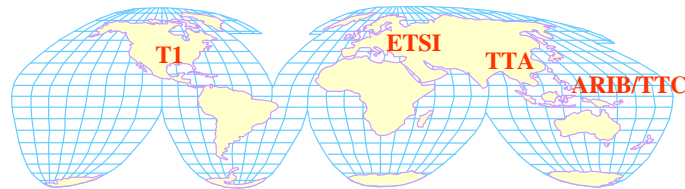*DRAFT*

Third Generation Partnership Project

DRAFT REPORT v1.1.0

3GPP TSG-CN3
Meeting # 12

28th August – 1st September 2000
Seattle, USA

Hosted by
Northern American Friends of 3GPP

Chairman: **Norbert Klehn, Siemens AG.** norbert.klehn@icn.siemens.de

Vice Chairman: **Achim Braun, Alcatel.** achim.braun@alcatel.de

MCC Support: **David Boswarthick, ETSI MCC.** david.boswarthick@etsi.fr

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1 Opening of the Meeting

The 12th CN3 meeting took place from 28th August – 1st September in Seattle, USA.

The N3 Chairman Mr. Norbert Klehn, opened the meeting at 10:00 on Monday 28th August.

2 Approval of the Agenda

N3-000395: **N3#12 Draft Meeting Agenda.** Presented by the N3 Chairman.

Content: Contains the draft Agenda for CN3#12 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.

There were a number of other 3GPP working groups meeting in the same location, which meant it was possible to have a joint N3+N4 session. It was agreed to have on Monday afternoon a joint session with N4 on work split between both of the groups related to the feature "bearer independent circuit switched core network". N3 also decided to participate on Tuesday afternoon in the joint TrFO workshop

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_12/tdocs/

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

N3-000395: **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.

It should be noted that Norbert has created the agenda in the form of a table, that shows document allocation to agenda items as well as the source and title of the documents

This document was distributed and updated throughout the week **(N3-000444, N3-000449 and N3-000466)**. However the chairman's' personal notes were removed before the document was distributed to the delegates.

RESULT: The initial allocation of documents was **APPROVED.**

4 Reports

4.1 CN3#11 Meeting Report, (Oslo)

The meeting report can be found at: ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_11/Report/

N3-000396: **CN3#11 Draft Meeting Report.** Source David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report for the CN3#11 meeting held in Oslo, July 2000.

DISCUSSION: The CN3#11 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.

It was agreed to include an ACTION section in future N3 meeting reports.

Also a clarification was provided to the section on discussion for tdoc N3-000290

Review of open action items from CN3#11:

△	**N3-000314: David to check N3 specifications → open**
△	**N3-000285: should negotiation of codec parameters in N3, N1 or somewhere else: e-mail by Norbert to Hannu, but no response so far, → open**

RESULT: The report was **REVISED to 0445**

⇓ **REVISED** ⇓

N3-000445: **Rev CN3#11 Draft Meeting Report.** Source MCC, N3 chairman

RESULT: The report was **APPROVED**

4.2 Reports from Other Groups

N3-000438: **Mail to TSG_CN about PCG#4/OP#3 meeting.** Source CN chairman

DISCUSSION: The CN3 chairman has drawn the attention of the delegates to the information on the transfer of GERAN into 3GPP and that SMG3 will disappear. Further, he emphasised that he has to start every meeting with asking if any member wishes to make IPR disclosures.

RESULT: The document was **NOTED.**

N3-000439: **Mail to TSG_SA2 about split of 23.821.** Source SA2 chairman.

RESULT: The document was **NOTED.**

N3-000435: **Mail to TSG_CN about Helsinki Project Planning meeting.** Source CN Chairman.

RESULT: The document was **NOTED.**

N3-000436: **Draft summary report from Helsinki meeting.** Source MCC.

DISCUSSION: The document was not available. However, N3-000435 gave sufficient information about this meeting.

RESULT: N3-000436 was **WITHDRAWN.**

No tdoc: **Information from last SA1 meeting.** Source CN3 Chairman.

DISCUSSION: The CN3 chairman gave some information from the last SA1 meeting. He concentrated on issues relevant for CN3:
- CR on 32 kbit/s UDI/RDI multimedia was conditionally approved depending on the results in GERAN
– GTT: the stage 1 is for e-mail approval
– BS 30 NT has been deleted, rapporteurs are invited to provide CRs if their specifications are impacted.

RESULT: The report was **NOTED.**

4.3 IPR Disclosures

No input for this meeting

5 Liaisons from other groups

Status Check on LSs sent from Previous N3 Meetings

DOC N3-00	Subject	To	Cc	Attachment	Sent	Status
280	Comments to 22.976 v1.4.0	S1				Seen by S1#9 meeting
278	Service Modification without pre-notification	S1, S2		0271, 0269, 0279		Seen by S1#9 meeting Not Seen by S2#14 meeting
373	32 kbit/s UDI/RDI multimedia	S1 SMG2/GERAN			17/07	Seen by R3#15 meeting Not Seen by GP#1 meeting
389	3.1 kHz multimedia calls at 33.6 kbit/s data rate	N1			17/07	Seen by N1#13 meeting
390	Specifying IuUP PDU Type in 3G TS 26.102	R3	S4		17/07	Seen by R3#15 meeting Not Seen by S4#12 meeting

N3-000398: **Bearer Independent Circuit-Switched Core Network Work Split.** Source N4

CONTENT: This LS was handled in the joint N3 / N4 session. Refer to N4's report for further details:

DISCUSSION: Summary of the discussion:-

N4's modifications to project plan were again modified, results are provided (in 446)

BB "Evolution of Bearers in CN" was removed because N3's WT does not make sense because of the removal of N4's WT

Removal of the WT where the responsibilities are indicated by "?" in the BB "Evolution of Transport in the CN"

Modification of N3's WT related to the Mc i/f for the BB "Bearer Independent CS architecture"

N4's WID again modified, (result in 447)

RESULT: The LS was **DISCUSSED.**

N3-000399: **Specifying IuUP PDU Type in 3G TS 26.102.** Source R3.

DISCUSSION: Identical to N3-000354, to which a response LS has been generated in N3-000390.

RESULT: The LS was **WITHDRAWN.**

N3-000400:   **Re. Liaison statement on Service Modification without Pre-Notification.** Source S1.

DISCUSSION: N3 is happy and can go ahead with their work,

However it is still unclear to Ericsson whether N3 is also responsible for "modification due to bad radio conditions", all of the other delegates interpret this as "no",

△	**[ACTION N3_12_01] -** Yahagi-San will contact the contact person to clarify the problem.

The result is given in 0451.

RESULT: The LS was **DISCUSSED.**

N3-000423:   **LS response on Service Modification without Pre-Notification.** Source N4.

DISCUSSION: This topic was already discussed in joint session and will also be handled in joint TrFO workshop on Tuesday, possibly change of N3's WID depending on N4's time scale,

It is not clear whether TrFO can be finished in R4 or has to be delayed to R5. SMWOP follows the dates of TrFO.

RESULT: The LS was **DISCUSSED.**

N3-000415:   **Re:- LS on 3.1kHz calls at 33.6Kbit/s data rate.** Source N1.

DISCUSSION: Handled under 7.1.3.2, changes to CR necessary, depends on the solution agreed in N3.

RESULT: The LS was **DISCUSSED**

N3-000467:   **Updated Iu UP CR on selection of PDU Type 1 for NT CS data services.** Source R3.

DISCUSSION: R3 provide a solution how PDU type 1 can unambiguous be selected for NT data services,

N3's response it provided in 0473

RESULT: The LS was **DISCUSSED.**

N3-000468:   **Answer to LS on 32 kbit/s UDI/RDI multimedia.** Source GERAN

DISCUSSION: N3 can provide their CRs without any condition depending on GERAN, attached CRs are for information

RESULT: The LS was **NOTED.**

6 Administrative issues

6.1 Project Co-ordination.

N3-000422: **3GPP project plan (hi-light N3).** Source MCC

RESULT: The document was **REPLACED by 0437.**

N3-000437: **3GPP project plan.** Source MCC

DISCUSSION: The following comments were made to the project plan:

Unclear of the purpose of the columns "WG approved" or "TSG approved".

△	**[ACTION N3_12_02]** - DAB to check the colums and give information the author where we have agreed WID.

Remove **19, 20, 21** (See joint session with N4)

IM work tasks not reviewed because a new work split within CN is very likely, however **102** is not in the scope of N3 (possibly N4)

120: Nb reference point can only be finished in March 2001, work starts only when N4 has stable stage 2 on Bearer independent circuit switched network architecture (not IM domain / 23.821 as mentioned in the project plan)

125: only start when 124 is available in a first version

131: approved WI exists, GTT interworking is scheduled from Sep – Dec 2000, no work in N3 because N3 is still waiting for stage 1 and 2 for GTT, only then work will start in N3, finalisation date in Dec 2000 is very unrealistic

157: work will start when stage 1 is available, but not yet available, finalisation date scheduled for March 2001, however there are also dependencies to TrFO.

375: Is there any WID?

△	**[ACTION N3_12_03}** - comments will be communicated by Norbert via David to the authors

RESULT: The document was **DISCUSSED.**

N4-000547 in N3-000398: Modifications of Project Plan V 1.3. Source N4

DISCUSSION: Dealt with in the joint session with N4

RESULT: The document was **DISCUSSED.**

AHR0xxx in 0435: Mail to TSG_CN about Helsinki Project Planning meeting. CN chairman

DISCUSSION: Comments to AHR00-0029:

54: change #12 into #14 (see WID)

107: #11 is in line with WID, however N3 can only start their work when N4 has provided a stable specification

132: #10 very unlikely because N3 is still waiting for stage 1 and 2 before they can start their work

365: change #10 into #14 because this work is linked with 54

Comments to AHR00-0031

QoS: Ensure reliable QoS for PS Domain and IM subsystem: stage 3 should be in Dec 2001

△	**[ACTION N3_12_04}** - Norbert will communicate these information to the CN Chair

RESULT: The document was **DISCUSSED.**

6.2 Terms of Reference / Future Work

Although no document was presented on this topic, there was some discussion on the N3 ToR and future role of N3.

- Stephen Hayes has sent a mail on the proposed work split in CN for the IM subsystemN1: SIP (Call control) including SIP supplementary services

- N2: CAMEL extensions for VoIP and multimedia

- N3: SDP (Session Definition Protocol), QoS protocols (such as RSVP)

- N4: AAA protocols, security protocols, non-application layer protocols and protocol stacks (use of IPv6, SS7 over IP), subscriber data management in HSS

- N5: extension of OSA (or whatever it's new name is) to VoIP and multimedia

Rare comments by N3 delegates, the proposed work is mostly not this what the N3 delegate do at the moment, clarification within the companies necessary

N3 does not reject or block the proposed new work split. It seems necessary to come to a balanced work load for all of the CN WGs. It is very probably that N3 will install again two subgroups, one for the IM subsystem (dealing with SDP and QoS) and another one for the CS and PS domain (dealing with interworking issues).

6.3 Next meetings, allocation of hosts

N3-000414:   **N3 meetings for 2001.** Presented by Norbert.

CONTENT: Contains the listing year 2001 meetings for N3 as well as other CN WGs.

DISCUSSION: Norwegian delegates request not to move April meeting week 17 to May week 20

February meeting (week 8) has to be moved because it is in parallel with GSM world congress where MCC has to give support (probably move to week 6)

There is a request to align the meeting dates of N2, N3 and N4

RESULT: The document was **DISCUSSED.**

Meeting	Date	Host, Location	Delta to previous meetings	Comments
TSG-CN3#13	16th – 20th Oct 2000	Alcatel, Stuttgart	6 weeks	**Extended to 5 days**
TSG-CN3#14	13th – 17th Nov 2000	ETSI, Sophia	3 weeks	
TSG-CN3#15	19th – 23rd Feb 2001	**Host required**	15 weeks	
TSG-CN3#16	23rd – 27th April 2001	**Host required**	8 weeks	
TSG-CN3#17	9th – 13th July 2000	**Host required**	10 weeks	
TSG-CN3#18	3rd – 7th Sept 2000	**Host required**	7 weeks	
TSG-CN3#19	12th – 16th Nov 2001	**Host required**	9 weeks -	

6.4 Election of N3 Vice Chairman

No nominations for N3 vice chair have been received, and no elections took place in this meeting.

7 Release 99 and earlier:

7.1 T.E.I

7.1.1 CS Bearers

7.1.1.1 UMTS clean up

N3-000397: **CR 24.022: Correction for timer T4.** Source Alcatel.

DISCUSSION: Replaced by 0417

RESULT **The document was WITHDRAWN**

N3-000417: **CR 24.022: Correction for timer T4.** Source Alcatel.

DISCUSSION: This CR should be combined with the CR in 0367 (presented in Oslo)

RESULT **The document was MERGED in 0450**

⇓ **MERGED** ⇓

N3-000450: **CR 24.022: Correction for timer T4.** Source Alcatel.

DISCUSSION: Replaces 0367 (agreed in Oslo)

RESULT **The document was APPROVED**

N3-000430: **R99 CR 27.001: Modification from V.25bis to V.250.** Source Ericsson.

DISCUSSION: No automatic procedures in V.250, therefore no replacement of V.25bis by V.250 but deletion in GSM section.

RESULT **The document was AGREED**

N3-000431: **R00 CR 27.001: Modification from V.25bis to V.250.** Source Ericsson.

RESULT **The document was AGREED**

N3-000432: **R99 CR 27.002: Modification from V.25bis to V.250.** Source Ericsson.

RESULT **The document was AGREED**

N3-000433: **R99 CR 27.003: Modification from V.25bis to V.250.** Source Ericsson.

DISCUSSION: V.250 is for asynch. terminals, asynch. terminals can use synch. as well as asynch. services, therefore also changes in 27.003, V.25bis still valid for synch terminals

RESULT **The document was AGREED**

N3-000440: **R99 CR 27.001: UMTS clean-up.** Source Ericsson / Siemens.

DISCUSSION: Replaces 0391 (agreed in Oslo)

RESULT **The document was AGREED**

N3-000441: **R00 CR 27.001: UMTS clean-up.** Source Ericsson / Siemens.

DISCUSSION: Replaces 0392 (agreed in Oslo)

RESULT **The document was AGREED**

7.1.1.2 RCR Indication from MSC to MS

N3-000428: **CR 27.001: RCR is not indicated from the network to the MS.** Source Ericsson.

DISCUSSION: Editorial CR for R00 only, because it is already clear that the RCR is only indicated by the MS but not negotiated. This CR makes it clearer. No CR against earlier releases.

RESULT **The document was AGREED**

N3-000429: **CR 29.007: RCR is not indicated from the network to the MS.** Source Ericsson.

DISCUSSION: Editorial CR for R00 only, because it is already clear that the RCR is only indicated by the MS but not negotiated. This CR makes it clearer. No CR against earlier releases.

RESULT **The document was AGREED**

7.1.1.3 Others

N3-000424: **R99 CR 27.001: Delivery of erroneous SDUs parameter value.** Source Ericsson.

DISCUSSION: Alignment with 25.413, better identification of appropriate Iu UP PDU type for NT data services.

RESULT **The document was AGREED**

N3-000425: **R00 CR 27.001: Delivery of erroneous SDUs parameter value** Source Ericsson.

RESULT **The document was AGREED**

N3-000426: **R99 CR 23.910: Delivery of erroneous SDUs parameter value.** Source Ericsson.

RESULT **The document was AGREED**

N3-000427: **R00 CR 23.910: Delivery of erroneous SDUs parameter value.** Source Ericsson.

RESULT **The document was AGREED**

N3-000473: **LS to R3 on Updated Iu UP CR on selection of PDU Type 1 for NT CS data services.** Source Ericsson.

DISCUSSION: Some comments were made to the LS which was updated.

RESULT **The document was REVISED to 0486**

⇓ REVISED ⇓

N3-000486: **Rev. LS to R3 on Updated Iu UP CR on selection of PDU Type 1 for NT CS data services.** Source Ericsson.

RESULT **The document was AGREED**

7.1.2 Call Handling

N3-000412: **Behaviour of HLR in Mobile Terminated Call.** Source Nokia.

DISCUSSION: Some sympathy for 3rd solution, 2nd solution technically not possible, some more investigations are necessary:-

To allow the HLR a dopplecheck of received information even they seems to be sufficient to change the VMSC behaviour, either a new additional rule or to give information received from the HLR preference

RESULT **The document was POSTPONED to N3#13**

7.1.3 Multimedia

7.1.3.1 Multimedia 32 kbit/s UDI/RDI

N3-000402: **CR 29.007: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: should be TSG#9, add the references to other specs, technically no concerns

RESULT The document was **REVISED to 0452 and 0458**

⇓ **REVISED** ⇓

N3-000452: **R99 CR 29.007: 32kbit/s UDI/RDI multimedia.** Source Nokia.

RESULT The document was **AGREED.**

N3-000458: **R00 CR 29.007: 32kbit/s UDI/RDI multimedia.** Source Nokia.

RESULT The document was **AGREED.**

N3-000403: **CR 27.001: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: should be TSG#9, add the references to other specs, correct affected clauses, editorial correction to table B.5.a, technically no concerns

RESULT The document was **REVISED to 0453 and 0459**

⇓ **REVISED** ⇓

N3-000453: **R99 CR 27.001: 32kbit/s UDI/RDI multimedia** Source Nokia.

RESULT The document was **AGREED**

N3-000459: **R00 CR 27.001: 32kbit/s UDI/RDI multimedia** Source Nokia.

RESULT The document was **AGREED**

N3-000404: **CR 04.21: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: -another CR for 3GPP clean-up is needed

separate document will be provided next meeting by Juha;

Is 04.21 still the correct version when GSM is now within 3GPP

| △ | **[ACTION N3_12_05} -** David to check and change cover page if necessary |

remove all changes from clause 5

remove I.460 (reference list and clause 7) because included in V.110

logical gap between the new table and the following paragraphs (clause 8)

should be TSG#9, add the references to other specs

RESULT The document was **REVISED to 0454**

⇓ **REVISED** ⇓

N3-000454: **Rev. CR 04.21: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: Remove clauses 5 and 7 from the CR, there are no changes

RESULT The document was **REVISED to 0474**

⇓ **REVISED** ⇓

N3-000474: **CR 04.21: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: Is 04.21 still the correct version when GSM is now within 3GPP?

△	**[ACTION N3_12_05} -** David to check and change cover page if necessary

RESULT **The document was AGREED**

N3-000405: **CR 08.20: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: another CR for 3GPP clean-up is needed

separate document next meeting by Juha

Is 08.20 still the correct version when GSM is now within 3GPP?

△	**[ACTION N3_12_05} -** David to check and change cover page if necessary

clause 16.2.1: change "bits" to "4 bits" and "ATRAU" to A-TRAU"

Should be TSG#9, add the references to other specs

RESULT **The document was REVISED to 0455**

⇓ **REVISED** ⇓

N3-000455: **REV. CR 08.20: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: Is 08.20 still the correct version when GSM is now within 3GPP?

△	**[ACTION N3_12_05} -** David to check and change cover page if necessary

RESULT **The document was AGREED**

N3-000406: **CR 03.10: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: Is 03.10 still the correct version when GSM is now within 3GPP?

△	**[ACTION N3_12_05} -** David to check and change cover page if necessary

should be TSG#9

add the references to other specs

Figure should be added in fig. 8 or 9

Annex A to delete at FNUR and WAIUR the text in parenthesis

RESULT **The document was REVISED to 0456**

⇓ **REVISED** ⇓

N3-000456: **Rev. CR 03.10: 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: Figures for 56, 64 and 32 kbit/s (only TCH/F32 is missing) will be provided next meeting by Nokia in co-operation with the rapporteur Achim in a separate CR

Is 03.10 still the correct version when GSM is now within 3GPP?

△	**[ACTION N3_12_05} -** David to check and change cover page if necessary

RESULT **The document was AGREED**

N3-000475: **LS to N1 on 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: remove "CRs from GERAN", only LS is attached to include the attachments in the ZIP-file

RESULT **The document was REVISED to 0484**

⇓ **REVISED** ⇓

N3-000484: **Rev. LS to N1 on 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION: to add the GERAN LS to the zip file

RESULT The document was **REVISED to 0487**

⇓ **REVISED** ⇓

N3-000487: **Rev. LS to N1 on 32kbit/s UDI/RDI multimedia.** Source Nokia.

DISCUSSION:

⚠	**[ACTION N3_12_06} -** Nokia will provide a draft CR to N1 and present this LS

RESULT The document was **AGREED**

7.1.3.2 Multimedia 33.6 kbit/s Audio

N3-000407: **CR 29.007: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: should be TSG#9,

add the references to other specs

4.4.1.1 further corrections needed

what is the difference between flag stuffing and stuffing mode? they are different level of robustness, both defined in H.223

How gets the H.223 component the information from the Modify Msg.? Data rate indication to the application using V.80 in-band signalling. Applicable at the start as well as during the call

should be included in 27.001

how to detect the flags: several mechanisms possible, e.g. monitoring the MM set-up to detect the level of robustness, giving some hints in the text

same terms as in H.223 should be used (e.g. stuffing is not used in H.223)

correct use of 3GPP terminology requested

RESULT The document was **REVISED to 0460**

⇓ **REVISED** ⇓

N3-000460: **Rev. CR 29.007: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: term "flag stuffing" and "stuffing mode" are defined in annex C of H.323 (some times separate file, not included in H.323)

H324 annex C for the detection of robustness level, robustness levels are described in H.323 annexes A-C

again correct use of 3GPP terminology for the new text requested, e.g. to replace "can" by "may" in 2 cases

RESULT The document was **REVISED to 0476 and 0477**

⇓ **REVISED** ⇓

N3-000476: **Rev. R99 CR 29.007: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000477: **Rev. R00 CR 29.007: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000408: **CR 27.001: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: should be TSG#9, add the references to other specs

improvements to the text necessary (acc. to comments made for 407)

correct use of 3GPP terminology requested

flag stuffing is not applied by the TAF but by the H.223 component in the UE. Text in all 3 sections have to be updated to reflect this.

add V.80 to reference list

RESULT The document was **REVISED to 0463**

⇓ **REVISED** ⇓

N3-000408: **Rev. CR 27.001: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: Replace "to enable" by "to force" (3 places)

use "3G TS" in reference list (3 places)

subclauses 8.1 and 8.2 to be removed because not impacted

RESULT The document was **REVISED to 0478 and 0479**

⇓ **REVISED** ⇓

N3-000478: **Rev. R99 CR 27.001: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000479: **Rev. R00 CR 27.001: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000409: **CR 23.910: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: should be TSG#9, add the references to other specs

section 5.2.2: guaranteed bit rate will not be changed when the FNUR changes due to modify message

change "the set-up of the FNUR" into "the FNUR at set-up"

Improve note 2, to avoid that these values can be negotiated during call set-up between MS and IWF.

RESULT The document was **REVISED to 0464**

⇓ **REVISED** ⇓

N3-000464: **Rev. CR 23.910: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

DISCUSSION: use "3G TS" for references to 3GPP specs

RESULT The document was **REVISED to 0480 and 0481**

⇓ **REVISED** ⇓

N3-000480: **R99 CR 23.910: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000481: **R00 CR 23.910: 3.1kHz multimedia at 33.6kbit/s.** Source Nokia.

RESULT The document was **AGREED**

N3-000415: **Re:- LS on 3.1kHz calls at 33.6Kbit/s data rate.** Source N1.

DISCUSSION: LS back with indication of needed corrections in CR against 24.008 (TCH issues in 29.007)

Response to this LS in 0482

RESULT The document was **DISCUSSED**

N3-000482: **Re:- LS on 3.1kHz calls at 33.6Kbit/s data rate.** Source Nokia.

DISCUSSION: It was found that there is no LS necessary. Nokia will present a corrective CR to next N1 meeting

△	**[ACTION N3_12_06} -** Nokia will provide a draft CR to N1

RESULT The document was **WITHDRAWN**

7.1.3.3   Use of LLC and BC for Multimedia

N3-000413: **H.323&H.245 mapping for ISDN.** Source Nokia.

RESULT The document was **WITHDRAWN**

7.1.4 GPRS

7.1.4.1   DHCP

N3-000401: **CR 29.061: Interworking with DHCP.** Source Alcatel.

RESULT The document was **POSTPONED until response by T2 is received**

N3-000410: **DHCP renewal procedure.** Source Nokia.

DISCUSSION: Drawbacks: -
Lucy: IMCP is very heavy message, should not be used for this problem

Achim: GGSN needs now an state model (or extended) for PDP context handling, ECHO message may be lost

context will be released although not necessary, also a practical problem with the value of timer T

Erik: we are looking for a solution for a theoretical problem, a solution that includes a lot of traffic is not acceptable

These drawbacks are not accepted or seen as not significant by Nokia see 483 (decided to send LS to T2 to ask for guidance on the MS side)

RESULT The document was **DISCUSSED**

N3-000411: **CR 29.061: DHCP renewal procedure.** Source Nokia.

RESULT The document was **postponed until response by T2 is received**

N3-000418: **CR 27.060: DHCP lease.** Source Alcatel.

RESULT The document was **WITHDRAWN and replaced by 0457**

N3-000457: **CR 27.060: DHCP lease.** Source Alcatel.

RESULT The document was **postponed until response by T2 is received**

N3-000419: **DHCP lease.** Source Alcatel.

DISCUSSION: no concerns with this proposal, except Nokia's proposal in 410, some open issues have been clarified, e.g. concerning the proposed procedure

see 483 (decided to send LS to T2 to ask for guidance on the MS side)

RESULT The document was **DISCUSSED**

N3-000472: **DHCP Mechanisms.** Source Motorola.

RESULT The document was **NOTED**

N3-000483: **Draft LS to T2 on DHCP lease renewal.** Source Alcatel.

DISCUSSION: improvements necessary

RESULT The document was **REVISED to 0485**

⇓ **REVISED** ⇓

N3-000485: **Rev. Draft LS to T2 on DHCP lease renewal.** Source Alcatel.

DISCUSSION: improvements necessary

RESULT The document was **REVISED to 0488**

⇓ **REVISED** ⇓

N3-000488: **Draft LS to T2 on DHCP lease renewal.** Source Alcatel.

RESULT The document was **AGREED**

7.1.4.2   Others

no input to this agenda item at this meeting.

8 Release 2000:

8.1 CS Multimedia Swap and Fallback

Although there was no input to this work item the following notes were taken on this topic.
- swap function is similar / subset of SMWOP
- fallback: some technical problems, no reasonable easy solutions
- We should not have two solutions for MM and the other services

8.2 RT Facsimile

No Input as this Work Item is complete

8.3 Service Modification without pre-notification

N3-000442: **Time Schedule for Service Modification without Pre-notification.** Source NEC.

DISCUSSION: Contributions expected to next but one meeting, recommended to provide contributions to next meeting, intention to finish all work in March 2001

RESULT The document was **NOTED**

N3-000443: **Report of N1 meeting regarding to Service Modification without pre-notification.** Source NEC.

DISCUSSION: contains work done in N1 and contributions to N1 that are not yet approved by N1

N3 notes this document, request contributions to those topics where is N3 responsible for, N3 appreciates results that are approved by N1.

RESULT The document was **NOTED**

N3-000448: **Necessary N4 works for SMWOP (Service Modification without Pre-negotiation).** Source NEC.

DISCUSSION: dealt with in the joint session with N4: proposed work split agreed: OoBTC is matter of N4

RESULT The document was **NOTED**

N3-000451: **Status of LS from S1.** Source NEC.

DISCUSSION: N3 has not to work for bearer modifications because of radio conditions

RESULT The document was **NOTED**

8.4 Text telephony

N3-000416: **Global Text Telephony - Status report.** Source Ericsson.

DISCUSSION: only stage 1 is on e-mail approval

stage 2 is not mature (S2), expected for mid of September

N3 waits for mature stage 1 and 2, Ericsson will contribute to N3's work

RESULT The document was **NOTED**

8.5 Interworking between IM Subsystems and CS

N3-000420: **Revised proposed work item description for interworking between IM CN subsystem and circuit switched networks.** Source N3 Chairman

DISCUSSION: Intended to replace 387 agreed last meeting

remove link to WI "Evolution of Bearers in the CN" because it is intended to be deleted

update of the finalisation dates

RESULT The document was **REVISED to 0469**

⇓ REVISED ⇓

N3-000469: **Revised proposed work item description for interworking between IM CN subsystem and circuit switched networks.** Source N3 Chairman

RESULT The document was **AGREED**

8.6 Interworking between IM Subsystems with IP

N3-000421: **Revised proposed work item description for interworking between IM CN subsystem and IP networks.** Source N3 Chairman

DISCUSSION: Intended to replace 385 agreed last meeting

remove link to WI "Evolution of Bearers in the CN" because it is intended to be deleted

update of the finalisation dates

RESULT The document was **REVISED to 0470**

⇓ REVISED ⇓

N3-000470: **Revised proposed work item description for interworking between IM CN subsystem and IP networks.** Source N3 Chairman

RESULT The document was **AGREED**

8.7 Bearer Independent CS core network

N3-000434: **Interworking with AAL2/ATM networks.** Source Ericsson.

DISCUSSION: identifies two issues:-

interworking to ATM/AAL2- what protocols between MGWs

TrFO workshop decided to use Iu UP between MGWs for speech, also decided to move the IWF to the Edge, therefore some of the discussions of the document becomes irrelevant.

Now:

how the MGW at the AN side has to be invoked

to find out to correct requirements for interworking to fixed networks (e.g. AAL1 or/and AAL2?)

structure of the IWF (Iu UP on one side and FN protocols on the other side (the existing ones + AAL2)

to clarify whether "Iu UP break" is also for CS data ?

RESULT The document was **DISCUSSED**

N3-000446: **Modifications to 3GPP Project Plan for R00 v.1.3.** Source joint session with N4.

RESULT The document was **AGREED**

N3-000447: **WID: Bearer Independent Circuit-Switched Core Network.** Source joint session with N4.

RESULT The document was **AGREED**

N3-000471: **WID: IWF at the Edge.** Source N3.

RESULT The document **will be provided after the meeting, e-mail approval next week until Friday**

△	**[ACTION N3_12_07} -** Norbert will prepare a draft version together with Achim and Erik and will provide the document after the meeting – e-mail approval until Friday.

8.8 Other R00 Work Items

N3-000461: **TS 33.102 version 3.5.0.** Source S3

RESULT The document was **NOTED**

N3-000462: **TS 33.103 version 3.5.0.** Source S3

RESULT The document was **NOTED**

N3-000465: **Security Impacts on N3.** Source Motorola

CONTENT: identifies some aspects where that may influence N3's work, delegates are invited to study 461 and 462 and identify possible areas where N3 has to contribute

RESULT The document was **NOTED**

9 Output of CN3#12 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
N3-000471	IWF at the CN Border to fixed networks	R00	N3		
N3-000469	Interworking between IM CN subsystem and circuit switched networks	R00	N3	N1, S4	CN#14
N3-000470	Interworking between IM CN subsystem and IP networks	R00	N3	N1, S4	CN#14

9.2 Liaison Statements

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

DOC N3-00	Subject	To	Cc	Attachment	Sent
N3-000486	Updated Iu UP CR on selection of PDU Type 1 for NT CS data services	R3	S4	N3-000424, N3-000425, N3-000426, N3-000427	07/09/00
N3-000487	Multimedia 32 kbit/s UDI/RDI in GSM/EDGE	N1		N3-000452, N3-000453, N3-000474, N3-000455 N3-000456 An LS from TSG-GERAN (GP-000384).	07/09/00
N3-000488	DHCP lease renewal	T2		N3-000401, N3-000411, N3-000457	07/09/00

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
N3-000456	03.10		R99	32kbit/s UDI/RDI multimedia	F	8.1.0	T.E.I
N3-000474	04.21		R99	32kbit/s UDI/RDI multimedia	F	8.0.0	T.E.I
N3-000455	08.20		R99	32kbit/s UDI/RDI multimedia	F	8.1.0	T.E.I
N3-000480	23.910		R99	3.1kHz multimedia at 33.6kbit/s	F	3.2.0	T.E.I
N3-000427	23.910		R00	Delivery of erroneous SDUs parameter value	A	3.1.0	TEI
N3-000426	23.910		R99	Delivery of erroneous SDUs parameter value	F	3.1.0	TEI
N3-000481	23.910		R00	3.1kHz multimedia at 33.6kbit/s	A	3.2.0	T.E.I
N3-000450	24 022		R99	Relevance of GSM specific BC-IE parameters for negotiating RLP version in UMTS	F	3.3.0	TEI
N3-000441	27 001		R00	UMTS clean-up	F	3.5.0	TEI
N3-000440	27 001		R99	UMTS clean-up	F	3.5.0	TEI
N3-000453	27.001		R99	32kbit/s UDI/RDI multimedia	F	3.5.0	T.E.I
N3-000459	27.001		R00	32kbit/s UDI/RDI multimedia	A	3.5.0	T.E.I
N3-000479	27.001		R00	3.1kHz multimedia at 33.6kbit/s	A	3.5.0	T.E.I
N3-000424	27.001		R99	Delivery of erroneous SDUs parameter value	F	3.5.0	TEI

TDoc #	Spec	CR #	Rel	Tdoc Title	CAT	C_Version	WI
N3-000425	27.001		R00	Delivery of erroneous SDUs parameter value	A	4.0.0	TEI
N3-000428	27.001		R00	Clarification related to RCR	D	4.0.0	TEI
N3-000430	27.001		R99	Modification from V.25bis to V.250	F	3.5.0	TEI
N3-000431	27.001		R00	Modification from V.25bis to V.250	A	4.0.0	TEI
N3-000478	27.001		R99	3.1kHz multimedia at 33.6kbit/s	F	3.5.0	T.E.I
N3-000432	27.002		R99	Modification from V.25bis to V.250	F	3.4.0	TEI
N3-000433	27.003		R99	Modification from V.25bis to V.250	A	3.4.0	TEI
N3-000477	29 007		R00	3.1kHz multimedia at 33.6kbit/s	A	3.6.0	T.E.I
N3-000476	29 007		R99	3.1kHz multimedia at 33.6kbit/s	F	3.6.0	T.E.I
N3-000429	29.001		R00	Clarification related to RCR	D	3.5.0	TEI
N3-000458	29.007		R00	32kbit/s UDI/RDI multimedia	A	3.5.0	T.E.I
N3-000452	29.007		R99	32kbit/s UDI/RDI multimedia	F	3.5.0	T.E.I

9.4 New TRs / TSs

None.

9.5 Summary of N3#12 Action Points

ACTION	OWNER	DESCRIPTION	TARGET DATE	STATUS
N3_12_01	Yahagi-San	contact the contact person to clarify the problem.	by N3#13	closed
N3_12_02	DAB	Provide clarification on the project plan 'Approval'	by N3#13	
N3_12_03	Norbert and DAB	Communicate N3's comments on project plan to the owners of the work items	by CN#09	
N3_12_04	Norbert	Communicate N3's comments on project plan to CN chair	by CN#09	
N3_12_05	DAB	Check to which version CRs to ex-GSM specs shall be made – update CRs as required	by 8/9/00	
N3_12_06	Juha	Nokia will provide a draft CR to N1 and present the LS in tdoc N3-0487 to the next N1 meeting	by next N1 meeting	

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 1st September at 12:30.
Norbert thanked the host for the excellent meeting location and arrangements. He also thanked all of the N3 delegates and David the N3 MCC support who have actively participated in the meeting [although he was not physically present].

Annex A: <PS SWG Report>

None in this Meeting.

Annex B: List of N3 Meeting Participants

The following delegates attended the CN3#12 meeting.

Title	Last Name	First Name	Company	Telephone	Fax	Email	Rep Partner
Mr.	Yokota	Daisuke	Lucent Technologies Japan Ltd.	81 3 5561 3609	81 3 5561 4011	yokota@lucent.com	TTC
Mr.	Räsänen	Juha	Nokia	358 40 5439058		Juha.a.rasanen@nokia.c	ETSI
Mr.	Colban	Erik	Ericsson	47 66 84 1844	47 66 98 1095	Erik.A.Colban@ericsson.no	ETSI
Mr.	Hagiwara	Junichiro	NTT DoCoMo	81 468 40 3971	81 468 40 3295	hagijyun@wsp.yrp.ntt.docomo.co.jp	TTC
Mr.	Poscher	Jens	Mannesmann Mobilefunk GmbH	49 211 533 2856	49 211 533 1470	jens.poscher@d2mannesmann.de	ETSI
Mr.	Wiik	Rune Werner	LM Ericsson	47 66 84 16 85	47 66 98 10 95	Rune.Werner.Wiik@ericsson.no	ETSI
Mr.	Nakatani	Tatsuya	Fujitsu Ltd.	81 44 754 3855	81 44 754 31 45	nakatani@mcws.ts.fujitsu.co.jp	ARIB
Mr.	Braun	Achim	Alcatel SEL	49 711 821 41817	49 711 821 41177	achim.braun@alcatel.de	ETSI
Dr.	Shahrier	Sharif	Interdigital	610 878 7814	610 878 7841	Sharif.Shahrier@interdigital.com	ETSI
Mr.	Klehn	Norbert	Siemens AG	49 30 386 29090	49 30 386 44255	Norbert.klehn@icn.siemens.de	ETSI
Mr.	Yahagi	Masahiko	NEC Corporation	81 471 85 7163	81 471 85 6862	Yamasa@mvc.biglobe.n	TTC
Mr.	Miura	Toshitaka	NTT DoCoMo	81 468 40 3732	81 468 40 3732	miu@net.yrp.nttdocomo.co.jp	TTC
Mrs.	Gilbertas	Claire	France Telecom	33 1 45 29 28 43		Claire.gilbertas@francetelecom.fr	ETSI
Mr.	Visser	John	Nortel Networks	1 613 763 7028		Jvisser@nortelnetworks.com	T1
Mrs.	Yang	Lucy	Motorola	1 847 435 0744		Lucy.Yang@motorola.com	T1

Annex C: List of documents

Full details can be found in the file *CN3#12-Tdoclist* on the meeting server.

TDoc #	Agenda	Type	Tdoc Title	Source	Spec	Rel	C_Version
N3-000395	2, 3	AGENDA	Draft Agenda for CN3#12	Norbert, N3 chair			
N3-000396	4.1	REPORT	Draft Report for CN3#11 Oslo Meeting	MCC			
N3-000397	7.1.1	CR	Correction for timer T4	Alcatel	24.022	R99	3.3.0
N3-000398	5	LS IN	Bearer Independent Circuit-Switched Core Network Work Split	N4			
N3-000399	5	LS IN	Specifying IuUP PDU Type in 3G TS 26.102	R3			
N3-000400	5	LS IN	Reply Liaison statement on Service Modification without Pre-Notification	S1			
N3-000401	7.1.4	CR	Interworking with DHCP	Alcatel, Achim	29.061	R99	3.3.0
N3-000402	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	29.007	R99	3.5.0
N3-000403	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	27.001	R99	3.5.0
N3-000404	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	04.21	R99	8.0.0
N3-000405	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	08.20	R99	8.1.0
N3-000406	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	03.10	R99	8.1.0
N3-000407	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	29.007	R99	3.5.0
N3-000408	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	27.001	R99	3.5.0
N3-000409	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	23.910	R99	3.2.0
N3-000410	7.1.4	Discussion	DHCP renewal procedure	Nokia			
N3-000411	7.1.4	CR	DHCP renewal procedure	Nokia	29.061	R99	3.4.0
N3-000412	7.1.2	Discussion	Behavior of HLR in Mobile Terminated Call	Nokia			
N3-000413	7.1.3	Discussion	H.323&H.245 mapping for ISDN	Nokia			
N3-000414	6.3	REPORT	meeting dates for 2001	chairman			
N3-000415	5	LS IN	Re:- LS on 3.1kHz calls at 33.6Kbit/s data rate	N1			
N3-000416	8.4	REPORT	Global Text Telephony - Status report	Ericsson, Rune			
N3-000417	7.1.1	CR	Correction for timer T4	Alcatel	24.022	R99	3.3.0
N3-000418	7.1.4	CR	DHCP lease	Alcatel	27.060	R99	3.4.0
N3-000419	7.1.4	Discussion	DHCP lease	Alcatel			
N3-000420	8.5	WID	Interworking between IM CN subsystem and circuit switched networks	N3 Chair		R00	
N3-000421	8.6	WID	Interworking between IM CN subsystem and IP networks	N3 Chair		R00	
N3-000422	6.1	Project Plan	3GPP project plan (hi-light N3)	MCC			
N3-000423	5	LS IN	Service Modification without Pre-notification	N3			
N3-000424	7.1.1.1	CR	Delivery of erroneous SDUs parameter value	Ericsson	27.001	R99	3.5.0
N3-000425	7.1.1.1	CR	Delivery of erroneous SDUs parameter value	Ericsson	27.001	R00	4.0.0
N3-000426	7.1.1.1	CR	Delivery of erroneous SDUs parameter value	Ericsson	23.910	R99	3.1.0
N3-000427	7.1.1.1	CR	Delivery of erroneous SDUs parameter value	Ericsson	23.910	R00	3.1.0
N3-000428	7.1.1.2	CR	Clarification related to RCR	Ericsson	27.001	R00	4.0.0
N3-000429	7.1.1.2	CR	Clarification related to RCR	Ericsson	29.001	R00	3.5.0
N3-000430	7.1.1.3	CR	Modification from V.25bis to V.250	Ericsson	27.001	R99	3.5.0
N3-000431	7.1.1.3	CR	Modification from V.25bis to V.250	Ericsson	27.001	R00	4.0.0
N3-000432	7.1.1.3	CR	Modification from V.25bis to V.250	Ericsson	27.002	R99	3.4.0
N3-000433	7.1.1.3	CR	Modification from V.25bis to V.250	Ericsson	27.003	R99	3.4.0
N3-000434	8.7	Discussion paper	Interworking with AAL2/ATM networks	Ericsson		R00	
N3-000435	6.1	mail	CN chair's report from Helsinki planning meeting	CN Chair			
N3-000436	6.1	REPORT	Draft summary report from Helsinki meeting	MCC			
N3-000437	6.1	Project Plan	3GPP project plan (hi-light N3)	MCC			

TDoc #	Agenda	Type	Tdoc Title	Source	Spec	Rel	C_Version
N3-000438	4.2	mail	CN chair's report from PCG#4/OP#3 meeting	CN Chair			
N3-000439	4.2	mail	SA2 chair's information on split of 23.821	SA2 Chair			
N3-000440	7.1.1	CR	UMTS clean-up	Ericsson Siemens	27 001	R99	3.5.0
N3-000441	7.1.1	CR	UMTS clean-up	Ericsson Siemens	27 001	R00	3.5.0
N3-000442	8.3	Discussion paper	Time Schedule for Service Modification without Pre-notification	NEC		R00	
N3-000443	8.3	REPORT	Report of N1 meeting regarding to Service Modification without pre-notification	NEC		R00	
N3-000444	3	AGENDA	Allocation of documents to agenda items	N3 Chair			
N3-000445	4.1	REPORT	Draft Report for CN3#11 Oslo Meeting	MCC			
N3-000446	Joint session with N4	Project Plan	Modifications to 3GPP Project Plan for R00 v.1.3	Joint session with N4			
N3-000447	Joint session with N4	WID	Bearer Independent Circuit-Switched Core Network	Joint session with N4			
N3-000448	Joint session with N4	Discussion paper	Necessary N4 works for SMWOP (Service Modification without Pre-negotiation)	NEC			
N3-000449	3	AGENDA	Allocation of documents to agenda items	N3 Chair			
N3-000450	7.1.1	CR	Relevance of GSM specific BC-IE parameters for negotiating RLP version in UMTS	Alcatel	24 022	R99	3.3.0
N3-000451	8.3		Status of LS from S1	NEC			
N3-000452	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	29.007	R99	3.5.0
N3-000453	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	27.001	R99	3.5.0
N3-000454	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	04.21	R99	8.0.0
N3-000455	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	08.20	R99	8.1.0
N3-000456	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	03.10	R99	8.1.0
N3-000457	7.1.4	CR	DHCP lease	Alcatel	27.060	R99	3.4.0
N3-000458	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	29.007	R00	3.5.0
N3-000459	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	27.001	R00	3.5.0
N3-000460	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	29 007	R99	3.6.0
N3-000461	8.8	TS	TS 33.102 version 3.5.0	S3			
N3-000462	8.8	TS	TS 33.103 version 3.3.0	S3			
N3-000463	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	27.001	R99	3.5.0
N3-000464	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	23.910	R99	3.2.0
N3-000465	8.8	Discussion	Security Impacts on CN3	Motorola			
N3-000466	3	AGENDA	Allocation of documents to agenda items	N3 Chair			
N3-000467	5	LS IN	Updated Iu UP CR on selection of PDU Type 1 for NT CS data services	R3			
N3-000468	5	LS IN	Proposed Answer to LS on 32 kbit/s UDI/RDI multimedia	GERAN			
N3-000469	8.5	WID	Interworking between IM CN subsystem and circuit switched networks	N3		R00	
N3-000470	8.6	WID	Interworking between IM CN subsystem and IP networks	N3		R00	
N3-000471	8.7	WID	IWF at the Edge	N3		R00	
N3-000472	7.1.4	Discussion	DHCP Mechanisms	Motorola			
N3-000473	5	LS OUT	LS on Updated Iu UP CR on selection of PDU Type 1 for NT CS data services	Ericsson			
N3-000474	7.1.3	CR	32kbit/s UDI/RDI multimedia	Nokia	04.21	R99	8.0.0
N3-000475	7.1.3	LS OUT	LS on Multimedia 32 kbit/s UDI/RDI in GSM/EDGE	Nokia			
N3-000476	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	29 007	R99	3.6.0
N3-000477	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	29 007	R00	3.6.0
N3-000478	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	27.001	R99	3.5.0
N3-000479	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	27.001	R00	3.5.0
N3-000480	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	23.910	R99	3.2.0
N3-000481	7.1.3	CR	3.1kHz multimedia at 33.6kbit/s	Nokia	23.910	R00	3.2.0

TDoc #	Agenda	Type	Tdoc Title	Source	Spec	Rel	C_Version
N3-000482	7.1.3	LS OUT	Re:- LS to N1 on 3.1kHz calls at 33.6Kbit/s data rate	Nokia			
N3-000483	7.1.4	LS OUT	Draft LS to T2 on DHCP lease renewal	Alcatel			
N3-000484	7.1.3	LS OUT	LS on Multimedia 32 kbit/s UDI/RDI in GSM/EDGE	Nokia			
N3-000485	7.1.4	LS OUT	Draft LS to T2 on DHCP lease renewal	Alcatel			
N3-000486	5	LS OUT	LS on Updated Iu UP CR on selection of PDU Type 1 for NT CS data services	Ericsson			
N3-000487	7.1.3	LS OUT	LS on Multimedia 32 kbit/s UDI/RDI in GSM/EDGE	Nokia			
N3-000488	7.1.4	LS OUT	Draft LS to T2 on DHCP lease renewal	Alcatel			
N3-000489		REPORT	Draft meeting report CN#12	MCC			
N3-000490		REPORT	CN3 Status Report to CN#9	N3 Chair			
N3-000491	7.1.1.3	CR	Modification from V.25bis to V.250	Ericsson	27.002	R00	3.4.0

Annex D: Status of N3 Specifications after TSG_N#8

	2G	TITLE	R96	R97	R98	R99	Last CR	3G TR / TS	TITLE	R99	Last CR	Rapporteur Company	Comments
TS	03.10	GSM PLMN Connection Types	5.4.0	6.0.0	7.0.1	8.1.0	A011	23.910	Circuit switched data services	3.1.0	008-	Achim Braun, Alcatel	
TS	03.45	Technical Realization of Fax G.3 Service-transparent	5.2.1	6.0.1	7.0.0	8.0.0	A004 r1	X	X	X	X		GSM ONLY including R99
TS	03.46	Technical Realization of Fax G.3 Service-Non-transparent	5.0.0	6.0.0	7.0.0	8.0.0	A012	23.146	Technical realization of facsimile group 3 non-transparent	4.0.0	-	J. Hagiwara, NTT	
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	A007	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	A002	X	X	X	X		GSM ONLY - Not required after R98
TS	04.21	Rate Adaptation on MS-BSS Interface	5.7.0	6.1.0	7.1.0	8.1.0	A018	X	X	X	X	Juha Räsänen, Nokia	GSM ONLY including R99
TS	04.22	Radio Link Protocol for Data and Telematic services on the MS-BSS and the MS-MSC Interfaces	5.6.0	6.2.0	7.1.0	X	A026 r1	24.022	Radio Link Protocol for Data and Telematic services on the MS-BSS and the MS-MSC Interfaces	3.3.0	004	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	A038	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations	3.5.0	023r1	Erik Colban, Ericsson	
TS	07.02	TAF for services using Asynch bearer capabilities	5.5.1	6.0.0	7.0.1	X	A014	27.002	TAF for services using Asynch bearer capabilities	3.4.0	004	Erik Colban, Ericsson	
TS	07.03	TAF for services using Synch bearer capabilities	5.4.1	6.0.0	7.0.0	X	A011	27.003	TAF for services using Asynch bearer capabilities	3.4.0	006	Erik Colban, Ericsson	
TS	07.60	Mobile Station (MS) Supporting GPRS	5.1.0	6.5.0	7.1.0	X	A020	27.060	Mobile Station (MS) supporting Packet Switched Services	3.5.0	021	Graham Heaton, Brand	
TS	08.20	Rate Adaptation on BSS - MSS Interface	5.3.0	6.0.0	7.0.1	8.1.0	A007	X	X	X	X	Juha Räsänen, Nokia	GSM ONLY including R99
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	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	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	010	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	A003	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	A056	29.007	General requirements on interworking between PLMN and ISDN or PSTN	3.5.0	021	N. Klehn, Siemens	
TS	09.61	Interworking between the PLMN supporting GPRS and Packet Data Networks (PDN)	X	6.4.0	7.2.0	X	A015	29.061	Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based Services and Packet Data Networks (PDN)	3.3.0	013	G. Heaton, Brand Comms	

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 <u>MUST</u> 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 <u>archive of every email sent</u> 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

<table>
<tr><td colspan="2" align="center">**Document History**</td></tr>
<tr><td>6th September 2000</td><td>Draft v1.0.0 distributed to CN3 chairman for comments</td></tr>
<tr><td>7th September 2000</td><td>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 Support
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 22nd September 2000</td></tr>
<tr><td>*16th October 2000*</td><td>*Updated DRAFT v2.0.0 distributed by mail and placed to the server*</td></tr>
<tr><td>*2000*</td><td>*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..*</td></tr>
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