



Third Generation Partnership Project

MEETING REPORT v3.0.0

3GPP TSG-CN3 Meeting # 16

Sophia, France.
26th Feb - 2nd March 2001



Hosted by

ETSI

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1 Opening of the Meeting

The 16th CN3 meeting took place from 26th Feb - 2nd March in the ETSI Main building, Sophia France.

David Boswarthick welcomed the CN3 delegates to Sophia on behalf of ETSI, and explained the logistical details for the rest of the week.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 11:00 on Monday 26th. He set the objectives for the meetings as follows:

?? **Complete all work for Rel-4**

?? **Move forward with work on Rel-5**

2 Approval of the Agenda

N3-010091: CN3#16 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#16 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 two joint sessions in the same week;

Joint CN1_CN2_CN3_CN4_02 meeting on 24.228 on Tuesday afternoon and the joint CN3_CN4 on BI CN CC (mainly Nb interface) on Thursday all day. The meeting reports for these meetings can be found in sections 9 and 10 of the agenda and this meeting report.

RESULT: The Agenda was **APPROVED**.

3 Registration of documents

The meeting documents are available on the 3GPP server:-

[ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_16_\(Sophia\)/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_16_(Sophia)/)

N3-010092: Allocation of documents to Agenda items for CN3#16. Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items.

DISCUSSION: It was agreed that it was not a requirement for Norbert to update and distribute this document during the meeting, and that delegates should keep track of changes individually.

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

4 Reports

4.1 CN3#15 Meeting Report, (Beijing)

The meeting report can be found at:

[ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_15_\(Beijing\)/Report/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_15_(Beijing)/Report/)

N3-010093: CN3#15 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#15 held in Beijing.

The CN3#15 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.

DISCUSSION: Ericsson requested the withdrawal of a number of contributions from the last meeting. It was agreed that each modification would be discussed individually under the corresponding agenda item and the modifications reflected in the CN3#15 meeting report as editors notes.

RESULT: The document was **REVISED to 0142.**

? **REVISED?**

N3-010142: Rev. CN3#15 Draft Meeting Report. Presented by David Boswarthick, MCC.

RESULT: The document was **APPROVED.**

Review of action items from CN3#15:

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_14_04	Masahiko	Ensure a contribution on future of SMWOP is made to the SA1 meeting, report back to CN3	before CN3#15	CN3 status contribution has not been presented to SA1, but Masahiko has presented the issues verbally.	OPEN
N3_15_01	Rapporteurs	Check the specifications to ensure they align with the UE terminology (see CR to 23.101)	before CN3#16		OPEN
N3_15_02	J. Wilde	Provide the Motorola CR on Asymmetric Transfer Delay to the CN3 email exploder. Delegates will discuss if this has any impact on CN3's work	before End Jan 2001	CS services are only defined for symmetric transfer - there is therefore no impact on CN3s specifications	DONE
N3_15_03	David, MCC	feed back the changes to the 3GPP project plan to Alain Sultan	before CN3#16		DONE
N3_15_04	David, MCC	Feed back the changes to the CN3 specification list to John Meredith.	before CN3#16		DONE
N3_15_05	David, MCC	Send out an e-mail to the CN3 email exploder announcing the CN3 elections	before End Jan 2001		DONE
N3_15_06	Achim	Check the details relating to the A-TRAU' document	before CN3#16		DONE
N3_15_07	Masahiko	Create a new WID for Service Modification WITH Pre-notification and present it to CN3#16 - this will be based on N3-010049	before CN3#16		OPEN
N3_15_08	BT	Update the WID for Interworking between IM Subsystems and CS and present it at CN3#16 meeting	before CN3#16		DONE

4.2 Reports from Other Groups

4.3 IPR Disclosures

The Chairman reminded delegates of the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were invited :

- ?? to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups
- ?? to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms

5 Liaisons from other groups

N3-010116: LS IN from SA1 on Interworking between IM domain and CS Networks.

CONTENT: SA1 clarify that it shall be possible to have basic voice calls between IMS users and users in CS domain/PSTN-style networks and SA1 has produced a CR to IMS stage 1 (22.228) to clarify this issue.

Also, SA1 have not identified any requirements for interworking between IP multimedia services and CS domain multimedia services for release 5.

DISCUSSION: CN3 must check the impact of this on the WID.

This LS was also seen in the joint CN1_CN2_CN3_CN4_02 meeting.

The document was also discussed under Agenda Item 9.2 of the CN3 meeting.

RESULT: The document was **NOTED**.

N3-010117: LS IN from SA1 on Control of IP multimedia services.

CONTENT: SA1 clarify that SA1 drives requirements (and not implementation mechanisms) and S1 does not consider the CAP/OSA/SIP as alternatives, but instead requires that the functionality provided by the 3 mechanisms be supported in Release 5 as relevant for the control of IP multimedia services.

DISCUSSION: This LS is mainly for the attention of CN1 and was forwarded to the joint CN1_CN2_CN3_CN4_02 meeting.

RESULT: The document was **NOTED**.

N3-010121: LS IN from SA2 on Control of IP multimedia services.

CONTENT: TSG SA2 understands the need to choose the protocol(s) for the interface between S-CSCF and application platform. SA2 intends to take this decision at its next meeting.

DISCUSSION: This LS is mainly for the attention of CN1 and was forwarded to the joint CN1_CN2_CN3_CN4_02 meeting.

RESULT: The document was **NOTED**.

N3-010118 LS IN from SA2 on QoS Work Distribution

CONTENT: TSG SA2 would appreciate further discussions with TSG CN3, to clarify the QoS related stage three work that is needed. The group propose the result of SA2 QoS drafting group to be presented to TSG CN3 on an ordinary CN3 meeting. As a number of crucial QoS related issues still are under study, we propose the presentation to be done on CN3#17, May 14 - 18, when the stage two specification for QoS are more stable.

DISCUSSION: Erik mentioned that the SA2 meeting will take place in the same week as the CN3#17 meeting. SA2 has a host in Cardiff, CN3 has a host in USA. The logistics of this are still under discussion. Later in the meeting it was clarified by the CN Chairman that both of the groups will meet in Puerto Rico.

There is presently no WID for QoS. It was previously included in the WID for Interworking between multimedia and IP, however due to lack of information it was removed to allow this WID to be approved. It is likely that the necessity get a new QoS WID or integration into the existing WID will be studied after the May meeting.

SA2 will make a presentation to CN3 in the May meeting. CN3 will await this presentation to decide what work is required for stage 3. CN3 consider that there will be more work than simple interworking for QoS and therefore a new WID will be required, (as opposed to including QoS elements in existing CN3 WIDs for Rel-5).

RESULT: The document was **NOTED**.

N3-010119 LS IN from SA2 on Optimised IP Speech Support in GERAN

CONTENT: TSG-SA2 informs TSG-GERAN on several issues related to optimised IP speech support in GERAN. TSG_CN WG3 are copied for information.

DISCUSSION: The content of this LS does not relate to any of the CN3 work.

RESULT: The document was **NOTED**.

N3-010120 LS IN from SA2 on Removal of visited Control C-CSCF option from Rel-5 architecture.

CONTENT: TSG-SA2 inform the relevant WGs of the decision taken in SA2#16 where Visited control option for selection of the S-CSCF & service control in the visited domain for IP MM CN subsystem has been removed from Release 5 architecture.

DISCUSSION: Mainly relevant for CN1.

RESULT: The document was **NOTED**.

N3-010122 LS IN from SA2 on replacement of 21.121 for Rel-4 onwards. Presented by Daisuke of Lucent.

CONTENT: TSG-SA WG2 ask that all TSG WGs be aware that TS 23.121 will not be part of the 3GPP specification set from R4 onwards. TS 23.121 has been replaced by TS 23.221. TSG-SA WG2 asks all WGs to check their R4/R5 specifications for references to TS 23.121 and to remove these or replace them (if appropriate) with TS 23.221 by TSG#11.

DISCUSSION: CN3 do not presently have any Rel-5 specifications. However the CN3 rapporteurs are asked to check the Rel-4 specifications to see if they have references to TS 23.121. If there are references CRs need to be made this week in order to be presented to TSG#11

CN# rapporteurs are to check their Rel-4 specifications and provide CRs to remove eventual references to TS 21.121

RESULT: The document was **NOTED**.

Status Check on LSs sent from Previous CN3 Meetings

T-DOC	Subject	To	Cc	Attachment	Sent	Status
N3-000486	Updated lu 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	Seen at R3#16 Not seen until S4#15 (22 - 26 Jan)
N3-000607	CS Bearers	SA1	RAN3	none	15/11/00	Not seen until R3#17 (22 - 26 Jan) S1#11 (??)
N3-000610	RTCP responsibility	CN1	-	none	16/11/00	Seen at N1#15 (15 - 19 Jan)
N3-010088	requesting clarification on interworking between IM domain and CS networks	SA, SA1	SA2, CN1	None	23/01/01	Seen by SA1#11

6 Administrative issues

6.1 Project Co-ordination.

N3-010094: **3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#10 plenary including several updates from WGs.

DISCUSSION: The project plan was discussed at the end of the meeting, in order to allow progress from the meeting to be reflected in the update. The Work Items where CN3 have responsibilities were verified on-line.



[ACTION N3_16_01] - David will feed back the changes to the 3GPP project plan to Alain Sultan

RESULT: The document was **REVIEWED**.

6.2 Terms of Reference / Future Work

It has been agreed that in order to reduce the workload of CN4, the GTP work will become the responsibility of CN3. This means TS 29.060 will become the responsibility of CN3. However the CN4 chairman has some concerns that this will cause lots of liaisons / joint sessions with CN4, so the state of GTP ownership will be reviewed at the end of 2001.

N3-010143: **Status list of CN3 Specifications.** Presented by David, MCC.

CONTENT: Contains the list of CN3 specifications including version and rapporteur information.

DISCUSSION: Each specification was briefly presented and the need for a Rel-4 equivalent decided on a case by case basis.

Johanna offered to be rapporteur for 09.61.



[ACTION N3_16_02] - David will feed back the changes to the 3GPP specifications manager

RESULT: The document was **REVIEWED**.

N3-010144: **Updated CN3 ToR.** Presented by CN3 chair.

CONTENT: Contains the CN3 ToR with updates for the move of GTP from CN4 to CN3.

DISCUSSION: Some changes were made to the titles of the specification. Include 29.414 and 29.415.

RESULT: The document was **REVISED to 0163**.

? REVISED?

N3-010163: **Updated CN3 ToR.** Presented by CN3 chair.

CONTENT: Contains the CN3 ToR with updates for the move of GTP from CN4 to CN3.

DISCUSSION: Some changes were made to the titles of the specification. Include 29.414 and 29.415.

RESULT: The document was **AGREED [Changes of the responsibility for GTP will also be discussed in joint CN3_CN4_02 meeting]**.

6.3 Next meetings, allocation of hosts

Meeting	Date	Location, Host	Comments
TSG-CN#11	14 th – 16 th Mar 2001	Palm Springs, USA - NA Friends	Deadline for Completion of Rel-4
TSG-CN3#17	14 th – 18 th May 2001	(Puerto Rico), USA, - NA Friends,	Co-located CN1,CN2,CN3,CN4 and SA2
TSG-CN#12	13 th – 15 th June 2001	Stockholm, Sweden - Ericsson	
TSG-CN3#18	9 th – 13 th July 2001	Dresden, Germany - Manesmann	Co-located CN1,CN2,CN3,CN4
TSG-CN#10	19 th – 21 st Sept 2001	China - Lucent	
TSG-CN3#19	15 th – 19 th Oct 2001	Brighton UK, Vodafone & BT	Co-located CN1,CN2,CN3,CN4
TSG-CN3#20	26 th – 30 th Nov 2001	Unknown, NA Friends	Co-located CN1,CN2,CN3,CN4
TSG-CN#14	12 th – 14 th Dec 2001	Japan, TTC	Deadline for Completion of Rel-5

6.4 Election of TSG_CN WG3 Officials

As the term of the CN3 Officials expires in March and May 2001, it was decided at CN3#15 meeting to hold elections for the positions of CN3 Chairman and Vice chairman. This would mean that the results of these elections could be ratified at TSG_CN#11 meeting.

The Elections for CN3 Officials was carried out at 09:00 on 27th February.

As an introduction, the present chairman Mr Norbert Klehn provided a brief history of TSG_CN WG3 and the main achievements of the group over the past 2 years.

N3-010132: Candidature for Norbert Klehn.

CONTENT: Contains the candidature and letter of support for Mr Norbert Klehn for the position of CN3 Chairman.

DISCUSSION: There was only a single candidate for the position of CN3 chairman.

Mr Norbert Klehn was re-elected by acclamation as the chairman of CN3 for a period of 2 years.



[ACTION N3_16_03] - David will ensure this information is updated on the web site and the results will be ratified by CN Plenary #11.

RESULT: The document was **APPROVED**.

It was noted that there was no candidature for the position of CN3 Vice Chair. The current Vice chair Mr Achim Braun will not re-present his candidature. Norbert thanked Achim for all his excellent work in CN3, both as vice chairman, and rapporteur.

This means that CN3 has no Vice chair following the CN3#16.

David B suggested that this situation be re-examined when the workload increases for Rel-5 and beyond.

7 Release 99 and earlier:

NOTE: *R99 and earlier releases have been Functionally Frozen.*

Only CAT F (essential correction) and CAT A (corresponds to a correction in an earlier release) CRs are allowed for these Releases. The subcategories for CAT F CRs should be considered when agreeing essential CRs.

7.1 CS Bearers

N3-010102: **Discussion Document on Clarifications on A-TRAU'**. Presented by Achim of Alcatel
CONTENT: Alcatel propose to map A-TRAU' frames on octet boundaries of the PCM time slots. This would allow a simplified implementation of the A-TRAU' synchronization and synchronization supervision procedure within the rate adaptor entity.
DISCUSSION: Ericsson previously had requested from Alcatel to check whether there is a similar requirement for alignment for A-TRAU frames. Alcatel could inform that that is not the case. Ericsson expressed no further concerns with the proposal.
RESULT: The principle contained within the document was **APPROVED**.

N3-010100: **CR to 29.007 v370 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains (CAT F) CR that corrects mapping of A-TRAU' frames to PCM for **Rel-99**.
DISCUSSION: Modification to header layout
RESULT: The document was **REVISED to 0164**.

? **REVISED?**

N3-010164: **Rev. CR to 29.007 v370 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains (CAT F) CR that corrects mapping of A-TRAU' frames to PCM for **Rel-99**.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE?**

N3-010165: **CR to 29.007 v420 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains corresponding (CAT A) CR that corrects mapping of A-TRAU' frames to PCM time slots for **Rel-4**.
RESULT: The document was **AGREED**

N3-010101: **CR to 23.910 v320 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains (CAT F) CR that corrects mapping of A-TRAU' frames to PCM time slots for **Rel-99**.
DISCUSSION: Modification to header layout
RESULT: The document was **REVISED to 0166**.

? **REVISED?**

N3-010166: **Rev. CR to 23.910 v370 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains (CAT F) CR that corrects mapping of A-TRAU' frames to PCM time slots for **Rel-99**.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE?**

N3-010167: **CR to 23.910 v410 "A-TRAU' correction"**. Presented by Achim of Alcatel
CONTENT: Contains corresponding (CAT A) CR that corrects mapping of A-TRAU' frames to PCM time slots for **Rel-4**.
RESULT: The document was **AGREED**

N3-0100104: **CR to 27.001 v370 " RAB- assignment request "**. Presented by Rune of Ericsson.
CONTENT: Contains **(CAT F)** CR that Corrects the table in B.1.13.2 for **Rel 99**.
DISCUSSION: WI CS Bearers added.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-0100106: **CR to 27.001 v420 " RAB- assignment request "**. Presented by Rune of Ericsson.
CONTENT: Contains the corresponding **(CAT A)** CR that Corrects the table in B.1.13.2 for **Rel-4**.
DISCUSSION: WI CS Bearers added.
RESULT: The document was **AGREED**

N3-0100105: **CR to 23.910 v330 " RAB- assignment request "**. Presented by Rune of Ericsson.
CONTENT: Contains **(CAT F)** CR that Corrects the table in B.1.13.2 for **Rel 99**.
DISCUSSION: WI CS Bearers added.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-0100107: **CR to 23.910 v410 " RAB- assignment request "**. Presented by Rune of Ericsson.
CONTENT: Contains the corresponding **(CAT A)** CR that Corrects the table in B.1.13.2 for **Rel-4**.
DISCUSSION: WI CS Bearers added.
CR made to wrong version (should be v410). Rune will check the text of this CR does not clash with the later version.
No clash was found in the text hence the Cover sheet was changed.
RESULT: The document was **AGREED**.

N3-010108: **CR to 27.001 v370 " Removal of the blocking of higher modem speeds and editorial changes "**. Presented by Rune of Ericsson.
CONTENT: Contains a **(CAT F)** CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel 99.
DISCUSSION: **THIS CR REPLACES N3-010085 that was AGREED at CN3#15. Subsequent errors were found in that document and these are corrected in this CR.**
Norbert requested a change to the Notes to harmonise them throughout the specification.
It was noted that there are problems visualising the changes to the EXCEL figures.
It was agreed that the changes be highlighted by colour code - **BLUE for deleted text** and **green for inserted text**.
RESULT: The document was **REVISED to 0145**.

? **REVISED ?**

N3-010145: **Rev. CR to 27.001 v370 " Removal of the blocking of higher modem speeds and editorial changes "**. Presented by Rune of Ericsson.
CONTENT: Contains a **(CAT F)** CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel 99.
DISCUSSION: **Misleading cover page - note must be removed**
RESULT: The document was **REVISED to 0168**.

? **REVISED ?**

N3-010168: Rev. CR to 27.001 v370 " Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains a (CAT F) CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel 99.

RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-0100109: CR to 27.001 v420 " Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains the corresponding (CAT A) CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel-4.

DISCUSSION: **THIS CR REPLACES N3-010084 that was AGREED at CN3#15. Subsequent errors were found and these are corrected in this CR.**

Norbert requested a change to the Notes to harmonise them throughout the specification.

It was noted that there are problems visualising the Changes to the EXCEL figures.

It was agreed that the changes be highlighted by colour code - **BLUE for deleted text** and **green for inserted text**.

RESULT: The document was **REVISED to 0146**

? **REVISED ?**

N3-0100146: Rev. CR to 27.001 v420 " Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains the corresponding (CAT A) CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel-4.

DISCUSSION: Indication of the changes in the tables need to be provided

RESULT: The document was **WITHDRAWN**

? **REPLACED BY?**

N3-0100158: CR to 27.001 v420 " Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains the corresponding (CAT A) CR that Adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors. for Rel-4.

RESULT: The document was **AGREED**

N3-0100125: CR to 27.001 v370 " Handover for 56 kbit/s ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT F) CR that Deletes flow diagram B.1.3.1.7 (Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)) for **Rel 99**.

DISCUSSION: Requires addition of a reference to the section where there is duplicated information can be found. [B.1.3.1.3 and B.1.3.1.4].

RESULT: The document was **REVISED to 0147**.

? **REVISED ?**

N3-0100147: Rev. CR to 27.001 v370 " Handover for 56 kbit/s ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT F) CR that Deletes flow diagram B.1.3.1.7 (Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)) for **Rel 99**.

RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-0100126: **CR to 27.001 v420 " Handover for 56 kbit/s "**. Presented by Rune of Ericsson.
CONTENT: Contains the corresponding **(CAT A)** CR that Deletes flow diagram B.1.3.1.7 (Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)) for **Rel-4**.
DISCUSSION: Requires addition of a reference to the section where there is duplicated information can be found. [B.1.3.1.3 and B.1.3.1.4].
RESULT: The document was **REVISED to 0148**.

? **REVISED?**

N3-0100148: **Rev. CR to 27.001 v420 " Handover for 56 kbit/s "**. Presented by Rune of Ericsson.
CONTENT: Contains the corresponding **(CAT A)** CR that Deletes flow diagram B.1.3.1.7 (Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)) for **Rel-4**.
RESULT: The document was **AGREED**.

N3-0100133: **CR to 22.002 " Clarification on Circuit Switched Bearer Services in UMTS "**. Presented by Norbert of Siemens.
CONTENT: Contains a CR that tidies up **22.002 for R99**. SA1 have created a set of 4 CRs to their specifications that tidy up the text following comments from CN3 on Circuit Switched Bearer Services in UMTS. These CRs are presented to CN3 for information.
RESULT: The document was **NOTED**.

N3-0100134: **CR to 22.002 " Clarification on Circuit Switched Bearer Services in UMTS "**. Presented by Norbert of Siemens.
CONTENT: Contains the corresponding CR that tidies up **22.002 for Rel-4**.
RESULT: The document was **NOTED**.

N3-0100135: **CR to 22.002 " Clarification on Circuit Switched Bearer Services in UMTS "**. Presented by Norbert of Siemens.
CONTENT: Contains an editorial CR that removes redundant nodes from **22.002 for Rel-4**
RESULT: The document was **NOTED**.

N3-0100136: **CR to 22.002 " Restructuring of tables in section 3.1 "**. Presented by Norbert of Siemens.
CONTENT: Contains a CR that restructures the tables in section 3.1 of **22.002 for Rel-4**
RESULT: The document was **NOTED**.

N3-0100137 **CR to 23.910 v330 " Correction of the scope of service "**. Presented by Norbert of Siemens.
CONTENT: Contains **(CAT F)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel 99**.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE?**

N3-0100138 **CR to 23.910 v410 " Correction of the scope of service "**. Presented by Norbert of Siemens.
CONTENT: Contains the corresponding **(CAT A)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel-4**.
DISCUSSION: Change to Section 5.1 title 'Bearer Capabilities for UMTS Data Services'
RESULT: The document was **REVISED to 0149**.

? REVISED?

N3-0100149 **Rev. CR to 23.910 v410 " Correction of the scope of service "**. Presented by Norbert of Siemens.

CONTENT: Contains the corresponding **(CAT A)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel-4**.

RESULT: The document was **AGREED**.

N3-0100139 **CR to 27.001 v370 " Correction of the scope of service "**. Presented by Norbert of Siemens.

CONTENT: Contains a **(CAT F)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel 99**.

DISCUSSION: Change to Section 5.1 title 'Bearer Capabilities for UMTS Data Services'

RESULT: The document was **REVISED to 0150**.

? REVISED?

N3-0100150 **Rev. CR to 27.001 v370 " Correction of the scope of service "**. Presented by Norbert of Siemens.

CONTENT: Contains a **(CAT F)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel 99**.

DISCUSSION: Note added to 28.8 in table B.5a [in the case of ITC=UDI].

RESULT: The document was **AGREED**.

? CORRESPONDING CR TO LATER RELEASE ?

N3-0100151 **Rev CR to 27.001 v420 " Correction of the scope of service "**. Presented by Norbert of Siemens.

CONTENT: Contains the corresponding **(CAT A)** CR that refines the definition of the scope of circuit switched Bearer Services in alignment with TS 22.002 for **Rel-4**

RESULT: The document was **AGREED**.

7.2 Multimedia

No Input to this agenda item

7.3 GPRS

N3-010112: **CR to 07.60 v7.1.0 "Removal of IHOSS and OSP"**. Presented by Erik of Ericsson.

CONTENT: Contains **(CAT F)** CR that deletes the OSP and IHOSS from the specification text for **Rel 98**.

DISCUSSION: The CRs to 02.60, 03.60, 04.08 and 09.60 have already been made by Ericsson. The CR to 09.61 will be presented this to this meeting. The CR to 07.07 will be produced later by Ericsson.

RESULT: The document was **AGREED**.

? CORRESPONDING CR TO LATER RELEASE ?

N3-010114: **CR to 27.060 v3.4.0 "Removal of IHOSS and OSP"**. Presented by Erik of Ericsson.

CONTENT: Contains the corresponding **(CAT A)** CR that deletes the OSP and IHOSS from the specification text for **Rel 99**.

DISCUSSION:

RESULT: The document was **AGREED**.

N3-010113: CR to 09.61 v7.2.0 "Removal of IHOSS and OSP". Presented by Erik of Ericsson.
CONTENT: Contains (CAT F) CR that deletes the OSP and IHOSS from the specification text for Rel 98.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-010115: CR to 29.061 v3.4.0 "Removal of IHOSS and OSP". Presented by Erik of Ericsson.
CONTENT: Contains the corresponding (CAT A) CR that deletes the OSP and IHOSS from the specification text for Rel 99.
RESULT: The document was **AGREED**.

7.4 Technical Enhancements & Improvements (TEI)

N3-010096: CR to 08.20 v5.3.0 "Correction to downgrading procedure for HSCSD". Presented by Norbert of Siemens.
CONTENT: Contains (CAT F) CR that corrects downgrading procedure for HSCSD for Rel 96.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-010097: CR to 08.20 v6.0.0 "Correction to downgrading procedure for HSCSD". Presented by Norbert of Siemens.
CONTENT: Contains the corresponding (CAT A) CR that corrects downgrading procedure for HSCSD for Rel 97.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-010098: CR to 08.20 v7.0.1 "Correction to downgrading procedure for HSCSD". Presented by Norbert of Siemens.
CONTENT: Contains the corresponding (CAT A) CR that corrects downgrading procedure for HSCSD for Rel 98
RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-010099: CR to 08.20 v8.3.0 "Correction to downgrading procedure for HSCSD". Presented by Norbert of Siemens.
CONTENT: Contains the corresponding (CAT A) CR that corrects downgrading procedure for HSCSD for Rel 99
RESULT: The document was **AGREED**.

8 Release 4:

8.1 CS Multimedia Swap & Fallback

[✂️ CN3 consider their work to this Work Item as 0% Complete](#)

No contributions to this agenda item.

NEC and NTT DoCoMo have announced at CN3#15 to create a new work item on service modification with pre-notification as result of the discussion on possible solutions for bearer modifications. However, they are presently studying the way forward for SMWOP, and will make presentations to CN3#17 meeting

8.2 RT Facsimile [FAX-RT]

[✂️ CN3 consider their work to this Work Item as 100% Complete for Rel-4. The exercise](#)

of removing FAX NT for GSM for Rel-4 is also considered complete.

N3-010095: CR to 29.007 v4.1.0 "Removal of Fax NT from GSM for Rel-4". Presented by Norbert of Siemens.

CONTENT: Contains (CAT F) CR that removes text referring to services BS 30 NT, the basic packet access and recently the Fax NT service in GSM for Rel 99.

DISCUSSION: Grammatical changes were made to the text.

RESULT: The document was REVISED to 0152.

? REVISED?

N3-010152: Rev. CR to 29.007 v4.1.0 "Removal of Fax NT from GSM for Rel-4". Presented by Norbert of Siemens.

CONTENT: Contains (CAT F) CR that removes text referring to services BS 30 NT, the basic packet access and recently the Fax NT service in GSM for Rel 99.

RESULT: The document was AGREED.

N3-010110: CR to 27.001 v4.2.0 "Removal of Fax NT from GSM for Rel-4". Presented by Rune of Ericsson Replaces 089.

CONTENT: Contains (CAT F) CR that removes text referring to services BS 30 NT, the basic packet access and recently the Fax NT service in GSM for Rel 99.

DISCUSSION: THIS CR REPLACES N3-010089 that was AGREED at CN3#15. This new CR changes the layout of the tables to provide consistency to other changes.

The editorial part of this CR were later moved to another merged CR (0156)

RESULT: The document was REVISED to 0157.

? REVISED?

N3-010157: Rev. CR to 27.001 v4.2.0 "Removal of Fax NT from GSM for Rel-4". Presented by Rune of Ericsson Replaces 089.

CONTENT: Contains (CAT F) CR that removes text referring to services BS 30 NT, the basic packet access and recently the Fax NT service in GSM for Rel 99.

DISCUSSION:

RESULT: The document was AGREED

8.3 Service Modification without pre-notification [BMWPN-SMWOP]

~~CN3~~ CN3 consider their work to this Work Item as 0% Complete. It is unlikely that there will be contributions on this work item for Rel-4 - CN3 will propose to CN#11 to delete BMWPN-SMWOP for Rel-4

Note Siemens, Alcatel and Ericsson support the deletion of the WI SMWOP due to lack of contributions.

No contributions to this agenda item.

8.4 Global Text telephony [GTT-IW]

STATUS of GTT-IW - CN3 consider their work to this Work Item as 100% Complete (for CN3) - Existing solution has no requirements for CN3

- N3-010127:** Discussion document on the present status of GTT. Presented by Rune of Ericsson.
- CONTENT:** Contains an overview of the present status of the work on GTT, and also contains the latest versions of the relevant S2, S4 documents.
- DISCUSSION:** It is assumed that all of the work on GTT will be done within SA4, and therefore CN3 will have no work to do on this WID for Rel-4. It is possible that CN3 will have work in the future - this depends on the solutions decided by SA2. However if there is a requirement for work on CN3 - it will not be realisable for Rel-4 (due to short timescales)
- RESULT:** The document was **NOTED**.

8.5 Bearer Independent Circuit-switched Core Network [CSSPLIT-CC] for Rel-4.

CN3 consider their work to this Work Item as 90% Complete

All of the documents for this agenda item were discussed in the joint CN3 CN4 meeting see section 11. CN3 has prepared and reviewed the final output to CN#11:

- N3-010169:** CR to 29.007 v410 " Introduction of Nb UP ".. Presented Erik of Ericsson
- CONTENT:** Contains (CAT B) CR that introduces changes related to BICSCN for Rel-4. **DISCUSSION:** **THIS CR REPLACES NJ-010078, which was AGREED at the joint_CN3_CN4#1. According to the present CR, PDU type 0 shall be used for circuit emulation in the CN beyond the IWF. Otherwise, the two CRs are identical.**
- RESULT:** The document was **AGREED**.
- N3-010170:** CR to 23.910 v410 " Introduction of Nb UP "..Presented by Erik of Ericsson
- CONTENT:** Contains (CAT B) CR that introduces changes related to BICSCN for Rel-4.
- DISCUSSION:** **THIS CR REPLACES NJ-010079, which was AGREED at the joint_CN3_CN4#1. According to the present CR, PDU type 0 shall be used for circuit emulation in the CN beyond the IWF. Otherwise, the two CRs are identical.**
- RESULT:** The document was **AGREED**.
- N3-010171:** TS 29.414 v2.0.0..David of Vodafone
- RESULT:** The document was **AGREED**.
- N3-010172:** TS 29.415 v2.0.0..Thomas of Siemens
- DISCUSSION:** Some concerns were expressed over interworking of IPv4 and IPv6. Norbert will hi-light this to CN#11 Plenary meeting.
- Minor editorial changes were required to the TS and completion of the cover sheet.
- RESULT:** The document was **REVISED to 0173.**
- ? REVISED?**
- N3-010173:** Rev. TS 29.415 v2.0.0..Thomas of Siemens
- DISCUSSION:** To be agreed by e-mail - deadline 17:00 Monday 4th March. The rapporteur will provide the clean version.
- RESULT:** The document was **Approved by E-mail the following week.**

8.6 Other Work Items for Rel-4.

N3-010103: CR to 43.010 v4.0.0 "Removal of speech model". Presented by Achim of Alcatel.

CONTENT: Contains (CAT C) CR that removes speech model in GSM for Rel-4.

DISCUSSION: Change to CAT to D and modifications to cover page.

RESULT: The document was REVISED to 0154.

? REVISED?

N3-010154: Rev. CR to 43.010 v4.0.0 "Removal of speech model". Presented by Achim of Alcatel.

CONTENT: Contains (CAT C) CR that removes speech model in GSM for Rel-4.

RESULT: The document was AGREED.

N3-010111: CR to 27.001 v4.2.0 " Editorial modifications of flow diagrams ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT C) CR that improves the readability of the flow diagrams by re-ordering the octets as well as ease future editing of the flow diagrams Rel-4.

DISCUSSION: This CR has conflicts with relates to another CR in 0141. After discussions between Juha and Ericsson it was decided to revise both 0111 and 0141 to provide clarity in the diagrams.

RESULT: The document was REVISED to 0156.

? REVISED?

N3-010156: Rev. CR to 27.001 v4.2.0 " Editorial modifications of flow diagrams ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT C) CR that improves the readability of the flow diagrams by re-ordering the octets as well as ease future editing of the flow diagrams Rel-4.

RESULT: The document was AGREED.

N3-010141: CR to 27.001 v4.2.0 " ACC values for the V.34 modem based 3G-H.324/M service". Presented by Rune of Ericsson.

CONTENT: Contains (CAT C) CR to Rel-4.

DISCUSSION: This CR has conflicts with relates to another CR in 0141. After discussions between Juha and Ericsson it was decided to revise both 0111 and 0141 to provide clarity in the diagrams.

RESULT: The document was REVISED to 0155.

? REVISED?

N3-010155: Rev. CR to 27.001 v4.2.0 " ACC values for the V.34 modem based 3G-H.324/M service". Presented by Rune of Ericsson.

CONTENT: Contains (CAT C) CR to Rel-4.

DISCUSSION: This CR has conflicts with relates to another CR in 0141. After discussions between Juha and Ericsson it was decided to revise both 0111 and 0141 to provide clarity in the diagrams.

RESULT: The document was AGREED.

N3-010153: **Discussion document on Single Numbering Scheme.** Presented by Juha of Nokia.

CONTENT: A few meetings ago a CR to TS 27.001 was agreed that allows the MS to use GBS parameters in the BC-IE in the CALL CONF message, when there is no BC-IE in the SETUP message sent by the network (a single numbering case).

Patching is required to remove contradictions caused by the change.

Further, discussion and decision is required concerning the use of other than GBS parameters (e.g. ITC) in an MT call with no BC-IE in the SETUP message.

This discussion document proposes the required changes for discussion within CN3.

DISCUSSION: Erik questioned the modifications for UDI. For all ISDN calls the BC-IE is indicated. For PSTN originated call with single numbering the BC-IE is not indicated.

The reference to Table 4 was renumbered B.4

We can agree to the 1st change but not the 2nd change contained within the document.

Question as to whether this is for Rel 99 and or Rel-4. Juha responded the changes are for Rel-99 (and corresponding Rel-4).

Also this discussion document covers 2 changes. These will need to be presented in 2 individual CRs or in a single CR with clear reasons for change in the cover sheet.

It was not agreed to change the notes to the tables, as they were mainly editorial.

RESULT: The document was **DISCUSSED**.

N3-010159: **CR to 27.001 v3.7.0 " Corrections for a mobile terminated call using the single numbering scheme "**. Presented by Juha of Nokia.

CONTENT: Contains **(CAT F)** CR to **Rel-99**.

RESULT: The document was **AGREED**.

? **CORRESPONDING CR TO LATER RELEASE ?**

N3-010160: **CR to 27.001 v4.2.0 " Corrections for a mobile terminated call using the single numbering scheme "**. Presented by Juha of Nokia.

CONTENT: Contains the corresponding **(CAT A)** CR to **Rel-4**.

RESULT: The document was **AGREED**.

9 Release 5:

9.1 Interworking between IM Subsystems with IP [IMS-CCR-IWIP]

[CN3 consider their work to this Work Item as 20% Complete](#)

N3-010128: Updated WID - Revised work item description for Interworking between IM CN subsystem and IP networks. Presented by Nigel of BT.

CONTENT: Contains minor editorial changes to the WID previously presented in Beijing.

DISCUSSION: WID was revised to reflect the new TS number and to add the TS 24.228 to the list of affected specifications.

RESULT: The document was **REVISED to 0161.**

? **REVISED?**

N3-010161: Rev WID - Revised work item description for Interworking between IM CN subsystem and IP networks. Presented by Nigel of BT.

RESULT: The document was **AGREED.**

N3-010129: Proposed Specification Outline - 29.xyz "Interworking between IM CN subsystem and IP networks". Presented by Nigel of BT.

CONTENT: New specification to outline the procedures, signalling exchanges and protocol interworking required to support "Interworking between IM CN subsystem and IP networks" for Release 5 IM services.

DISCUSSION: Relation to TS 24.228 which also discovers models for interworking. The two specifications need to be developed together, and the overlaps studied closely. This will involve working with CN1. TS 29.xyz should be based on the scenarios developed by CN1 in 24.228, and will add in additional information regarding interworking.

It was agreed that TS 29.xyz should cover the user plane, and the transport plane of the Gi interface. 24.228 will cover the interworking on the control plane and on the application level.

It was decided to develop an independent TS 29.xyz as opposed to adding a simple annex to TS 24.228 for this work.

It is not intended to develop QoS within this TS, rather to have a separate TS for QoS. This can only be continued following the work of SA2.

IPv4 IPv6 interworking will also need to be considered and, a reference added to the relevant stage 2.

Comments to figure in section 6.1. MM is for SIP to SIP interworking (including IM_SIP to IP_SIP and IM_SIP to IM_SIP). This figure needs to be clarified (to show the various interworking scenarios).

The TS number TS 29.162 was requested [and obtained] in order to provide a soft link to TS 29.061 (interworking between GPRS and fixed IP).

RESULT: The document was **AGREED to be developed within CN3.**

9.2 Interworking between IM Subsystems and CS [IMS-CCR-IWCS]

[CN3 consider their work to this Work Item as 20% Complete](#)

N3-010130: Updated WID - Revised work item description for Interworking between IM CN subsystem and CS networks. Presented by Nigel of BT.

CONTENT: Contains minor editorial changes to the WID previously presented in Beijing.

DISCUSSION: Change to the term IP telephony, and remove the reference to ISUP in sections 3 and 4.

Change section 9 Impacts from **No** to **Don't know**

Also the new TS number was added.

Lucent to be added as supporting company

RESULT: The document was **REVISED to 0162.**

? **REVISED?**

N3-010162: **Rev. WID - Revised work item description for Interworking between IM CN subsystem and CS networks.** Presented by Nigel of BT.

RESULT: The document was **AGREED.**

N3-010131: **Proposed Specification Outline - 29.abc "Interworking between IM CN subsystem and CS networks".** Presented by Nigel of BT.

CONTENT: New specification to outline the procedures, signalling exchanges and protocol interworking required to support "Interworking between IM CN subsystem and CS networks" for Release 5 IM services

DISCUSSION: We remove the restriction to ISUP to align this spec to the WID. we may have details for ISUP but not completed for other signalling.

Mc interface (section 6.1) we could reference the stage 3 document [TS 29.232]

C7 in figure 1 should read SS7.

Do we require 2 specifications - one for CS one for PS?

Historically CN3 has had separate specifications.

Johanna suggested that the CS specification should stabilize before the PS part. Hence it would be preferable to have 2 specifications that allow independent evolution.

Suggested number TS 29.163 (IWF from IMS to another type of network) was obtained from the MCC.

RESULT: The document was **AGREED to be developed within CN3.**

9.3 QoS for IMS

[CN3 consider their work to this Work Item as 0% Complete](#)

NOTE: CN3 will have a presentation of the SA2 work on QoS in the CN3#17 meeting in May 2001. It is not yet known if the scope of CN3 work will only be limited to interworking related stage 3 work

N3-010123: **Overview of QoS for 3GPP.**

CONTENT: Contains a slideshow presentation from the SA2 QoS group on the status of QoS for 3GPP. Contains references to the important QoS specifications as well as a QoS architecture overview.

DISCUSSION: This is not an official output paper from SA2, but CN3 delegates are invited to read this offline before the SA2 presentation in May in order to be able to ask relevant questions.

Daisuke mentioned that SA2 have agreed to use DIFFSERV. However this information is not yet officially communicated within CN.

RESULT: The document was **NOTED.**

9.4 IWF at the CN Border [TRFO-STLC]

[✂✂CN3 consider their work to this Work Item as 0% Complete](#)

NOTE: CN3 will propose to delete this WI due to lack of interest.

9.5 Other Rel-5 Work Items

No input to this agenda item

10 Joint CN1_CN2_CN3_CN4#02 Meeting

Following the CN1_CN2_CN3_CN4 meeting, CN3 had a brainstorming about the method of working for future meetings.

The main issues were: -

- ?? It was too early for CN3 to deal with IMS issues
- ?? Lack of clear agenda before the meeting
- ?? Intention of meeting unclear, delegates did not know in advance what was to be discussed
- ?? Lack of input documents did not allow for adequate preparation
- ?? Still require joint meetings, however only the CN WGs directly implicated need to be invited
- ?? It would be useful to have CN draft specs on the CN server .

11 Joint CN3_CN4#02 Meeting

12 Output of CN3#16 Meeting

12.1 Work Items

TDoc #	Tdoc Title	Status
N3-010162	Updated WID - Revised work item description for Interworking between IM CN subsystem and CS networks.	AGREED
N3-010161	Updated WID - Revised work item description for Interworking between IM CN subsystem and IP networks	AGREED

12.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN3:

TDoc #	Tdoc Title	LS to	LS cc	Attachment	Sent

12.3 Change Requests

The following CRs were agreed by CN3, and are to be sent to the TSG-CN#11 Plenary for Approval:

TDoc #	Spec	CR #	Rev	Tdoc Title	CAT	Rel	C_Ver	WI
N3-010167	23.910	027		A-TRAU' synchronization	A	REL-4	4.1.0	CORRECT
N3-010166	23.910	024		A-TRAU' synchronization	F	R99	3.3.0	TEI
N3-010165	29.007	037		A-TRAU' synchronization	A	REL-4	4.1.0	CORRECT
N3-010164	29.007	036		A-TRAU' synchronization	F	R99	3.7.0	TEI
N3-010155	27.001	058		Clarification of allowed combinations of FNUR and ACC values for the V.34 modem based 3G-H.324/M service	D	REL-4	4.2.0	CS Data Bearers
N3-010151	27.001	055		Correction of service's scope	A	REL-4	4.2.0	CORRECT
N3-010137	23.910	022		Correction of service's scope	F	R99	3.3.0	CS Data Bearers
N3-010150	27.001	054		Correction of service's scope	F	R99	3.7.0	CS Data Bearers
N3-010149	23.910	025		Correction of service's scope	A	REL-4	4.1.0	CORRECT
N3-010096	08.20	A010		Correction to downgrading procedure for HSCSD	F	R96	5.3.0	HSCSD
N3-010099	08.20	A013		Correction to downgrading procedure for HSCSD	A	R99	8.3.0	HSCSD
N3-010098	08.20	A012		Correction to downgrading procedure for HSCSD	A	R98	7.0.1	HSCSD
N3-010097	08.20	A011		Correction to downgrading procedure for HSCSD	A	R97	6.0.0	HSCSD
N3-010160	27.001	057		Corrections for a mobile terminated call using the single numbering scheme	A	REL-4	4.2.0	CORRECT
N3-010159	27.001	056		Corrections for a mobile terminated call using the single numbering scheme	F	R99	3.7.0	TEI
N3-010156	27.001	053		Editorial modifications of flow diagrams	D	REL-4	4.2.0	TEI_4
N3-010170	23.910	026		Introduction of Nb UP	B	REL-4	4.1.0	CSSPLIT

TDoc #	Spec	CR #	Rev	Tdoc Title	CAT	Rel	C_Ver	WI
N3-010169	29.007	039		Introduction of Nb UP	B	REL-4	4.1.0	CSSPLIT
N3-010107	23.910	028		RAB-assignment request (RAB parameter)	A	REL-4	4.1.0	CORRECT
N3-010104	27.001	049		RAB-assignment request (RAB parameter)	F	R99	3.7.0	CS Data Bearers
N3-010105	23.910	023		RAB-assignment request (RAB parameter)	F	R99	3.3.0	CS Data Bearers
N3-010106	27.001	050		RAB-assignment request (RAB parameter)	A	REL-4	4.2.0	CORRECT
N3-010158	27.001	047	1	Removal of blocking of higher modem speeds	A	REL-4	4.2.0	CORRECT
N3-010168	27.001	046	1	Removal of blocking of higher modem speeds	F	R99	3.7.0	CS Data Bearers
N3-010152	29.007	038		Removal of Fax NT in GSM from Rel-4	C	REL-4	4.1.0	RT Facsimile
N3-010157	27.001	048	1	Removal of Fax NT in GSM from Rel-4	C	REL-4	4.2.0	RT Facsimile
N3-010147	27.001	051		Removal of flow diagram B.1.3.1.7	F	R99	3.7.0	CS Data Bearers
N3-010148	27.001	052		Removal of flow diagram B.1.3.1.7	A	REL-4	4.2.0	CORRECT
N3-010112	07.60	A021		Removal of IHOSS and OSP	F	R98	7.1.0	GPRS
N3-010113	09.61	A016		Removal of IHOSS and OSP	F	R98	7.2.0	GPRS
N3-010114	27.060	015		Removal of IHOSS and OSP	A	R99	3.4.0	GPRS
N3-010115	29.061	016		Removal of IHOSS and OSP	A	R99	3.4.0	GPRS
N3-010154	43.010	004		Removal of speech model	D	REL-4	4.0.0	TEI_4

12.4 New TRs / TSs

	Number	Owner	Rel	Title	Rapporteur	Company
N3-010129	29.163	CN3	Rel-5	Proposed Specification Outline - 29.xyz "Interworking between IM CN subsystem and IP networks"	Nigel Holland	BT
N3-010131	29.162	CN3	Rel-5	Proposed Specification Outline - 29.abc "Interworking between IM CN subsystem and CS networks"	Nigel Holland	BT
N3-010171	29.415	CN3	Rel-4	Core Network Nb Interface User Plane Protocols	David Sanders	Vodafone
N3-010173	29.414	CN3	Rel-4	Core Network Nb Data Transport and Transport Signalling	Thomas Belling	Siemens

12.5 Other

TDoc #	Tdoc Title	Notes
N3-010163	CN3 Updated ToR	To be provided to CN#11 Plenary for approval

12.6 Summary of CN3#16 Action Points

Includes all open action from previous meetings

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	STATUS
N3_14_04	Masahiko	Ensure a contribution on future of SMWOP is made to the SA1 meeting, report back to CN3	before CN3#15	CN3 status contribution has not been presented to SA1, but Masahiko has presented the issues verbally.
N3_15_07	Masahiko	Create a new WID for Service Modification WITH Pre-notification and present it to CN3#16 - this will be based on N3-010049	before CN3#16	OPEN
N3_16_01	DAB	feed back the changes to the 3GPP project plan to Alain Sultan	before CN#11	
N3_16_02	DAB	feed back the changes to the specification list to JMM	before CN#11	
N3_16_03	DAB	Update CN3 election results to 3GPP web server	before CN#11	
N3_16_04	All	Check the removal of interworking between IMS and CS networks for CS multimedia services on 24.228 as result of LS in N3-010116	before CN3#17	

13 Any other business

There was no other business raised at this point.

14 Close of meeting

Norbert closed the 16th CN3 meeting on Thursday 1st March at 17:00, and thanked the host for the excellent meeting location and arrangements.

He also thanked the CN3 delegates and David the CN3 MCC support for their active participation in the meeting.

Norbert gave special thanks to Achim and Erik who are leaving CN3 due to changes in their jobs and wished them both all the best with their future endeavours.

Annex A: <Packet Switched Sub-Working Group Report>

There were no separate CS/PS SWG meetings, and therefore there is no PS SWG Report for CN3#16.

Annex B: List of CN3 Meeting Participants

The following delegates attended the CN3#16 meeting.

NAME	COMPANY	STATUS	Tel	E-Mail
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Annex C: List of documents

Details can also be found in the file *N3_16_Tdoc_list.xls* on the meeting server.

TDoc #	Ag.	Type	Tdoc Title	Spec	Rel	C_Ver	Status	Source
N3-010091	2	AGENDA	AGENDA FOR CN3#16 MEETING				APPROVED	Chair
N3-010092	3	Tdoc ALLOC	Allocation of Tdocs to Agenda Items				APPROVED	Chair
N3-010093	4.1	REPORT	Draft Meeting Report from CN3#15 (Beijing)				REVISED TO 0142	MCC
N3-010094	6.1	WORK PLAN	Latest Version of 3GPP Work Plan				REVIEWED	MCC
N3-010095	8.2	CR	Removal of Fax NT in GSM from Rel-4	29.007	REL-4	4.1.0	REVISED TO 0152	Siemens
N3-010096	7.4	CR	Correction to downgrading procedure for HSCSD	08.20	R96	5.3.0	AGREED	Siemens
N3-010097	7.4	CR	Correction to downgrading procedure for HSCSD	08.20	R97	6.0.0	AGREED	Siemens
N3-010098	7.4	CR	Correction to downgrading procedure for HSCSD	08.20	R98	7.0.1	AGREED	Siemens
N3-010099	7.4	CR	Correction to downgrading procedure for HSCSD	08.20	R99	8.3.0	AGREED	Siemens
N3-010100	7.1.	CR	A-TRAU' synchronization	29.007	R99	3.	REVISED TO 0164	Alcatel
N3-010101	7.1.	CR	A-TRAU' synchronization	23.910	R99	3.3.0	REVISED TO 0166	Alcatel
N3-010102	7.1.	DISCUSSION DOC	A-TRAU' synchronization				APPROVED	Alcatel
N3-010103	8.6	CR	Removal of speech model	43.010	REL-4	4.0.0	REVISED TO 0154	Alcatel
N3-010104	7.1	CR	RAB-assignment request (RAB parameter)	27.001	R99	3.7.0	AGREED	Ericsson
N3-010105	7.1	CR	RAB-assignment request (RAB parameter)	23.910	R99	3.3.0	AGREED	Ericsson
N3-010106	7.1	CR	RAB-assignment request (RAB parameter)	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010107	7.1	CR	RAB-assignment request (RAB parameter)	23.910	REL-4	4.1.0	AGREED	Ericsson
N3-010108	7.1	CR	Removal of blocking of higher modem speeds	27.001	R99	3.7.0	REVISED TO 0145	Ericsson
N3-010109	7.4	CR	Removal of blocking of higher modem speeds	27.001	REL-4	4.2.0	REVISED TO 0146	Ericsson
N3-010110	8.2	CR	Deletion of NT Fax in GSM from Release 4.	27.001	REL-4	4.2.0	REVISED TO 0157	Ericsson
N3-010111	8.6	CR	Editorial modifications of flow diagrams	27.001	REL-4	4.2.0	REVISED TO 0155	Ericsson
N3-010112	7.3	CR	Removal of IHOSS and OSP	07.60	R98	7.1.0	AGREED	Ericsson
N3-010113	7.3	CR	Removal of IHOSS and OSP	09.61	R98	7.2.0	AGREED	Ericsson
N3-010114	7.3	CR	Removal of IHOSS and OSP	27.060	R99	3.4.0	AGREED	Ericsson

TDoc #	Ag.	Type	Tdoc Title	Spec	Rel	C_Ver	Status	Source
N3-010115	7.3	CR	Removal of IHOSS and OSP	29.061	R99	3.4.0	AGREED	Ericsson
N3-010116	5	LS IN	Re. LS on "clarification on interworking between IM domain and CS networks"				NOTED	SA1
N3-010117	5	LS IN	Re. LS to NJ-010107 (LS "Control of IP multimedia services")				NOTED	SA1
N3-010118	5	LS IN	Re. LS on clarification on QoS work distribution				NOTED	SA2
N3-010119	5	LS IN	Re. LS on issues related to optimized IP speech support in GERAN				NOTED	SA2
N3-010120	5	LS IN	Removal of Visited Control S-CSCF option from the Rel 5 architecture				NOTED	SA2
N3-010121	5	LS IN	LS "Control of IP multimedia services"				NOTED	SA2
N3-010122	5	LS IN	LS on Replacement of 23.121 for R4 onwards				NOTED	SA2
N3-010123	9.3	DISCUSSION DOC	QoS for 3GPP Overview				NOTED	SA2 QoS
N3-010124			SPARE				NOT USED	
N3-010125	7.1	CR	Removal of flow diagram B.1.3.1.7	27.001	R99	3.7.0	REVISED TO 0147	Ericsson
N3-010126	7.1	CR	Removal of flow diagram B.1.3.1.7	27.001	REL-4	4.2.0	REVISED TO 0148	Ericsson
N3-010127	8.4	Tdoc	3GPP TS 26.226 GTT General description		REL-4	4.0.0	NOTED	Ericsson
N3-010128	9.1	WID	Updated WID - Revised work item description for Interworking between IM CN subsystem and IP networks				REVISED TO 0161	BT
N3-010129	9.1	TS	Proposed Specification Outline - 29.xyz "Interworking between IM CN subsystem and IP networks"	29.xyz	REL-5	0.0.0	AGREED	BT
N3-010130	9.2	DISCUSSION DOC	Updated WID - Revised work item description for Interworking between IM CN subsystem and CS networks.				REVISED TO 0162	BT
N3-010131	9.2	TS	Proposed Specification Outline - 29.abc "Interworking between IM CN subsystem and CS networks"	29.abc	REL-5	0.0.0	AGREED	BT
N3-010132	6.4	DISCUSSION DOC	Candidature for the position of CN3 Chair from Norbert Klehn				APPROVED	Siemens
N3-010133	7.1	[CR]	Clarification on Circuit Switched Bearer Services in UMTS	22.002	R99	3.5.0	NOTED	SA1
N3-010134	7.1	[CR]	Clarification on Circuit Switched Bearer Services in UMTS	22.002	REL-4	4.0.0	NOTED	SA1
N3-010135	7.1	[CR]	Removal of outdated and unneeded notes, alignment of table's layout	22.002	REL-4	4.0.0	NOTED	SA1
N3-010136	7.1	[CR]	Restructuring of tables in section 3.1	22.002	REL-4	4.0.0	NOTED	SA1
N3-010137	7.1	CR	Correction of service's scope	23.910	R99	3.3.0	AGREED	Siemens
N3-010138	7.1	CR	Correction of service's scope	23.910	REL-4	4.1.0	REVISED TO 0149	Siemens
N3-010139	7.1	CR	Correction of service's scope	27.001	R99	3.7.0	REVISED TO 0150	Siemens
N3-010140	7.1	CR	Correction of service's scope	27.001	REL-4	4.2.0	WITHDRAWN	Siemens

TDoc #	Ag.	Type	Tdoc Title	Spec	Rel	C_Ver	Status	Source
N3-010141	7.1	CR	Clarification of allowed combinations of FNUR and ACC values for the V.34 modem based 3G-H.324/M service.	27.001	REL-4	4.2.0	REVISED TO 0156	Ericsson
N3-010142	4.1	REPORT	Draft Meeting Report from CN3#15 (Beijing)				APPROVED	MCC
N3-010143	6.2	REPORT	Status list of all CN3 TRs and TSs				UPDATED	
N3-010144	6.2	ToR	CN3 ToR				REVISED TO 0163	
N3-010145	7.1	CR	Removal of blocking of higher modem speeds	27.001	R99	3.7.0	REVISED TO 0168	Ericsson
N3-010146	7.4	CR	Removal of blocking of higher modem speeds	27.001	REL-4	4.2.0	WITHDRAWN	Ericsson
N3-010147	7.1	CR	Removal of flow diagram B.1.3.1.7	27.001	R99	3.7.0	AGREED	Ericsson
N3-010148	7.1	CR	Removal of flow diagram B.1.3.1.7	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010149	7.1	CR	Correction of service's scope	23.910	REL-4	4.1.0	AGREED	Siemens
N3-010150	7.1	CR	Correction of service's scope	27.001	R99	3.7.0	AGREED	Siemens
N3-010151	7.1	CR	Correction of service's scope	27.001	REL-4	4.2.0	AGREED	Siemens
N3-010152	8.2	CR	Removal of Fax NT in GSM from Rel-4	29.007	REL-4	4.1.0	AGREED	Siemens
N3-010153		DISCUSSION DOC	discussion on single numbering scheme				NOTED	Nokia
N3-010154	8.6	CR	Removal of speech model	43.010	REL-4	4.0.0	AGREED	Alcatel
N3-010155	8.6	CR	Clarification of allowed combinations of FNUR and ACC values for the V.34 modem based 3G-H.324/M service.	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010156	7.1	CR	Editorial modifications of flow diagrams	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010157	8.2	CR	Deletion of NT Fax in GSM from Release 4.	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010158	7.4	CR	Removal of blocking of higher modem speeds	27.001	REL-4	4.2.0	AGREED	Ericsson
N3-010159	8.6	CR	Corrections for a mobile terminated call using the single numbering scheme	27.001	R99	3.7.0	AGREED	Nokia
N3-010160	8.6	CR	Corrections for a mobile terminated call using the single numbering scheme	27.001	REL-4	4.2.0	AGREED	Nokia
N3-010161	9.1	WID	Updated WID - Revised work item description for Interworking between IM CN subsystem and IP networks				AGREED	BT
N3-010162	9.2	WID	Updated WID - Revised work item description for Interworking between IM CN subsystem and CS networks.				AGREED	BT
N3-010163	6.2	ToR	CN3 ToR				AGREED	CN3
N3-010164	7.1.	CR	A-TRAU' synchronization	29.007	R99	3.7.0	AGREED	Alcatel
N3-010165	7.1.	CR	A-TRAU' synchronization	29.007	REL-4	4.1.0	AGREED	Alcatel
N3-010166	7.1.	CR	A-TRAU' synchronization	23.910	R99	3.3.0	AGREED	Alcatel
N3-010167	7.1.	CR	A-TRAU' synchronization	23.910	REL-4	4.1.0	AGREED	Alcatel

TDoc #	Ag.	Type	Tdoc Title	Spec	Rel	C_Ver	Status	Source
N3-010168	7.1	CR	Removal of blocking of higher modem speeds	27.001	R99	3.7.0	AGREED	Ericsson
N3-010169		CR	Introduction of Nb UP	29.007	REL-4	4.1.0	AGREED	Ericsson
N3-010170		CR	Introduction of Nb UP	23.910	REL-4	4.1.0	AGREED	Ericsson
N3-010171		TS	TS 29.415 Core Network Nb Interface User Plane Protocols	29.415	REL-4	2.0.0	AGREED	Vodafone
N3-010172		TS	TS 29.414 Core Network Nb Data Transport and Transport Signalling	29.415	REL-4	2.0.0	REV to 0173	Siemens
N3-010173		TS	TS 29.414 Core Network Nb Data Transport and Transport Signalling	29.415	REL-4	2.0.0	e-mail approval	Siemens

Annex D: 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 send 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 way 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	
1 st March 2001	Draft v1.0.0 distributed to CN3 chairman for comments
5 th March 2001	<p>DRAFT v1.1.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to:</p> <p style="padding-left: 40px;">David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secretariat Tel :+33 (0)4 92 94 42 78 e-mail: <i> david.boswarthick@ETSI.fr</i></p> <p>A deadline of 4 days was given to the CN3 delegates for e-mail comments on the draft report. The reduced delay was due to the plenary being held the following week.</p> <p style="text-align: center;">Comments back by 8th March 2001</p>
9 th April 2001	Updated DRAFT v2.0.0 placed to the server
14 th April 2001	N3-000177[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#14 meeting. Updated to N3-000xyz and placed to the server as v3.0.0.