	CN3 Terms of Reference	OTHER			NOTED
N3-000204	Draft accommodated CN3 Terms of Reference	OTHER			REVISED to 0245
N3-000205	33.6 kbit/s for multimedia	CR	29.007	3.4.0	AGREED
N3-000206	CN3_09 Draft Report	REPORT			REVISED to 0235
N3-000207	latest version of F_BB_WT v1.0	OTHER			REVISED to 0244
N3-000208	Handover between 3G MSCs	CR	23.910	3.0.0	AGREED
N3-000209	Handover (Clarification for 56 and 64 kbit/s)	CR	23.910	3.0.0	AGREED
N3-000210	CR for 29.007 on Clarification of the VMSC behavior in case of interworking	CR	29.007	3.4.0	REVISED to 0248
N3-000211	TR/TS, 3G TS 23.146 Ver.1.3.0	TS	23.146	1.3.0	REVISED to 0254
N3-000212	Indication of WAIUR 14.4kbit/s in case of UMTS FAX	CR	27.001	3.4.0	AGREED
N3-000213	ISDN TA function in case of bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI)	CR	29.007	3.4.0	AGREED
N3-000214	Discussion on AT command extension related to NT-RT FAX in UMTS	REPORT			DISCUSSED
N3-000215	Handover between 3G MSCs (Clarification for 56 and 64 kbit/s)	CR	29.007	3.4.0	AGREED
N3-000216	Clarification of IuUP in Transparent	CR	23.910	3.0.0	REVISED to 0249
N3-000217	Request for feedback on TR22.976 Study on Release 2000 services and capabilities	LS IN			NOTED
N3-000218	Deletion of PDP types X.25 and OSP	LS IN			NOTED
N3-000219	23.821 version 0.2.0 Architecture Principles for Release 2000	TR			NOTED
N3-000220	CN3 meeting dates	OTHER			REVISED to 0247
N3-000221	Clarification of timing for the subscription check of Service Modification without pre-notification	REPORT			NOTED
N3-000222	Clarification of charging aspects of Service Modification without pre-notification	REPORT			NOTED
N3-000223	LS to S5 on charging aspects of Service Modification without pre-notification	LS OUT			WITHDRAWN
N3-000224	Clarification of Network Environmental impact by Service Modification without pre-notification				REPLACED BY 0239
N3-000225	BC IE Parameter negotiation				DISCUSSED
N3-000226	addition of the new requirements to the WI service modification without pre-notification	REPORT			NOTED
N3-000227	proposed revised WI sheet for service modification without pre-notification	W.I SHEET			REVISED to 0257
N3-000228	proposed SA2 document on work items	OTHER			WITHDRAWN
N3-000229	Draft LS on S1s WI bearer modification without pre-notification	LS OUT			MERGED into 0258
N3-000230	modification between speech and multimedia	OTHER			DISCUSSED
N3-000231	Iu UP PDP type for NT data	REPORT			NOTED
N3-000232	Conversion of 27.001,27.002 and 27.003 to UMTS and R99 tidy up	LS IN			DISCUSSED
N3-000233	23.910 Indication of discontinuous transfer of NT data	CR			REVISED to 0262
N3-000234	27.001 Indication of discontinuous transfer of NT data	CR			REVISED to 0263
N3-000235	CN3_09 Draft Report	REPORT			APPROVED
N3-000236	Adaptations for UMTS	CR	27.001	3.4.0	REVISED to 0264
N3-000237	Adaptations for UMTS	CR	27.002	3.3.0	REVISED to 0265
N3-000238	Adaptations for UMTS	CR	27.003	3.3.0	REVISED to 0266
N3-000239	Clarification of Network Environmental impact by Service Modification without pre-notification				DISCUSSED
N3-000240	Proposed modification for BC parameter mapping for Service Modification without pre-notification	CR	29.007	3.4.0	WITHDRAWN
N3-000241	Proposed modification for the description in case of subscription check failed during service modification phase	CR	29.007	3.4.0	REJECTED
N3-000242	DRAFT LS on subscription checking of Service Modification without pre-notification	LS OUT			WITHDRAWN
N3-000243	Allocation of CN interfaces to the R00 architecture	REPORT			NOTED

N3-000244	revised version of F_BB_WT v1.0 with comments from N3	OTHER			REVISED to 0259
N3-000245	Draft accommodated CN3 Terms of Reference	OTHER			REVISED from 0204
N3-000246	LS from SPAN5 on additional impacts on Q.931in response to N3-000104	LS IN			NOTED
N3-000247	CN3 meeting dates	OTHER			REVISED from 0220
N3-000248	CR for 29.007 on Clarification of the VMSC behavior in case of interworking	CR	29.007	3.4.0	REVISED to 0268
N3-000249	Clarification of IuUP in Transparent	CR	23.910	3.0.0	REVISED to 0261
N3-000250	Clarification of IuUP PDU Type for NT data	CR	23.910	3.0.0	AGREED
N3-000251	Service Modification without Pre-notification	LS IN			NOTED
N3-000252	Address Translation in MMS R'00	LS IN			NOTED
N3-000253	Response on Service Modification without Pre-notification	LS IN			NOTED
N3-000254	TR/TS, 3G TS 23.146 Ver.1.3.0	TS	23.146	1.3.0	REVISED to 0275
N3-000255	Input from N3 to CN/S2 meeting	LS OUT			REVISED to 0260
N3-000256	proposed revised WI sheet for service modification without pre-notification	W.I SHEET			REVISED to 0269
N3-000257	proposed WI sheet for service modification without pre-notification including BICC	W.I SHEET			REVISED to 0272
N3-000258	Service modification without pre-notification using BICC	LS OUT			REVISED TO 0273
N3-000259	revised version of F_BB_WT v1.0 with comments from N3	OTHER			REVISED to 0271
N3-000260	Input from N3 to CN/S2 meeting	LS OUT			REVISED to 0270
N3-000261	Clarification of IuUP in Transparent	CR	23.910	3.0.0	AGREED
N3-000262	Indication of discontinuous transfer of NT data	CR	23.910	3.0.0	AGREED
N3-000263	Indication of discontinuous transfer of NT data	CR	27.001	3.4.0	AGREED
N3-000264	Adaptations for UMTS	CR	27.001	3.4.0	AGREED
N3-000265	Adaptations for UMTS	CR	27.002	3.3.0	AGREED
N3-000266	Adaptations for UMTS	CR	27.003	3.3.0	AGREED
N3-000267	Photos				NOTED
N3-000268	Clarification of the VMSC behavior in case of interworking	CR	29.007	3.4.0	AGREED
N3-000269	proposed revised WI sheet for service modification without pre-notification	W.I SHEET			AGREED
N3-000270	Input from N3 to CN/S2 meeting	LS OUT			AGREED
N3-000271	revised version of F_BB_WT v1.0 with comments from N3	OTHER			NOTED
N3-000272	proposed WI sheet for service modification without pre-notification including BICC	W.I SHEET			REVISED to 0279
N3-000273	Service modification without pre-notification using BICC	LS OUT			REVISED to 0278
N3-000274	Support of 23.146	REPORT			DISCUSSED
N3-000275	TR/TS, 3G TS 23.146 Ver.1.3.0	TS	23.146	1.3.0	REVISED to 0277
N3-000276	Comments to 22.976	LS OUT			REVISED to 0280
N3-000277	TR/TS, 3G TS 23.146 Ver.2.0.0	TS	23.146	2.0.0	AGREED
N3-000278	Service modification without pre-notification using BICC	LS OUT			APPROVED
N3-000279	proposed WI sheet for service modification without pre-notification including BICC	W.I SHEET			AGREED
N3-000280	Comments to 22.976	LS OUT			APPROVED

Annex D: Status of N3 Specifications after TSG_N#7

	2G	TITLE	R96	R97	R98	R99	3G TR / TS	TITLE	R99	Rapporteur Company	Comments
TS	03.10	GSM PLMN Connection Types	5.4.0	6.0.0	7.0.1	8.1.0	23.910	Circuit switched data services	3.0.0	Achim Braun, Alcatel	
TS	03.45	Technical Realisation of Fax G.3 Service-transparent	5.2.1	6.0.1	7.0.0	8.0.0	X	X	X		
TS	03.46	Technical Realisation of Fax G.3 Service-Non-transparent	5.0.0	6.0.0	7.0.0	8.0.0	23.146	Technical realisation of facsimile group 3 non-transparent	1.1.0	J. Hagiwara, NTT DoCoMo	23.146 to be created for UMTS 03.46 is the GSM solution
TS	03.54	Description of the use of a shared inter-working function in a PLMN S2	5.2.0	6.0.0	7.0.0	X	23.054	Description for the use of a Shared Inter Working Function (SIWF) in a GSM PLMN - Stage 2	3.0.0	Tommy Röstö, Telia	
TS	03.70	Routeing of calls to / from Public data Network (PDN)	5.0.0	6.0.0	7.0.0	X	X	X	X		GSM ONLY - Not required after R98
TS	04.21	Rate Adaptation on MS-BSS Interface	5.6.1	6.0.1	7.0.2	8.0.0	X	X	X	Juha Räsänen, Nokia	GSM ONLY
TS	04.22	Radio Link Protocol for Data and Telematic services on the MS-BSS and the MS-MSC Interfaces	5.6.0	621.0	7.1.0	X	24.022	Radio Link Protocol for Data and Telematic services on the MS-BSS and the MS-MSC Interfaces	3.2.0	N. Klehn, Siemens	
TS	07.01	General on Terminal Adaptation Functions (TAF) for Mobile Stations	5.9.1	6.1.0	7.1.1	X	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations	3.4.0	Erik Colban, Ericsson	CRs @ TSG#7
TS	07.02	TAF for services using Asynch bearer capabilities	5.5.1	6.0.0	7.0.1	X	27.002	TAF for services using Asynch bearer capabilities	3.3.0	Erik Colban, Ericsson	CRs @ TSG#7
TS	07.03	TAF for services using Synch bearer capabilities	5.4.1	6.0.0	7.0.0	X	27.003	TAF for services using Synch bearer capabilities	3.3.0	Erik Colban, Ericsson	CRs @ TSG#7
TS	07.60	Mobile Station (MS) Supporting GPRS	5.1.0	6.5.0	7.2.0	X	27.060	Mobile Station (MS) supporting Packet Switched Services	3.4.0	Graham Heaton, Brand	CRs @ TSG#7
TS	08.20	Rate Adaptation on BSS - MSS Interface	5.3.0	6.0.0	7.0.1	8.1.0	X	X	X	Juha Räsänen, Nokia	GSM ONLY
TS	09.03	Signalling requirements on interworking between (ISDN) or (PSTN) and (PLMN)	5.0.0	6.0.0	7.0.0	X	X	X	X		GSM ONLY - Not required after R98
TS	09.04	Interworking between the PLMN and the CSPDN	5.0.0	6.0.0	7.0.0	X	X	X	X		GSM ONLY - Not required after R98
TS	09.05	Interworking between the PLMN and PSPDN for Packet Assembly / Disassembly (PAD) Access	5.0.0	6.0.0	7.0.0	X	X	X	X		GSM ONLY - Not required after R98
TS	09.06	Interworking between PLMN and PSPDN / ISDN for support of packet switched data transmission services	5.0.2	6.0.0	7.0.0	X	X	X	X		GSM ONLY - Not required after R98
TS	09.07	General requirements on interworking between PLMN and ISDN or PSTN	5.10.0	6.2.0	7.2.0	X	29.007	General requirements on interworking between PLMN and ISDN or PSTN	3.2.0	N. Klehn, Siemens	CRs @ TSG#7
TS	09.61	Interworking between the PLMN supporting GPRS and Packet Data Networks (PDN)	X	6.4.0	7.2.0	X	29.061	Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based Services and Packet Data Networks (PDN)	3.3.0	G. Heaton, Brand Comms	CRs @ TSG#7

Annex E: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG3 members should be aware of.

3GPP email lists:

To receive information about CN3 issues, all delegates and other interested parties MUST register for email list **3GPP_TSG_CN_WG3**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

`subscribe 3GPP_TSG_CN_WG3 YourFirstName YourLastName`

There are many other 3GPP email lists that may also be of interest. Go to http://www.3gpp.org/e-mail.htm for further information.
If at any time you would like to confirm which lists you are currently a member of, just sent a message to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

`QUERY *`

Email archives:

All 3GPP lists have an associated archive of every email sent via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest was to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the ***3GPP_TSG_CN_WG3*** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

`search * in 3GPP_TSG_CN_WG3 since Jan 1999`

As well as a list of emails sent, you receive instructions about how to retrieve the emails.
Some 3GPP archives are also available via a new user-friendly WWW interface. For CN3, go to:
http://list.3gpp.org/archives/3gpp_tsg_cn_wg3.html

Meeting calendar:

The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: http://www.3gpp.org/Meetings.htm

Documents on the server:

All documents submitted to CN3 meetings will be made available on the 3GPP document server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_CN/WG3/
e.g. the documents for CN3 meeting #8 can be found at:
ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_08/Tdocs/

History

Document History	
26th May 2000	Draft **v1.0.0** distributed to CN3 chairman for comments
5th June 2000	DRAFT **v1.1.0** dispatched by e-mail exploder to the N3 list. Comments, if any, to be addressed to: **David Boswarthick, 3GPP TSG-CN3 Secretary** MCC - ETSI Secretariat Tel :+33 (0)4 92 94 42 78 e-mail: david.boswarthick@ETSI.fr A deadline of 2 weeks was given to the N3 delegates for e-mail comments on the draft report. **Comments back by 19th June 2000**
2000	*Updated DRAFT v2.0.0 distributed by mail and placed to the server*
2000	*N3-000xxx v2.1.0 agreed without comments by N3 at the beginning of CN3#11 meeting, and placed to the server as v3.0.0..*