



Third Generation Partnership Project

OFFICIAL MEETING REPORT v3.0.0

3GPP TSG-CN3
Meeting # 13

Stuttgart, Germany
16th – 20th October 2000



Hosted by Alcatel

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1 Opening of the Meeting

The 13th CN3 meeting took place from 16th – 20th October at the Artemis Hotel, Stuttgart, Germany.

Achim Braun of Alcatel welcomed the CN3 delegates to Stuttgart on behalf of the host, and explained the logistical details for the week.

Alcatel also kindly organised a highly enjoyable social event at a local restaurant on the Wednesday evening.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 10:00 on Monday 16th October. He set the objectives for the meetings as follows:

- **Start work on Release 2000**

2 Approval of the Agenda

N3-000493: **N3#13 Draft Meeting Agenda.** Presented by the CN3 Chairman.

Content: Contains the draft Agenda for CN3#13 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.

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_13\(Stuttgart\)/tdocs/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_13(Stuttgart)/tdocs/)

N3-000522: **Allocation of documents to Agenda items.** Presented by the CN3 Chairman.

DISCUSSION: Norbert created another document with the allocation of documents to agenda items. This also showed the source and title of the documents. Document N3-000500 was moved from agenda item 7.3 to 8.6.

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

4 Reports

4.1 CN3#12 Meeting Report, (Seattle)

The meeting report can be found at:

[ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_12\(Seattle\)/Report/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_12(Seattle)/Report/)

N3-000503: **CN3#12 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report for the CN3#12 meeting held in Seattle, August 2000.

DISCUSSION: The CN3#12 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.

Review of action items from CN3#12:

| | |
|---|--|
| ✓ | [ACTION N3_12_01] - Yahagi-San will contact the contact person to clarify the problem → DONE |
| ✓ | [ACTION N3_12_02] - DAB to check the columns and give information the author where we have agreed WID → DONE |
| ✓ | [ACTION N3_12_03] - comments will be communicated by Norbert via David to the authors → DONE |
| ✓ | [ACTION N3_12_04] - Norbert will communicate the changes to project plan to the CN Chair → DONE |
| ✓ | [ACTION N3_12_05] - David to check and change the cover pages for CRs to GSM specs → DONE |
| △ | [ACTION N3_12_06] - Nokia will provide a draft CR on 32kbit/s UDI/RDI multimedia to N1 and present the LS at the next CN1 meeting → OPEN (N1 meeting to be held 6 th November.) |
| ✓ | [ACTION N3_12_07] – Norbert, Achim, Erik will prepare a draft version of the WID for 'IWF at the EDGE' → DONE |

RESULT: The document was **APPROVED**.

N3-000502 **CN3 Status Report as presented to the CN Plenary #9.** Presented by Norbert, CN3 Chairman.

CONTENT: Contains the CN3 Chairman's status report as presented to the 9th CN Plenary. Had also been previously sent out on the CN3 mail list for comments.

RESULT: The document was **NOTED**.

4.2 Reports from TSG-CN#9 (Hawaii)

N3-000504: **Brief Notice from CN#9.** Presented by Norbert, CN3 Chairman.

CONTENT: Contains the e-mail notice sent by Norbert to the CN3 exploder following the CN Plenary. Hi-lights from the TSG_N#9 are given below.

1. *The status report given in NP-000460 was accepted. The reports provided in NP-000461 and 462 were noted.*
2. *All of the CN3's change requests were approved. Note that the CRs against 27.001 for R00 were re-issued because they were provided against version 3.x.y instead of 4.0.0 that already exists.*
3. *The Work Item Description Sheets on "Interworking between IM CN Subsystem and CS Networks" (NP-000465) was approved.*
The Work Item Description Sheets on "Interworking between IM CN Subsystem and IP Networks" (NP-000466) was not approved. The work split between the several groups and also the scope of CN3's work has to be clarified. Mainly, concerns raised up by Nokia. They will bring detailed comments to next CN3 meeting. However, Lucent indicated that they are also supporting this Work Item.
The Work Item Description Sheets on "IWF at the CN Boarder" (NP-000467) was referred back to CN3 to provide the necessary support by companies.
4. *The Terms of Reference of CN3 were approved (NP-000473). The proposed work split between CN3 and CN4 concerning the CS domain was endorsed by TSG-CN. A work split by protocol for the IM CN Subsystem was tentatively agreed. According to NP-000553, CN3 is responsible for QoS protocols (such as RSVP) and RTP. The responsibility for SDP was moved to CN1 to bring it together with SIP.*

5. *Hiroshi Nakamura (NTT DoCoMo) was elected as TSG-CN Vice Chairman. Yun-Chao Hu (Ericsson) was appointed as convenor of the ITU-T Co-ord. Ad-Hoc.*
6. *The latest version of the Work Plan was presented by MCC and commented by the WGs. The WGs are requested to check the correct incorporation of these comments. David will provide the latest version to next CN3 meeting.*

It was clarified that the correct abbreviation for TSG-CN WGx is CNx and not Nx.

CN3 was requested not to group all of the R99 Work Items under TEI, but to use the former ones (like multimedia or GPRS) although they were already finished. I will take care of this request when presenting the next agenda.

CN has discussed to handling of frozen specifications and of allowed CRs against those specifications. CN's proposal was accepted by SA. David will inform CN3 on changes to the working methods at next CN3 meeting.

7. *The meeting dates of the TSG CN WGs CN1 - CN4 have to be aligned with CN4 meeting dates.*

RESULT: The document was **NOTED**.

N3-000505: **CN#9 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the TSG-CN#9 meeting held in Hawaii, September 2000.

DISCUSSION: The draft report has been distributed to TSG_CN for approval, and this document is for information only to CN3.

RESULT: The document was **NOTED**.

4.3 Reports from Other Groups

N3-000532: **Verbal Report from ITU WTSA.** Presented by John Visser, Nortel.

DISCUSSION: John provided a verbal report to CN3. on the activities of the newly formed Special Study Group.

The ITU-T met last week and topics discussed included the progress of work on IMT 2000. It was decided to create a new Special Study Group to work on IMT 2000 and related issues.

John Visser has been named as chairman of this Study group. The first meeting of this SG is Dec 11-15th 2000.

Rune, questioned the accessibility of these ITU-T documents to non-member companies and individuals. **John**, There is restricted access to ITU-T documents – as access to the documents area requires a members profile/password. In order to have this – you must belong to an ITU member company. However all of the delegates in the room belong to ITU member companies.

ITU-T is currently investigating the possibility of FREE ACCES to their documents.

RESULT: The document was **NOTED**.

4.4 IPR Disclosures

N3-000514: **Guidelines for IPR Disclosures.** Presented by David Boswarthick, MCC.

CONTENT: A **formal call** for IPR must be made by the Chairman at **the beginning** of each meeting.

DISCUSSION: David presented this document and reminded delegates that they should indicate any essential IPRs resulting from discussions in this working group.

No IPRs were declared at this point.

RESULT: The document was **NOTED**.

5 Liaisons from other groups

Status Check on LSs sent from Previous CN3 Meetings

| T-DOC | Subject | To | Cc | Attachment | Sent | Status |
|-----------|---|------------------|----|--|----------|--|
| N3-000373 | 32 kbit/s UDI/RDI multimedia | S1 SMG2/GERAN | | | 17/07/00 | Seen by R3#15 meeting Seen by GP#1 meeting |
| N3-000390 | Specifying IuUP PDU Type in 3G TS 26.102 | R3 | S4 | | 17/07c | Seen by R3#15 meeting Seen by S4#12 meeting |
| 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 | Not yet seen by S4 or R3 |
| N3-000487 | Multimedia 32 kbit/s UDI/RDI in GSM/EDGE | N1 | | N3-000452, N3-000453, N3-000474, N3-000455 N3-000456, GP-000384. | 07/09/00 | Not yet seen by N1, (next meeting 20 th Nov) |
| N3-000488 | DHCP lease renewal | T2 | | N3-000401, N3-000411, N3-000457 | 07/09/00 | Yet seen by T2 |

N3-000501: LS from TSG_GERAN in response to CN3s previous LS on 32 kbit/s UDI/RDI multimedia.

CONTENT: This LS has already been seen in the CN3#12 meeting. TSG GERAN has reviewed the LS on 32 kbit/s UDI/RDI multimedia and recognized the advantages of providing 32 kbit/s UDI/RDI channels in a single slot configuration using E-TCH/F32.

TSG GERAN concluded that the impact on TSG GERAN specifications is **minor** and agreed to draft the corresponding CRs as correction to R99. The affected specification are 08.08 and 08.58 and corresponding agreed CRs are following: CR 08.58 A054, CR 08.08 A215 and CR 48.008 A007 The CRs are attached (Tdocs GP-000263, GP-000382 and GP-000383).

DISCUSSION: This work can be considered as complete, except the outstanding changes to the figures in 3GPP TS 03.10. This is provide in contribution N3-000535.

RESULT: The LS was **NOTED**.

N3-000531: SA2's Reply to "LS on Service Modification without pre-notification". Presented by Masahiko of NEC.

CONTENT: This issue was discussed by SA2, but it was not clear which actions are required from SA2. SA2 ask CN3 and SA1 to clarify which actions on this issue are required from SA2.

DISCUSSION: CN3 have already mentioned in the initial LS to SA2, that the modification as a result of radio conditions is not within the scope of CN3. It is up to SA1 to decide who must resolve this problem.

Masahiko agreed to write an LS to SA1 and SA2, stating that SA1 and CN3 have WIDs for Service Modification without pre-notification. However SA1's WID also includes modifications due to radio conditions which is not within CN3's scope.

RESULT: The LS was **NOTED**.

N3-000540: LS to SA1 and SA2 on "Service Modification without pre-notification". Presented by Masahiko of NEC.

CONTENT: Contains the original LS fro SA2 as well as CN3's comments to that Liaison

DISCUSSION: Some editorial comments were made to the document during the meeting and it was revised.

△ **[ACTION N3_13_01] - NEC will ensure this LS and the issue of SMWOP is raised and discussed at the next SA1 meeting.**

RESULT: The LS was **REVISED to 0543**.

↓ RELATED DOCUMENT ↓

N3-000543: Rev. LS to SA1 and SA2 on “Service Modification without pre-notification”. Presented by Masahiko of NEC.

DISCUSSION: Some editorial comments were made to the document, and it was revised on-line.

RESULT: The LS was **REVISED to 0545**.

↓ RELATED DOCUMENT ↓

N3-000545: Rev. LS to SA1 and SA2 on “Service Modification without pre-notification”. Presented by Norbert.

RESULT: The LS was **APPROVED**.

6 Administrative issues

6.1 Project Co-ordination.

N3-000510: **Specifications Status Report of 3GPP Specifications.** Presented by David, MCC.

CONTENT: Created by John Meredith of the MCC, and presented and approved by SA#9 plenary.

RESULT: The document was **NOTED**.

N3-000524: **Status Report for all CN3 Specifications.** Presented by David, MCC.

CONTENT: Includes the status information, and Rapporteurs for all CN3 specifications.

DISCUSSION: David requested that we allocate rapporteurs to all of the CN3 specifications.

The status list was discussed and it was decided that 09.03, 09.04, 09.05, are dormant specifications and do not require a rapporteur.

Achim kindly offered to be rapporteur for 09.61, and 29.061.

△ **[ACTION N3_13_02] – David, MCC will update the rapporteur entries in the specifications database and re-present this document to future CN3 meetings.**

△ **[ACTION N3_13_03] - Norbert stated it is important to have a CN3 rapporteur for TS 07.60 and TS 27.060, and invites delegates to consider this for the next meeting.**

RESULT: The document was **DISCUSSED**.

N3-000513: **Working Planning Principles.** Presented by Norbert, CN3 chairman.

CONTENT: This document produced at the CN#9 meeting details TSG-CN's work planning principles.

DISCUSSION: This document was presented to TSG-SA for agreement. TSG-SA endorsed these same principles.

The principles that TSG CN/SA have agreed are:

- the decoupling of standards releases (versions of the standards) from the year on year deliverable approach
- that the stage 2 and 3 of the IP Multimedia Subsystem are included in the same release of the specifications (Currently UE-CSCF SIP stage 3 is scheduled for completion by Dec 01).
- that there is no priority or precedence given to Release 4 over Release 5 when working the feature in the working groups. Generally, for future parallel working releases there should be no priority or precedence given of one release over another.

RESULT: The document was **NOTED**.

N3-000515: 3GPP Project Plan. Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#9 plenary.

DISCUSSION: The project plan was discussed, and the Work Items where CN3 have responsibilities were verified on-line.

△ **[ACTION N3_13_04] - David will feed back the changes to the 3GPP project plan to Alain Sultan**

RESULT: The document was **REVIEWED**.

N3-000525: 3GPP Working Procedures. Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP working procedures, as approved at SA#9 plenary.

DISCUSSION:

RESULT: The document was **DISCUSSED**.

N3-000526: 3GPP Working Methods [3GPP TS 21.900]. Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP working methods, as approved at SA#9 plenary.

DISCUSSION: Contains CRs on the role of rapporteurs and a clarification for CR categories.

RESULT: The document was **NOTED**.

6.2 Terms of Reference / Future Work

N3-000511: CN3 Draft accommodated Terms of Reference and Dependencies to Other Groups.

CONTENT: The CN3 Terms of reference were presented to and approved by TSG-CN#9 meeting. The plenary requested minor changes to the text before it's approval, and these modifications are shown in this document as revision marks.

However, CN3 have been asked to further study the QoS elements of the ToR.

DISCUSSION: Minor editorial modifications to the text, however the scope of the QoS work is not yet fully clear to CN3, and the modifications for QoS will be made once CN3 have received clarification.

RESULT: The document was **REVISED to 0533**.

⇓ **REVISED** ⇓

N3-000533: Rev. CN3 Draft accommodated Terms of Reference

RESULT: The document was **AGREED**.

N3-000512: Allocation of IM work in CN working groups.

CONTENT: Contains the agreed work split for the IM work, as discussed and approved by TSG-CN#9.

DISCUSSION: Shows CN3 will have the responsibility of QoS, and interested companies are invited to provide the necessary Work Item description.

Norbert asked if the CN3 delegates thought they could provide contributions to these Work items – there was no response.

RESULT: The document was **DISCUSSED**.

6.3 Next meetings, allocation of hosts

N3-000523: **CN3 meetings for 2001.** Presented by Norbert.

CONTENT: Contains the listing year 2001 meetings for CN3 as well as other CN WGs.

DISCUSSION: CN3 are requested to align and co-locate their meetings with the other CN WGs for the 1st half of 2001.

CN3 agrees to move CN3#15 to 15-19 January, at which time they will examine the necessity to co-locate the #16 meeting to begin on 26th Feb 2001.

CN3 agrees to move week 17 meeting to week 20 [14-18 May].

CN3 also agrees to move the September meeting in week 36 to week 42 [15-19 Oct]. The move of November meeting from week 46 to 48 [26-30 Nov] is not yet finally agreed because it is then very close to CN plenary.

RESULT: The document was **REVISED to 0534.**

⇓ **REVISED** ⇓

N3-000534: **Rev. CN3 meetings for 2001.** Presented by Norbert.

RESULT: The document was **AGREED.**

| Meeting | Date | Location, Host | Comments |
|------------|---|--------------------------|----------------------------------|
| TSG-CN3#14 | 14 th – 16 th Nov 2000 | ETSI, Sophia | 3 day meeting |
| TSG-CN#10 | 4 th – 15 th Dec 2000 | Bangkok, Uniysis | |
| TSG-CN3#15 | 15 th – 19 th Jan 2001 | Ericsson, t.b.a | Co-located |
| TSG-CN3#16 | 26 th Feb–2 nd Mar 2001 | location t.b.a | Co-located - May not be required |
| TSG-CN#11 | 14 th –16 th Mar 2001 | Palm Springs, NA Friends | |
| TSG-CN3#17 | 14 th – 18 th May 2001 | USA, NA Friends | Co-located |
| TSG-CN#12 | 13 th – 15 th June 2001 | Stockholm, Ericsson | |
| TSG-CN3#18 | 9 th – 13 th July 2001 | Manesmann, Germany | |
| TSG-CN#10 | 19 th – 21 st Sept 2001 | China, Lucent | |
| TSG-CN3#19 | 15 th – 19 th Oct 2001 | Possibly UK | |
| TSG-CN3#20 | 26 th – 30 th Nov 2001 | Host required | Very close to CN plenary |
| TSG-CN#14 | 12 th – 14 th Dec 2001 | Japan, TTC | |

7 Release 99 and earlier:

7.1 CS Bearers

N3-000516: CR to 22.002 on Deletion of bearer service BS 30 NT. Presented by Norbert CN3 Chairman.

CONTENT: Contains the CR to 22.022 that removes the BS 30 NT, produced by SA1 and approved at SA#9 plenary. Note this CR is for R00 only and not for R99.

DISCUSSION: This CR is important to CN3 as it has potential impacts on our specifications (27.001, 27.003, 29.007, 03.10).

△ **[ACTION N3_13_05] - Rapporteurs are tasked to check their specifications, and provide the relevant CRs to remove BS 30 NT for the next CN3 meeting.**

RESULT: The document was **DISCUSSED**.

N3-000498: Discussion paper on Synchronous BS for UMTS. Presented by Juha, Nokia

CONTENT: The document identifies some inconsistencies in the specifications concerning the support of transparent circuit switched bearer services at various rates in UMTS.

These inconsistencies raise the following questions:

1. Was the V.110 based 48 kbit/s FNUR for UMTS left in TS 22.002 unintentionally?
2. Was also the V.110 based 56 kbit/s FNUR for UMTS left in TS 22.002, 27.001 and 23.910 unintentionally or at least with too little consideration?
3. Considering that the 56 and 64 kbit/s bit transparent cases are clearly specified and that the 56 kbit/s V.110 case serves for the same purpose as the 56kbit/s bit transparent case, can the 56 kbit/s V.110 case be regarded as obsolete or redundant and the requirement to support it in UMTS be removed from the specifications?

DISCUSSION: CN3 is of the opinion that SA1 should delete V.110 based 48kbit/s FNUR from 22.002 because the relevant RAN bearer does not exist in UMTS.

The V.110 based 56kbit/s FNUR exists only in GSM, but not in UMTS because the RAB bearer does not exist. However, there exist the 56 kbit/s bit transparent service in UMTS. If 56 kbit/s is provided in the bit transparent mode, no problems with handover exist. But if the 56 kbit/s is provided in the V.110 UDI mode, a problem exist when handover to 56 kbit/s in UMTS is required,

△ **[ACTION N3_13_06] delegates will study the impact of handover for the 56kbit/s bit transparent and V.110 in a separate brainstorming session .**

It was agreed to write an LS to SA1.

RESULT: The document was **DISCUSSED**.

⇓ RELATED DOCUMENT ⇓

N3-000548: LS to SA1 on synchronous BS. Presented by Achim of Alcatel.

RESULT: The document was discussed, the text improved to make it better understandable. **Revised to 0550.**

⇓ REVISED ⇓

N3-000550: LS to SA1 on synchronous BS. Presented by Achim of Alcatel.

RESULT: The document was **AGREED [And later WITHDRAWN]**.

NOTE: It was subsequently agreed by E-mail that the LS required further work – so it was withdrawn from the SA1 and RAN3 meetings, to be further studied at CN3#14 meeting.

7.2 Multimedia

No input to this agenda item.

7.3 GPRS

No input to this agenda item.

7.4 Technical Enhancements & Improvements (TEI)

N3-000494: R99 CR to 03.10v820 for TCH/F32.0 reference models. Presented by Juha of Nokia.

CONTENT: This CR adds the missing reference models for TCH/F32.0 to 03.10.

DISCUSSION: **Achim** questioned the requirement of RA2 in Model 2d. **Juha** agreed that this has a NULL function and is only there to indicate the use of 64Kbit/s. **Norbert** RA2 refers only to V.110 and we need to add a note here stating the input and output are both 64kbit/s if we do not want to remove it.

It was agreed to remove the RA2 from model 2d and 2e.

RESULT: The document was **REVISED to 0535**.

↓ **REVISED** ↓

N3-000535: Rev. R99 CR to 03.10v820 for TCH/F32.0 ref. models. Presented by Juha of Nokia.

RESULT: The CR was **AGREED**.

N3-000495: R99 CR to 04.21 v820 for Clean-up. Presented by Juha of Nokia.

CONTENT: This TS 04.21 has not been cleaned up for R99, and this CR does this. Replacing CCITT with ITU-T and aligning the text with the Drafting rules (use of Shall be), and adding the correct specification to the reference sections.

Also 1200/75 bit/s user data signalling rate has been removed from Section 4 as this is not required for R99

DISCUSSION: The error replacing 07.03 with 27.002, and was corrected in the revised CR.

Also incomplete removal of some specifications. Example **07.01** was corrected.

David, MCC suggested adding the correction details to the *Reason for change* in order to support its classment as a CAT F (Correction).

No need to indicate strategic/non strategic (SMG only).

Correct naming TSG-CN#14 and TSG-CN WG3 was used in the revised CR.

Correct title of 24.022 is "Radio Link Protocol (RLP) for Circuit Switched Bearer and Teleservices".

Correct title of 27.001 is "General on Terminal Adaptation Functions (TAF)for Mobile Stations (MS)".

Correct title of 29.007 is "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".

Rune hi-lighted that some terms such as 'will' have not been aligned with the drafting rules. Agreed that Juha and Rune will correct this over lunch.

RESULT: The document was **REVISED to 0537**.

↓ **REVISED** ↓

N3-000537: Rev. R99 CR to 04.21 v820 for Clean-up. Presented by Juha of Nokia

DISCUSSION: Minor change to the Subject on the CR cover.

RESULT: The document was **AGREED**.

N3-000496: R99 CR to 08.20 v820 for Clean-up. Presented by Juha of Nokia.

CONTENT: This specification has not been cleaned up for R99, and this CR provides some editorial corrections to the specification. Replacing CCITT with ITU-T and aligning the text with the Drafting rules (use of Shall be), and adding the correct specification to the reference sections.

DISCUSSION: Similar changes to CR cover sheet as made to N3-000495.

Correct title of 24.022 is "Radio Link Protocol (RLP) for Circuit Switched Bearer and Teleservices".

Correct title of 27.001 is "General on Terminal Adaptation Functions (TAF)for Mobile Stations (MS)".

Correct title of 29.007 is "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".

Also incomplete removal of some specifications. Example 07.01 was corrected.

Rune hi-lighted that some terms such as 'will' have not been aligned with the drafting rules. Agreed that Juha and Rune will correct this over lunch.

RESULT: The document was **REVISED to 0538**.

↓ **REVISED** ↓

N3-000538: Rev. R99 CR to 08.20 v820 for Clean-up. Presented by Juha of Nokia.

DISCUSSION: Minor change to the Subject on the CR cover.

Also error in the title of 24.022.

RESULT: The document was **REVISED to 0539**.

↓ **REVISED** ↓

N3-000539: Rev. R99 CR to 08.20 v820 for Clean-up. Presented by Juha of Nokia.

RESULT: The document was **AGREED**

N3-000497: Discussion Document on Intersystem handover problem. Presented by Juha of Nokia.

CONTENT: The paper provides an overview of a problem associated with intersystem handovers occurring within relay MSC (MSC-B) in a CS data call, as well as proposing some actions that are required to solve this problem.

Problem If a 3G->3G inter-MSC handover has been made, the access network protocol in the E interface is RANAP. When a subsequent intra-MSC 3G->2G intersystem handover is made, the IWF in the MSC-A does not get any indication of the change of the user plane format (from ATRAU' to ATRAU/TRAU when TDM is used in the E interface). Consequently, the data transmission fails after the handover.

N3 is requested to study the issue and initiate corrective measures, e.g. to send a liaison statement to the groups responsible for the handover related signalling to make them aware of the problem and get a correction in the signalling.

DISCUSSION: Clarification that **2G→2G→3G** handover will function with BSSMAP.

However it is the **3G→3G→2G** handover will not function, as RANAP does not signal this correctly over the E interface.

Achim: requested more time to think about this.

Achim: there are 2 possible solutions –

- inband search for framing
- outband signalling as in GSM

Preferable to have outband solution in order to be harmonised between 2G and 3G solutions.

Jean, Alcatel: there is an existing solution with using BSSMAP, and this covers most of the cases. **Juha** explained that the problem is with RANAP in the 3G MSC. **Jean** clarified that the specifications do not state that RANAP shall be used in this case, and it is may be possible to use BSSMAP to solve this handover. This would require modifications to the CN1 handover specification [23.009].

CN3 see two solutions:

Always use BSSMAP for handover between 3G-2G (as opposed to RANAP)

Correct the weaknesses in RANAP to allow it to signal correctly.

It was agreed that this problem is not to be solved by CN3, and it should be raised in CN1 and CN4 by liaison.

RESULT: The document was **DISCUSSED**.

⇓ **RELATED DOCUMENT** ⇓

N3-000547: **LS to CN1 and CN4 on the problems with intersystem handover.** Presented by Juha of Nokia

DISCUSSION: Some editorial improvements necessary.

RESULT: The document was **REVISED**

⇓ **REVISED** ⇓

N3-000549: **LS to CN1 and CN4 on the problems with intersystem handover.** Presented by Juha of Nokia

RESULT: The document was **AGREED**

8 Release 2000:

8.1 CS Multimedia Swap and Fallback

No input to this agenda item in this meeting.

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

8.2 RT Facsimile

No input to this agenda item in this meeting.

➤ [CN3 consider their work to this Work Item as 100% Complete](#)

8.3 Service Modification without pre-notification

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

N3-000499: **Discussion document on Preparation of Stage 1 Specification Work.** Presented by Masahiko of NEC.

CONTENT: The documents presents some background on the Stage 1 work for SMWOP.

At the SA#9 plenary meeting held in Honolulu Hawaii, USA, three CRs relating to the SMWOP were approved. Those CRs were made to TS 22.001, 22.105 and 22.129. These CRs are also contained within the ZIP file.

NEC report the completion of stage 1 work on Service modification without pre-notification within SA1.

DISCUSSION: **Norbert** commented that the delay in the approval of the WID for Service modification without pre-notification was due to the lack of input information from NEC and SA1, and NOT CN3 as the suggested by the discussion document.

Achim: some remarks to the text of CR to 22.001, especially “*And it shall be possible to perform before re-negotiating. If the subscriber checking is negative, it shall be able to return to previous bearer/QoS attributes.*” CN3 found the text unclear.

John Visser provided a clearer version of the text to improve understanding within CN3.

Achim: commented to the text below the table in 22.001. How should you request TS61 in the modify message?

Norbert: clarified that this would require 2 BC-IEs (one for voice, one for fax) in the modify message which is not possible.

Daisuke: agrees that this request is not correct, and we should send a LS to SA1 indicating this. Also the LS will ask SA1 why we require 2 separate fax services.

Rune: questioned inconsistencies in the deletion of “PS sessions” in the CR on 22.002. Masahiko agreed that this specification is only relevant for circuit switched services. Therefore, a requirements related to PS session is not appropriate for this TS.

It was agreed to send a LS to SA1 [**N3-000541**] asking for clarification on the above issues.

RESULT: The document was **DISCUSSED**.

⇓ **RELATED DOCUMENT** ⇓

N3-000541: **LS on SA1’s CR for Bearer Modification without Pre-notification.** Presented by Daisuke Igarashi of NTT DoCoMo.

CONTENT: Contains a LS to SA1 including a draft CR to TS 22.001 that clarifies CN3s understanding of the Bearer modification without pre-notification.

DISCUSSION: **Rune:** suggested the text of the LS was a little harsh.

Norbert added that it is not up to CN3 to make CRs to SA1 specifications.

He proposed explaining the problems in misunderstanding that CN3 had when reviewing the introduction of Bearer modification without pre-notification, and also proposing some text that clarifies CN3’s understanding.

Norbert edited the LS on-line during the meeting, and took comments directly on the new text.

Daisuke commented on the requirement to explain the situation for TS61 and TS62, as the text in the original CR is not applicable for service modification.

RESULT: The document was **REVISED to 0542**.

⇓ **REVISED** ⇓

N3-000542: **Rev LS on SA1’s CR for Bearer Modification without Pre-notification.** Presented by Norbert.

RESULT: The document was **APPROVED**.

N3-000517: **Document on Bearer Modification without Pre-notification.** Source SA1

DISCUSSION: Duplicates information contained in N3-000499, and is withdrawn.

RESULT: The document was **WITHDRAWN**.

N3-000529: Message flow for SMWOP. Source NEC, NTT DoCoMo

CONTENT: The objective of this document is to show the message flows of SMWOP. However, the message flows are not completed and the further detail discussions on this message flows are needed. The message flows described in the document are useful for progressing the discussions and provided for information to CN3.

DISCUSSION: The document describes the message flows for the subscriber method mentioned in N3-000530, but does not include the assumption that the relevant user data is stored in the HLR.

Norbert: what is the status of this document and the work on the message flows? If the authors welcome comments from CN3, then the other delegates require more time to examine these documents in detail.

Also the HLR is missing from these figures. Masahiko agreed that the HLR as well as the MSC-A and MSC-B need to be added to certain of these call flows.

This adds a new message flow between the HLR and the MSC-A

Due to the fact that the document is incomplete (missing elements and multimedia part) it was not discussed in detail.

The authors will present a revised version of the document to the CN3#14 meeting.

The document will be made available at least 5 days before the start of the meeting to enable delegates to examine its comments.

RESULT: The document was **NOTED**

N3-000530: Discussion document on Indication of prepared BC IE. Source NEC, NTT DoCoMo. Presented by Masahiko of NEC.

CONTENT: The documents provides some of the history behind the topic 'Indication of prepared BC-IE' and also attempts to resolve the open issues that include the following comments/question:-

- *Could the indication of other possible BC be stored in the network subscriber data instead of signalling it for every call?*
- *DL indication of the network support of the prepared BC should be considered*
- *Additionally to this the indication on whether the network is actually able/willing to assign the requested additional resources for the call should be considered*
- *Why is the prepared bearer capability IE needed? Why not use the existing BC IE?*

In conclusion NEC, NTT DoCoMo propose that the bearer attribute of network to be included in **subscriber data not in the signalling parameter**.

DISCUSSION: Achim: for the subscriber method where will the data be stored? **Masahiko** responded that the data would be stored in the HLR.

Norbert: questioned how this information is transferred from the HLR to the MSC / IWF? **Masahiko** responded that this issue is clarified in to the document N3-000529.

General concerns that the user can modify the information stored in the HLR, and questions on how this can be done.

Norbert: The subscriber method may be possible but it is not the most efficient, and it is desirable that an optimal solution be agreed within CN3. **Masahiko** agreed that this may not be the optimal method, and welcomes comments to the proposal.

Change to the understanding from the SA1/CN3 joint session held in Sophia. It was agreed that the speech bearer could be used for data transmission. This document now states that this is not possible.

Daisuke responded that this is due the possibility to compress the data on a speech bearer. In those cases data and facsimile transmission would fail.

Rune: commented that the discussion mixes both service and technical aspects. Usually user behaviour is discussed in SA1. Norbert agreed that the user behaviour is out of the scope of CN3.

Note: This contribution has not yet been seen by CN1, as they only have their next meeting mid-November.

RESULT: The document was **DISCUSSED**.

8.4 Text telephony

➤ CN3 consider their work to this Work Item as 0% Complete

N3-000518: **Global Text Telephony, Stage 1 description (22.226).** Presented by Rune of Ericsson.

CONTENT: Contains the Stage 1 description for GTT. The Stage 2 is still under discussion and not yet stable.

DISCUSSION: **Rune:** mentioned that the specification is fairly high level and describes only general service requirements.

Rune: made comments on the minimum (legal) requirement i.e. the work on the CTM solution and T.140. The CTM will, however, not affect CN3 as it uses the voice band only. It is for this reason that Rune does not expect that we will see a stage 2 document from SA2 in CN3 next year.

The CTM meets the legal requirements in USA.

Norbert: asked if we can commence stage 3 work based upon this stage 1 document. The general opinion is that we will see what contributions are received at the next meeting.

△ **[ACTION N3_13_07] - delegates are asked to study the Global Text Telephony, Stage 1 description document.**

RESULT: The document was **NOTED**.

8.5 Interworking between IM Subsystems and CS

➤ CN3 consider their work to this Work Item as 0% Complete

N3-000506: **Work item description for interworking between IM CN subsystem and circuit switched networks.** Presented by Norbert.

CONTENT: This WID has been approved by CN#9 Plenary, and now CN3 may begin work on this.

DISCUSSION: The document is provided for information.

△ **[ACTION N3_13_08] – The rapporteur and supporting companies are requested to provide contributions for the WI, Interworking between IM CN subsystem and CS networks**

RESULT: The document was **NOTED**.

N3-000519: **Stage 1 on IM CN Subsystem.** Source SA1

DISCUSSION: Provided only for information and delegates are invited to read these documents.

RESULT: The document was **NOTED**.

N3-000520: **Stage 2 on IM CN Subsystem.** Source SA2

DISCUSSION: Provided only for information and delegates are invited to read these documents.

RESULT: The document was **NOTED**.

8.6 Interworking between IM Subsystems with IP

➤ CN3 consider their work to this Work Item as 0% Complete

N3-000507: **Work item description for interworking between IM CN subsystem and packet switched networks.** Presented by Norbert.

CONTENT: This WID was agreed by CN3 but NOT approved by CN#9 Plenary. The main comments came from Nokia, and these are presented in **N3-000536**.

DISCUSSION: The document is provided for information. However following the discussions on N3-000536, it was agreed that this document must be reconsidered, in conjunction with the QoS work item.

RESULT: The document was **NOTED**.

N3-000536: **Comments on proposed WI "Interworking between IM CN Subsystem and IP Networks"**. Presented by Juha of Nokia.

CONTENT: Contains comments from Nokia to the WID contained in N3-000507. Generally Nokia request some modifications to the WID.

Nokia proposes that the work item is not approved in its current form without clarification of the issues indicated in this document. It should also be taken into account that 3GPP TSG SA WG2 has already quite thoroughly dealt with the issue of QoS interworking between UMTS and external IP networks for end-to-end QoS provisioning, and it is proposed that CN3 evaluates the work done in S2 to avoid doing the same work again and that CN3 corresponds with S2 to find out which open issues remain to be solved in this area.

DISCUSSION: **Norbert** commented that the document has been provided too late for most delegates to be able to provide answers to the questions raised.

Norbert also suggested that we examine the scope of the work and see what parts of the work needs to be handled by CN3, and which parts are outside of the scope of CN3.

Comments were made to each of the questions:

a) **Question:** in the work item description, it is stated, "The interworking requirement may be especially true for IP based networks that do not support potential U Plane aspects which are specific for the mobile networks (e.g. those selected for radio resource optimisation reasons)." It needs to be clarified which user plane aspects are addressed by this sentence. Radio resource optimisation on the user plane like header compression is terminated in the radio access network and thus does not affect the GGSN and/or the Gi interface. User plane issues are usually transparent to the Gi reference point.

Comments: Norbert agrees that the text in **3. Justification** can be improved to avoid misunderstandings in the work to be carried out by CN3 and RAN.

Daisuke, Lucent suggested that we examine where the QoS work for CN3 should be covered. Presently the QoS WID covers most of the required work. **Juha** agreed that we need to examine the contents of the QoS WID and see what other elements remain to be covered by *this* WID. It may be possible to remove the QoS elements of this WID and cover them in the other QoS WID. Any remaining work could be covered in this WID.

Juha expressed concerns that BT have initiated this WID, but no-one from BT is present in this meeting to answer the questions raised by Nokia.

b) **Question:** it is not clear how the justification of the work item relates to the title of the work item description. The title of the work item description refers clearly to the IM CN Subsystem, while the justification only refers to the GGSN, which does not belong to the IM CN Subsystem. No issues related to the IM CN Subsystem are mentioned in the justification of the work item. It needs to be clarified why there is a need for interworking between IM CN subsystem elements (CSCF, MGW, MGCF, R-SGW and T-SGW) and IP networks.

Comments: Norbert: SA2 have identified the requirement for interworking between IM subsystem and IP. The CN3 WID concentrates on the Gr interface and the Mm interfaces. CN have provided guidance that CN3 are responsible for the interfaces

Achim: In addition there may be a requirement for a new PDP type format may be required. **Juha** considers this is currently being studied by SA2 for their work on QoS.

Juha: This work relates closely to the WI QoS from SA2. This is not available in this meeting, but Norbert suggested we have it as input to the CN3#14 meeting, so that the work can be fully discussed.

- c) **Question:** In the objective (section 4) of the work item, it is stated that protocols over the Mm reference point have to be established. In 23.821v1.0.0, it is stated, "The single call control protocol applied to the interfaces between MGCF and CSCF, between CSCFs within one operator's network and between CSCFs in different operator's networks will be based on SIP (as defined by RFC 2543, other relevant RFC's, and additional enhancements required to support 3GPP's needs)." This covers the Mm reference point (which is the interface towards CSCFs in different operators' networks). The responsibility for SIP enhancements currently lies with 3GPP TSG CN WG1. It needs to be clarified in which way this work item intends to amend these decisions and which need for additional protocols on the Mm reference point is foreseen.

Comments: Achim: this WID was drafted before the CN decision on work split including SIP. In addition interworking between SIP and other multimedia protocols such as H.323 is required over the Mm interface. **Juha:** this most probably falls under the responsibility of CN1.

Norbert: If SIP covers all issues relating to the Mm interface than this Mm interface is in the entirely within the scope of CN1. However if interworking between SIP and other multimedia protocols such as H.323 is not included in SIP, then CN3 should have the responsibility for this work.

- d) **Question:** It is also mentioned in the objective of the work item that the work item should "encompass the transport protocol and signalling issues for negotiation and mapping of bearer capabilities and QoS information." It has to be clarified which transport protocols are intended to be covered by this work item and on which interface these transport protocols are to be defined. The transport protocols on the Gi interface are transparent to the GGSN, as they are an end-to-end issue between terminals, i.e. they do not fall into CN3's responsibility. The transport protocols on the Mm interface are already defined in the IETF, as SIP can run both over UDP and TCP.

Comments: This task is derived from the CS domain and adapted for the IM domain.

Juha: the misunderstanding may be resolved by clearly identifying in the WID the different protocols involved. For the Mm interface the protocols must be studied.

It was stated that the term "transport protocol" is misleading.

- e) **Question:** In section 7 (Charging Aspects) of the work item, it is stated that no charging aspects have been identified. However, the work item description covers QoS aspects, which can not be fully handled without considering charging issues. Also, the possibility that security aspects are covered (e.g. theft of service scenarios) should not be ruled out.

Comments: Charging and Security are in the scope of dedicated groups (SA3 and SA4), and not within the remit of CN3. However if CN3 consider that there is potentially charging and security aspects to this work, CN3 will liase this information to those groups.

Summary: This document has hi-lighted some potential weaknesses with the CN3 WID "Interworking between IM CN Subsystem and IP Networks". This also relates closely to the WID for QoS, and it may be possible to combine these two WIDs. However, in order to do this, the QoS document needs to be examined closely by CN3.

△ **[ACTION N3_13_09] – Delegates are asked to study the WID for "Interworking between IM CN Subsystem and IP Networks" and also the Nokia document and propose some solutions to the CN3#14 meeting.**

It was agreed to send an LS to SA2 **[N3-000544]** asking for guidance on the scope of work for stage 3 QoS and the responsibilities of CN3, and what is the basis for our work.

Also possible participation of CN3 delegates participating in the S2 QoS ad-hoc. Alternatively CN3 would invite SA2 to report to CN3 on the status of QoS.

RESULT: The document was **DISCUSSED**.

↓ **RELATED DOCUMENT** ↓

N3-000544: **LS to SA2 on QoS.** Source Nokia, CN3.

DISCUSSION: Some minor editorial modifications were made on-line. Also the missing attachment will be added to the revised document.

RESULT: The document was **REVISED to 0546**.

↓ **REVISED** ↓

N3-000546: **Rev. LS to SA2 on QoS.**

RESULT: The document was **APPROVED**.

N3-000500: **Interworking Mobile IP with MPLS in All-IP Based Core Networks.** Presented by Sharif, of Interdigital Communications.

CONTENT: The document describes the Mobile IP and MPLS protocols, and describes how these protocols can be integrated to provide fast switching of IP packets.

DISCUSSION: The document is restricted only to the issues relating to the IETF. However there may also be inputs from other organisations such as ITU-T and 3GPP that need to be considered and integrated with the content of this document.

Note: Study of Mobile IP has already been carried out within SA2 and resulted in a TR 23.923 [*Combined GSM and Mobile IP mobility handling in UMTS IP CN*]. Also a CR has been made to 3GPP TS 29.061 (CR14) on Mobile IP. Sharif is advised to examine these two documents and see how they relate to this study.

RESULT: The document was **DISCUSSED**.

8.7 Bearer Independent Circuit-switched Core Network

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

N3-000509: **Bearer Independent Circuit-Switched Core Network.** Source CN4

CONTENT: Contains the CN4 WID for Bearer Independent Circuit-Switched Core Network that was approved by CN plenary#9. The document also describes the work split between CN4 and CN3.

DISCUSSION: For the Stage 3 describing the UMTS specific protocol impacts e.g. new packages for H.248. CN3 shall determine the parameter values applicable to standardization activities within CN3.

Achim: will we introduce BICC into 29.007? **Norbert:** the split of transport and control needs to be examined, and the required changes integrated into TS 29.007.

This document is considered to be the basis for CN3's future work on Bearer Independent Circuit-Switched Core Network.

RESULT: The document was **NOTED**.

8.8 IWF at the CN Border

➤ CN3 consider their work to this Work Item as 0% Complete

N3-000508 **IWF at the CN border.** Source CN3

CONTENT: Contains the CN3 WID for IWF at the CN border that was presented to the CN plenary. However, as there are no WID rapporteur or supporting companies, the work item was not approved in the CN plenary.

Norbert mentioned during the plenary that there may further support resulting from discussions within CN3. CN Plenary therefore referred the WID back to CN3 for further study.

DISCUSSION: Ericsson and Alcatel agreed to be supporting companies, and delegates are invited to consider participation. The topic will be raised again at CN3#14, by which time it is hoped there will be more supporting companies and a WI rapporteur.

RESULT: The document was **DISCUSSED**.

8.9 Other Work Items

N3-000521 **3GPP TS 23.107 QoS Concept and Architecture.** Source SA2

CONTENT: SA2 TS 23.107 that was approved by SA plenary, presented here for information.

DISCUSSION: Juha pointed out the text in 9.2 and 9.3 indicating CN3s involvement.

Norbert stressed that this is only for the Packet domain, and there may be additional work required for the IM domain.

RESULT: The document was **NOTED**.

➤ CN3 consider their work to this Work Item as 0% Complete

9 Output of CN3#13 Meeting

9.1 Work Items

None.

9.2 Liaison Statements

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

| TDoc # | Tdoc Title | LS to | LS cc | Attachment | Sent |
|-----------|---|----------|-------|------------|-----------|
| N3-000542 | Problems in understanding with SA1's CRs to 22.001 for SMWOP | SA1 | - | none | 20/10/00 |
| N3-000545 | Response LS on Service Modification without pre-notification | SA1, SA2 | - | S2-001518 | 20/10/00 |
| N3-000546 | Request for requesting clarification on QoS work distribution | SA2 | - | N3-000512 | 20/10/00 |
| N3-000549 | Intersystem handover problem | CN1, CN4 | - | N3-000497 | 20/10/00 |
| N3-000550 | Synchronous BS in UMTS | SA1 | RAN3 | | WITHDRAWN |

9.3 Change Requests

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

| TDoc # | Spec | Rel | CR # | Rev | CR Title | CAT | C_Ver | N_Ver | WI |
|-----------|-------|-----|------|-----|---|-----|-------|-------|-------|
| N3-000535 | 03.10 | R99 | A013 | | TCH/F32.0 reference models | F | 8.2.0 | 8.3.0 | T.E.I |
| N3-000537 | 04.21 | R99 | A020 | | Removal of the 1200/75 bit/s data rate and general clean-up | F | 8.2.0 | 8.3.0 | T.E.I |
| N3-000539 | 08.20 | R99 | A009 | | Removal of the 1200/75 bit/s data rate and general clean-up | F | 8.2.0 | 8.3.0 | T.E.I |

9.4 New TRs / TSs

None.

9.5 Other

| TDoc # | Type | Numb | Version | Title |
|-----------|------|------|---------|-----------------|
| N3-000533 | | | | Revised CN3 ToR |

9.6 Summary of CN3#13 Action Points

| ACTION NUMBER | OWNER | DESCRIPTION | TARGET DATE | STATUS |
|---------------|-------------|--|-------------|--------|
| N3_12_06 | NOKIA | Nokia will provide a draft CR on 32kbit/s UDI/RDI multimedia to N1 and present the LS at the next CN1 meeting (N1 meeting to be held next week.) | by CN3#14 | OPEN |
| N3_13_01 | NEC | NEC will ensure the issue of SMWOP is raised and discussed at the next SA1 meeting, in order to ensure a solution within CN3. | by CN3#14 | OPEN |
| N3_13_02 | MCC | David will update the rapporteur entries in the specifications database and re-present this document to future CN3 meetings. | by CN3#14 | OPEN |
| N3_13_03 | ALL | Norbert stated it is important to have a CN3 rapporteur for TS 07.60 and TS 27.060, and invites delegates to consider this for the next meeting. | Ongoing | OPEN |
| N3_13_04 | MCC | David will feed back the changes to the 3GPP project plan to Alain Sultan | by CN3#14 | OPEN |
| N3_13_05 | Rapporteurs | Rapporteurs are tasked to check their specifications, and provide the relevant CRs to remove BS 30 NT for the next CN3 meeting. | by CN3#14 | OPEN |

| ACTION | OWNER | DESCRIPTION | TARGET DATE | STATUS |
|----------|-------------------------------------|--|-------------|--------|
| N3_13_06 | ALL | Delegates will study the impact of handover for the 56kbit/s bit transparent and V.110 in a separate brainstorming session . | Ongoing | OPEN |
| N3_13_07 | ALL | delegates are asked to study the Global Text Telephony, Stage 1 description document. | Ongoing | OPEN |
| N3_13_08 | Rapporteur and supporting companies | The rapporteur and supporting companies are requested to provide contributions for the WI, Interworking between IM CN subsystem and CS networks | by CN3#14 | OPEN |
| N3_13_09 | ALL | Delegates are asked to study the WID for "Interworking between IM CN Subsystem and IP Networks" and also the Nokia document and propose some solutions to the CN3#14 meeting | by CN3#14 | OPEN |

10 Any other business

There was no other business raised at this point.

11. Close of meeting

Norbert closed the 13th CN3 meeting on Thursday 19th October at 12:30, 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.

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#13.

Annex B: List of CN3 Meeting Participants

The following delegates attended the CN3#13 meeting.

| First Name | Last Name | Company | Status | Telephone | email |
|-------------|-------------|--------------------------------|--------------------|-------------------|--|
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Annex C: List of documents

Details can also be found in the file *N3_13_Tdoc_list.xls* on the meeting server.

| TDoc # | Type | Tdoc Title | Spec | Rel | Status |
|-----------|----------------|---|--------|-----|-----------------------|
| N3-000493 | AGENDA | Draft Agenda for CN3#13 meeting | | | APPROVED |
| N3-000494 | CR | TCH/F32.0 reference models | 03.10 | R99 | REVISED to 0535 |
| N3-000495 | CR | Cleanup | 04.21 | R99 | REVISED to 0537 |
| N3-000496 | CR | Cleanup | 08.20 | R99 | REVISED to 0538 |
| N3-000497 | DISCUSSION DOC | Intersystem handover problem | | R99 | POSTPONED to Thursday |
| N3-000498 | DISCUSSION DOC | Synchronous BS in UMTS | | R99 | DISCUSSED |
| N3-000499 | | Preparation of Stage 1 Specification Work | | R00 | DISCUSSED |
| N3-000500 | REPORT | Report: Interworking Mobile IP with MPLS in All-IP Based Core Networks | | R00 | NOTED |
| N3-000501 | LS IN | Answer to LS on 32 kbit/s UDI/RDI multimedia | | | NOTED |
| N3-000502 | REPORT | Status Report of TSG-N3 to TSG-N plenary | | | NOTED |
| N3-000503 | REPORT | Draft Report for CN3#12 Seattle Meeting | | | APPROVED |
| N3-000504 | REPORT | Brief notice from CN#9 plenary to CN3 | | | NOTED |
| N3-000505 | REPORT | Draft Report of CN#9 Meeting | | | NOTED |
| N3-000506 | WID | Revised proposed work item description for interworking between IM CN subsystem and circuit switched networks | | | NOTED |
| N3-000507 | WID | Revised proposed work item description for interworking between IM CN subsystem and IP networks | | | NOTED |
| N3-000508 | WID | IWF at the Edge | | | NOTED |
| N3-000509 | WID | Bearer Independent Circuit-Switched Core Network | | | NOTED |
| N3-000510 | LIST | Specifications Status List | | | NOTED |
| N3-000511 | ToR | Terms of Reference of CN3 | | | REVISED to 0533 |
| N3-000512 | REPORT | Allocation of IM work to CN WGs | | | NOTED |
| N3-000513 | REPORT | Work Planning Principles | | | NOTED |
| N3-000514 | | Make calls for IPRs | | | NOTED |
| N3-000515 | PROJECT PLAN | Project plan (latest version) | | | REVIEWED |
| N3-000516 | [CR] | Deletion of BS 30 NT | 22.002 | | DISCUSSED |
| N3-000517 | [CR] | Bearer Modification without Pre-notification | | | WITHDRAWN |
| N3-000518 | [TS] | Stage 1 on GTT | 22.226 | | NOTED |
| N3-000519 | [TS] | Stage 1 on IM CN Subsystem | 22.228 | | NOTED |
| N3-000520 | [TS] | Stage 2 on IM CN Subsystem | 23.228 | | NOTED |
| N3-000521 | [TS] | QoS Concept and Architecture | 23.107 | | NOTED |
| N3-000522 | AGENDA | alloc of documents to agenda items | | | AGREED |
| N3-000523 | | Meeting Dates | | | REVISED to 0534 |
| N3-000524 | LIST | List of CN3 specs with Rapporteurs | | | REVIEWED |
| N3-000525 | | Working Procedures | | | NOTED |

| TDoc # | Type | Tdoc Title | Spec | Rel | Status |
|---------------|----------------|--|-------------|------------|-----------------|
| N3-000526 | [TS] | Working Methods (at least tdocs SP-000402, 492, 461) | | | NOTED |
| N3-000527 | | Drafting rules | | | WITHDRAWN |
| N3-000528 | | MCC was requested by SA#9 to give guidance how to use WID sheets. Is there anything? | | | WITHDRAWN |
| N3-000529 | DISCUSSION DOC | Message flow for SMWOP | | | NOTED |
| N3-000530 | DISCUSSION DOC | Indication of prepared BC(Max ITC) | | | DISCUSSED |
| N3-000531 | LS IN | SA2's Reply to "LS on Service Modification without pre-notification" | | | NOTED |
| N3-000532 | REPORT | ITU-T ToR for Special Study Group WTSA | | | NOTED |
| N3-000533 | ToR | REV. Terms of Reference of CN3 | | | APPROVED |
| N3-000534 | CALENDAR | Meeting Dates | | | APPROVED |
| N3-000535 | CR | TCH/F32.0 reference models | 03.10 | R99 | AGREED |
| N3-000536 | | Comments on proposed WI "Interworking between IM and IP networks" | | | DISCUSSED |
| N3-000537 | CR | Removal of the 1200/75 bit/s data rate and general clean-up | 04.21 | R99 | AGREED |
| N3-000538 | CR | Removal of the 1200/75 bit/s data rate and general clean-up | 08.20 | R99 | REVISED to 0539 |
| N3-000539 | CR | Removal of the 1200/75 bit/s data rate and general clean-up | 08.20 | R99 | AGREED |
| N3-000540 | LS OUT | Response LS on Service Modification without pre-notification | | | REVISED to 0543 |
| N3-000541 | LS OUT | LS indicating problems with CRs to 22.001 for SMWOP | | | REVISED to 0542 |
| N3-000542 | LS OUT | Problems in understanding with SA1's CRs to 22.001 for SMWOP | | | APPROVED |
| N3-000543 | LS OUT | Response LS on Service Modification without pre-notification | | | REVISED to 0545 |
| N3-000544 | LS OUT | Concerns on the scope of QoS | | | REVISED to 0546 |
| N3-000545 | LS OUT | Response LS on Service Modification without pre-notification | | | APPROVED |
| N3-000546 | LS OUT | Concerns on the scope of QoS | | | APPROVED |
| N3-000547 | LS OUT | Problems on intersystem handover | | | REVISED to 0549 |
| N3-000548 | LS OUT | LS requesting clarification on Synchronous Bearer Services in UMTS | | | REVISED to 0550 |
| N3-000549 | LS OUT | Problems on intersystem handover | | | APPROVED |
| N3-000550 | LS OUT | LS requesting clarification on Synchronous Bearer Services in UMTS | | | APPROVED |

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 | |
|-------------------------------|---|
| 19 th October 2000 | Draft v1.0.0 distributed to CN3 chairman for comments |
| 25 th October 2000 | <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: david.boswarthick@ETSI.fr</p> <p>A deadline of 2 weeks was given to the CN3 delegates for e-mail comments on the draft report.</p> <p style="text-align: center;">Comments back by 7th November 2000</p> |
| 8 th November 2000 | Updated DRAFT v2.0.0 placed to the server |
| | N3-000552[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#14 meeting. Updated to N3-000581 and placed to the server as v3.0.0. |