

Third Generation Partnership Project

MEETING REPORT v3.0.0

**3GPP TSG-CN3
Meeting # 15**

**Beijing, China.
15th – 19th January 2001**



Hosted by

ERICSSON 

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1 Opening of the Meeting

The 15th CN3 meeting took place from 15th - 19th January in the SWISSOTEL Beijing China.

Erik Colban welcomed the CN3 delegates to Beijing on behalf of Ericsson, and explained the logistical details for the rest of the week as well as some interesting information on Beijing and the surroundings.

Ericsson also kindly provided a social event on Wednesday in an excellent local restaurant.

As there were a number of new delegates in the meeting, David of MCC requested a brief presentation of each person to make things easier for all.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 15th. He set the objectives for the meetings as follows:

?? **Make progress on Rel-4 work especially BICC and IMS interworking in joint sessions**

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

2 Approval of the Agenda

N3-010001: CN3#15 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#15 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 CN3_CN1 and joint CN3_CN4 were arranged for Tuesday and Wednesday. The meeting reports for these meetings can be found in sections 9 and 10 of the agenda and this meeting report.

Erik asked if for clarification of the TEI for R99 Agenda item. Norbert explained that CN#10 meeting it was decided that CN WGs should present their CRs to R99 under the existing R99 Work Items. If a CR cannot be allocated to one of these R99 WIs it can be allocated to R99 TEI.

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_15_\(Beijing\)/Docs/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_15_(Beijing)/Docs/)

N3-010048: Allocation of documents to Agenda items. Presented by the 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.

Norbert also explained colour code used in this tdoc allocation.

Yellow document available but not yet seen in;

No colour document already dealt with;

Red document not yet available;

Green Agreed CN3 output document;

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

4 Reports

4.1 CN3#14 Meeting Report, (Sophia)

The meeting report can be found at:

[ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_14_\(Sophia\)/Report/](ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_14_(Sophia)/Report/)

N3-010002: CN3#14 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#14 held in Sophia.

The CN3#14 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: Some minor comments received from Erik at beginning of meeting. These comments were integrated into the revised meeting report.

David thanked Ericsson for the comments, but requested to all delegates that comments to previous meeting are received some time before the beginning of the following meeting in order to enable a complete report to be presented for approval.

Achim also provided an update on the status of the LS sent to T2 on DHCP lease renewal. Kevin Holley has send a mail explaining that T2 does have the expertise to respond on that subject. Achim proposes re-discussing the related CRs in this meeting. They can be found in N3-010057 and 0058.

RESULT: The document was **REVISED to 0056.**

? **REVISED?**

N3-010056: Rev. CN3#14 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_12_06	NOKIA	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	Status unknown	DONE
N3_13_03	ALL	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	Still an important requirement	OPEN
N3_13_07	ALL	Delegates are asked to study the Global Text Telephony, Stage 1 description document.	Ongoing	No work required on GTT in CN3	CLOSED
N3_13_08	Supporting companies	Provide contributions for the WI, Interworking between IM CN subsystem and CS networks	by CN3#14	Some contributions made to this WI in CN3#15 meeting	DONE
N3_13_09	ALL	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	WID in N3-010087 agreed	DONE
N3_14_01	DAVID, MCC	Feed back the changes to the 3GPP project plan to Alain Sultan	21/11/00		DONE
N3_14_02	Erik, Rune	Circulate the CR(s) to 27.001 by Email	20/11/00		DONE
N3_14_03	DAVID, MCC	Update rapporteur entries in dbase	end Dec 2000		DONE
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_14_05	Erik	Initiate E-mail discussion on 3GPP TS 29.415	before CN3#15	As the document has some delay no e-mail discussion was held	NOT DONE CLOSED
N3_14_06	Norbert	Arrange a joint CN4 session in the Jan meeting to discuss BICC	before CN3#15		DONE

4.2 Reports from last TSG CN Plenary

N3-010003: CN#10 Draft Meeting Report. Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN#10 held in Bangkok.

The CN 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 NOT YET been integrated into the version presented in this document. However the comments received by on the report are editorial and non-contentious.

The document is presented to CN3 for INFORMATION.

RESULT: The document was **NOTED**.

N3-010014: Status Report from CN3 Chairman to CN#10. Presented by CN3 Chairman.

CONTENT: Contains the CN3 chairman's report as presented to CN#10 meeting in Bangkok.

The document is presented to CN3 for INFORMATION.

DISCUSSION: Norbert thanked the delegates for the comments received before CN plenary.

In the CN plenary, BT commented to part of the CN3 meeting report, asking why no progress has been made to interworking between IMS-CS and IMS-PS. Norbert replied it was due to the fact the rapporteur has not been present in the CN3 meetings. Norbert has been informed that the company providing the leadership for these Work Items will send a new rapporteur to CN3 meetings in the future.

RESULT: The document was **NOTED**.

N3-010015: Brief notice from CN and SA#10 to CN3. Presented by CN3 Chair.

CONTENT: Contains the E-mail send by Norbert to the CN3 mail list following the CN#10 Plenary meeting.

The document is presented to this meeting for INFORMATION.

DISCUSSION: There was a discussion on the terms used by CN3 to describe GSM and UMTS.

Achim asked if CS data is supported by GERAN. Erik replied that he believes that CS is supported by GERAN. This means there is a requirement for interworking to the GERAN lu and A interfaces.

CN1 have replaced the terms "in GSM" by "A/Gb-mode" and "in UMTS" by "in lu-mode".

GERAN has two options "A interface" and "lu interface". Interworking between UMTS CN and GERAN is a new requirement.

Erik stated that lu with GERAN provides more services that lu with UTRAN. UTRAN only has bit rates over 9.6kbit/s and non transparent services. The question of lower bit rates and transparent services with GERAN is complex.

UMTS core network can only support those services supported by UTRAN.

GSM MSC R99 supports the A interface

UMTS MSC R99 supports the lu interface

Of course these can be combined. With GERAN, the UMTS MSC R99 has to support the A interface too. CN3 has to study whether the used terms "UMTS" and "GSM" are precise enough.

Discussion on terminology was postponed - offline discussion needed.

RESULT: The document was **NOTED**.

N3-010016: Status Report from CN#10 to SA#10. Presented by David Boswarthick, MCC.

CONTENT: Contains the CN Chairman's report (slides) to SA#10 Plenary.

The document is presented to CN3 for INFORMATION.

RESULT: The document was **NOTED**.

4.3 Reports from Other Groups

N3-010043: **Draft Meeting Report from SA#10.** Presented by CN3 Chairman.

CONTENT: Contains the latest version of the SA#10 meeting report.

The document is presented to CN3 for INFORMATION.

DISCUSSION: Norbert hi-lighted the SA2 CR on the removal of the facsimile services TS61 and TS62 in non-transparent mode in GSM. Also it can be noted that TS 03.46 does not need to be included in Rel-4 and beyond.

RESULT: The document was **NOTED**.

N3-010017: **CR to 23.101 on the structure of the user equipment.** Presented by CN3 Chairman.

CONTENT: Contains a CR introducing the definition of User Equipment and providing an example of typical UE configurations. Presented to CN3 for information.

DISCUSSION: CN3 rapporteurs should be aware of the discussion on the UE and ensure their specifications are up to date (at least the 27 series and 03.10).



[ACTION N3_15_01] - All Rapporteurs to check their specifications to ensure they align with the UE terminology (see CR to 23.101)

RESULT: The document was **NOTED**.

N3-010018: **LS from TIPHON to 3GPP on QoS.** Presented by CN3 Chairman.

CONTENT: Contains a LS from TIPHON that describes their work on QoS. This information will be examined by SA2.

The document is presented to CN3 for INFORMATION. CN3 are still awaiting stable stage 2 documentation on QoS from SA2. However delegates are invited to read the available documentation being produced by SA1 and SA2.

RESULT: The document was **NOTED**.

N3-010019: **CR to TS 22.003 on Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases.** Presented by CN3 Chairman.

CONTENT: CR to TS 22.003 on Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases. Provided as support for the CRs presented on this subject later in the CN3#15 meeting.

RESULT: The document was **NOTED**.

4.4 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

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)
N3-000488	DHCP lease renewal	T2		N3-000401, N3-000411, N3-000457	07/09/00	Seen at T2#11
N3-000542	Problems in understanding with SA1's CRs to 22.001 for SMWOP	SA1	-	none	20/10/00	Seen at S1#10
N3-000545	Response LS on Service Modification without pre-notification	SA1, SA2	-	S2-001518	20/10/00	Seen at S1#10 and S2#15
N3-000546	Request for requesting clarification on QoS work distribution	SA2	-	N3-000512	20/10/00	Seen at S2#15
N3-000549	Intersystem handover problem	CN1, CN4	-	N3-000497	20/10/00	Seen at N1#14 and N4#5
N3-000599	Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases	SA1	-	none	15/11/00	Seen at S1#10
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	Not seen until Seen at N1#15 (15 - 19 Jan)
N3-000613	Proposed enhancements to Mc specification	CN4, RAN3		N3-000563	16/11/00	Seen at N4#5 and R3#17

N3-010005: LS IN from CN4 on the intersystem handover problem. Presented by Jean of Alcatel.

CONTENT: This contains CN4s response to CN3s previous LS on intersystem handover, and relates to the LS in N3-010004 from CN1 on the same issue.

DISCUSSION: CN4 is of the opinion that this is already dealt with in the current stage 2 specification TS 23.009 (Handover procedures (Release 1999)).

In summary - BSSMAP can be used to transport handover information.

RESULT: The document was **NOTED**

N3-010004: LS IN from CN1 on the intersystem handover problem.

CONTENT: TSG CN WG1 has analysed the LSs from CN3 and CN4, and agree on that this is already dealt with in the current stage 2 specification TS 23.009 (Handover procedures (R99)).

Therefore CN1 informs CN3 and CN4 of the following:

CN1 confirms its understanding of TS 23.009 regarding this problem is correct;

CN1 will include CN4's proposal to use the BSSMAP Handover Performed message over MAP-E to cover the scenarios related to subsequent intersystem intra-MSC handover in 3G MSC-B, into TS 23.009.

The LS also contains the CR N1-001372 which has been approved by CN1.

DISCUSSION: This document relates to the LS in N3-010005, and the conclusion is once again that CN3 may use BSSMAP.

RESULT: The document was **NOTED**

N3-010006: LS IN from RAN3 on the Working Assumptions made by CN3 for the new TS 29.415.

DISCUSSION: This LS was postponed to the joint session with CN4

RESULT: The document was **POSTPONED to BICC session [see section 9].**

N3-010007: **LS IN from SA1 on Bearer Modification without pre-notification.** Presented by Masahiko of NEC.

CONTENT: Since the initial requirement was communicated to CN3, the document defining the general requirements for bearer modification without pre-notification, TS 22 105, has been updated to add clarity to these requirements.

DISCUSSION: **Achim:** TS 22.105 will need to be further modified to reflect the changes to requirements proposed by NEC for SMWOP. The work will be done in multimedia swap and fallback. The text in this LS from SA1 does not reflect CN3's understanding of the current situation regarding SMWOP and Swap and fallback. NEC should take actions to ensure SA1 are aware that the requirements for SMWOP are no longer required by the companies required this service originally.

RESULT: The document was **NOTED**.

N3-010008: **LS IN from SA2 on Asymmetric Transfer Delay.** Presented by CN3 chairman.

CONTENT: SA2 bring to the attention of CN1 and CN3 that stage 3 work is required for support of asymmetric Transfer Delay QoS attribute in REL-4.

For bi-directional bearer services, the attribute Transfer delay shall be capable of being set separately indicated for uplink/downlink in order to support asymmetric bearers. This is an extension of the other asymmetric attributes: Maximum bit rate and Guaranteed bit rate, as specified in 23.107.

A change request has been approved for TS 23.107, REL-4 by SA2. The CR is attached to the LS. This CR adds text to indicate that the transfer delay is also an asymmetrical attribute.

DISCUSSION: CN3 should check their specifications [at least 23.910, 27.001] to see if and where this new QoS attribute is required.

It was noted that this functionality is optional (should is used instead of shall).

Erik: mentioned that there is no stage 1 specifications stating the user should be able to have different bearer services in the two directions. However it is not up to CN3 to request this service to be introduced by SA1.

Achim: does this apply to only packet or also circuit switched? CN3 has the following question: - for which services does the asymmetric function apply?

The requested change would not have any impact on CN3' specifications if asymmetric functions are only for PS. It would have impact on CN3's specifications if it applies for CS too. But CN3 has never seen requirements for asymmetric functions in CS. Confusion!

It was agreed to send a LS to SA2 requesting clarification on this, also copied to SA1. This LS can be found in **N3-010062**.

RESULT: The document was **NOTED**.

? RELATED DOCUMENT ?

N3-010062: **LS OUT to SA2 on Asymmetric Transfer Delay.** Presented by Achim , Alcatel.

CONTENT: In CN3's opinion asymmetric services are defined for PS only. SA2 is requested to confirm this. If asymmetric services are only defined for PS, this has no impact on specifications under CN3's responsibility.

DISCUSSION: In the meantime it was possible to get some background information by SA2 delegates. It was clarified that the requested features are necessary mainly for speech services. SA2 has provided its CR based on a received LS from RAN3 requesting this following a CR presented by Motorola to RAN3.

In light if this it was agreed to withdraw the LS as it was considered not to be required. Instead Johanna from Motorola will provide the original Motorola CR to the CN3 e-mail exploder and delegates will check if any work is required by CN3 in this area.



[ACTION N3_15_02] - Johanna Wild to 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.

RESULT: The LS was **WITHDRAWN**.

N3-010009: LS IN from SA4 on Progress on definition of codecs and protocols for a transparent packet-switched multimedia streaming service.

CONTENT: In the LS, SA4 provide information regarding the status of the work item "Packet-switched Streaming Service (PSS); Protocols and Codecs."

An important working assumption in SA4 has been to minimise the number of different codecs (for each media type) that the terminal needs to support for different services. Hence, the media codec choices for PSS will be made taking into consideration the codec choices already made for defined services (speech, circuit-switched multimedia telephony 3G-324M) as well as the on-going work on packet-switched conversational service.

DISCUSSION: **Paul of NORTEL:** This relates to BICC where we propose to have RTP over UDP using payload format for speech in Circuit Switched. **This will be further discussed in the CN3_CN4 joint session.**

[EDITORS NOTE: Following the rejection of the NORTEL proposal in the joint CN3_CN4 session, it was agreed that no answer was required back to SA4].

RESULT: The document was **NOTED**

N3-010020: LS IN from SA Plenary on IP multimedia sessions.

CONTENT: In this LS, TSG_SA indicate the principles that have been agreed by TSG-SA as guidance to SA WG1 and SA WG2 for their work in defining the service requirements and architecture for the control of IP multimedia services. CN3 are copied on this LS for their information.

DISCUSSION: There have been discussions on whether Voice should only be handled in the CS domain, or also by the IMS domain. SA have agreed that the IMS supports voice capabilities and it shall be possible to have basic voice calls between IMS users and users in CS domain/PSTN-style networks.

In response to question from Achim, Norbert clarified that the IMS interworking will be a requirement for Rel-5.

Because the LS only mentions voice services, it is unclear if interworking is also required between the **IMS and the CS domain/PSTN-style networks for multimedia services**

This may have some impact on the CN3 WID "Interworking between the IMS and CS", but as the LS only talks about speech, not data - these future changes are not known.

RESULT: The document was **NOTED**

6 Administrative issues

6.1 Project Co-ordination.

N3-010044: 3GPP Project Plan. Presented by David, MCC.

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

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_15_03] - David will feed back the changes to the 3GPP project plan to Alain Sultan

RESULT: The document was **REVIEWED**.

N3-010047: **Status of CN3 Specifications following TGS_CN#10.** Presented by David, MCC.

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

DISCUSSION: It was agreed that there is a requirement to create only the following additional specifications for GSM Rel-4:

3GPP TS 48.020

3GPP TS 43.045

Meaning GSM Rel-4 specifications for CN3 will include only;

3GPP TS 43.010 (exists already)

3GPP TS 44.021 (exists already)

3GPP TS 43.045 (does not exist yet)

3GPP TS 48.020 (does not exist yet)

NOTE: In section 29.007 v4.1.0 there is a reference to 49.002, ref [30] should be 09.02 v3.x.y. Incorrect and needs to be updated.

It was agreed that there is no need for 23.054 in Rel-4 and beyond.



[ACTION N3_15_04] - David will feed back the changes to the CN3 specification list to John Meredith.

RESULT: The document was **NOTED**.

6.2 Terms of Reference / Future Work

Future Role of TSG_CN3

At this point there was some discussion on the future work on CN3 and the overall structure of TSG-CN as a whole.

Some topic discussed:-

Uneven work distribution within CN working groups.

Suggested that CN3 can be responsible for GTP as this relates closely to QoS.

Concerns that companies are not sending their IP experts to CN3 meetings.

CN3 is allocated QoS stage 3, but stage 2 is not yet complete by SA2.

SA2 are possibly handling too much of the technical detail that should be done in CN3.

QoS Stage 2 is planned for completion in March 2001.

If CN3 disappears who will do the work? Cause overload in other CN WGs.

Stephen Hayes CN Chairman was present for this discussion and agreed to speak with the SA2 chairman to ensure a representative of the SA2_QoS group would present information to CN3 in the CN3#16 meeting.

Working Methods of CN Working Groups

It was agreed to continue with the format of joint sessions between CN4, CN1 and CN3 in order to progress work on specific areas (such as BICC, SIP).

CN WGs Groups should be divided by TOPIC as opposed to the present interface split.

Conclusion

CN3 will continue with the existing interworking work and investigate the impact of QoS. BICC and SIP issues will be discussed in joint sessions with CN1 and CN4 as required.

6.3 Next meetings, allocation of hosts

Election of CN3 Officials

It was announced that as the term of office of the existing CN3 Chair and vice-chair expires in March, CN3 will hold elections for these positions in the CN3 full #16 meeting in Sophia Antipolis.

David Boswarthick will send out an e-mail to the CN3 email exploder announcing this.

The need for a second CN3 vice Chair will be examined once the future role and work load on CN3 is better known.



[ACTION N3_15_05] - Send out an e-mail to the CN3 email exploder announcing the CN3 elections

Meeting	Date	Location, Host	Comments
TSG-CN3#16	26 th Feb–2 nd Mar 2001	Sophia Antipolis, France - ETSI	Co-located CN1,CN2,CN3,CN4 CN3 Elections
TSG-CN#11	14 th –16 th Mar 2001	Palm Springs, USA - NA Friends	
TSG-CN3#17	14 th – 18 th May 2001	(poss Caribbean), USA, - NA Friends,	Co-located CN1,CN2,CN3,CN4
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	Possibly 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 ! Very close to CN plenary !
TSG-CN#14	12 th – 14 th Dec 2001	Japan, TTC	

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

N3-010010: Discussion document on clarifications on A-TRAU'. Presented by Achim of Alcatel.

CONTENT: The document presents two problems relating to A-TRAU', and possible solutions.

DISCUSSION: Erik, related to problem 1: Does the first bit of the A-TRAU' always comes on the 1? Achim did not have the information and will check this for the next meeting.

Erik, related to problem 2: How does the MSC of MGW know what the radio data rate is?

Achim you must take the WAIUR defined at the beginning. This is done with the C1-C4 bits in A-TRAU'. However he will also check this for the next meeting.



[ACTION N3_15_06] - Achim will check the details relating to the A-TRAU' document

RESULT: The document was **NOTED**.

? RELATED DOCUMENT ?

N3-010064: CR to 23.910 v330 " A-TRAU' correction ". Presented by Achim of Alcatel.

CONTENT: Contains a (CAT F) CR that clarifies the ratio of RLP to RLP 'fill' frames in 23.910 for R99.

DISCUSSION: Text was added for clarification "fill frames are also send in order to adapt the user rate to the Air Interface User rate.

RESULT: The document was **REVISED to 0067**.

? REVISED ?

N3-010067: CR to 23.910 v330 " A-TRAU' correction ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that clarifies the ratio of RLP to RLP 'fill' frames in 23.910 for R99.

RESULT: The document was **AGREED**.

? CORRESPONDING CR TO LATER RELEASE ?

N3-010068: CR to 23.910 v410 " A-TRAU' correction ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT A) CR to clarify the ratio of RLP to RLP 'fill' frames in 23.910 for Rel-4.

RESULT: The document was **AGREED**

N3-010069: CR to 29.007 v370 " A-TRAU' correction ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that corrects the ratio of RLP to RLP 'fill' frames in 29.007 for R99.

DISCUSSION: Table header info is missing - this will be inserted in revised version.

RESULT: The document was **REVISED to 0082**

? REVISED ?

N3-010082: Rev CR to 29.007 v370 " A-TRAU' correction ". Presented by Achim of Alcatel.

RESULT: The document was **AGREED**

? CORRESPONDING CR TO LATER RELEASE ?

N3-010070: CR to 29.007 v410 " A-TRAU' correction ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT A) CR that corrects the ratio of RLP to RLP 'fill' frames in 29.007 for Rel-4.

DISCUSSION: Table header info is missing - this will be inserted in revised version.

RESULT: The document was **REVISED to 0083**

? REVISED?

N3-010083: Rev CR to 29.007 v410 " A-TRAU' correction ". Presented by Achim of Alcatel.

RESULT: The document was **AGREED**

7.2 Multimedia

No Input to this agenda item

7.3 GPRS

N3-010057: CR to 29.061 v340 " Change of IP address in renewal ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that deactivates the PDP context in 29.061 for R99.

DISCUSSION: **Achim:** summarised the history of this DHCP issue. A number of meetings ago CN3 contacted T2 requesting information on this issue. Since then Achim has received a mail from Kevin Holley stating T2 does not have the expertise to handle this. CN3 should continue work on this issue.

Juha was concerned that there may be changes to RFC 2131.

Achim noted that the contribution was in fact incorrect, as it contains the original NOKIA proposal (error in contents of file).

RESULT: The document was **WITHDRAWN**.

N3-010058: CR to 27.060 v340 " Implications of DHCP lease renewal process ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that deactivates the PDP context in 29.060 for R99.

DISCUSSION: **Achim:** clarified that there are two types of DHCP process.; Transparent end-end and GGSN relay. This CR relates only to the Transparent end to end case.

Paul: Suggested re-using the GGSN initiated PDP context modification DHCP relay. However Achim explained that would involve the GGSN monitoring the status throughout the duration of the call, creating a large overhead in resources.

Juha: Although Nokia has some concerns with this issue, it does not oppose the solution.

Noted that the CR is made using wrong cover sheet.

RESULT: The document was **REVISED to 0072**.

? REVISED?

N3-010072: Rev CR to 27.060 v340 " Implications of DHCP lease renewal process ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that deactivates the PDP context in 29.060 for R99.

RESULT: The document was **AGREED**.

N3-010063: CR to 29.061 v340 " Implications of DHCP lease renewal process ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT C) CR that deactivates the PDP context for DHCP lease expiry in 29.061 for R99.

DISCUSSION: Change wording of "sloppy" to "poor"

Cannot get a functional modification approved for Rel-4. Can only be an essential correction - which is the case for this change. Therefore CAT C changed to CAT F.

RESULT: The document was **REVISED to 0071**.

? REVISED?

N3-010071: Rev. CR to 29.061 v340 " Implications of DHCP lease renewal process ". Presented by Achim of Alcatel.

CONTENT: Contains (CAT F) CR that deactivates the PDP context for DHCP lease expiry in 29.061 for R99.

RESULT: The document was **AGREED**.

7.4 Technical Enhancements & Improvements (TEI)

N3-010025: CR to 27.001 v420 " Corrections, clarifications and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT F) CR that provides corrections and also deletes X.25 throughout 27.001 for Rel-4.

DISCUSSION: Modification to note 3) to replace the text "these parameter" with "IP and UR" throughout the document

Erik commented to the placement of note 2) in the table B.1.2.2. This was modified in the revised CR.

Norbert: why replace the user rate 9.6, by "not applicable". Erik replied that FTM is fairly new and this avoids having to implement a fallback mechanism. Intermediate rate towards the fixed network is also NA.

RESULT: The document was **REVISED to 0073**.

? REVISED?

N3-010073: Rev. CR to 27.001 v420 " Removal of blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT F) CR that provides corrections throughout 27.001 for Rel-4.

DISCUSSION: Care will be required when implementing the changes to the figures. Rune may be asked to check the specification once David has implemented the CR.

CONTENT: Error in copying parts of the spec - this is corrected in revised version.

Also ref [29] should not be deleted as it is shown void.

ALSO This must only be a corresponding CR only without removal of X.25. This is done in a separate CR to the same specification **NJ-010086**.

RESULT: The document was **REVISED to 0084**.

? REVISED?

N3-010084: Rev. CR to 27.001 v420 " Removal of blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENTS: Contains (CAT A) CR that adds WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM, as well of correction of various errors in 27.001 for Rel-4.

DISCUSSION: David questioned whether the figures will all be replaced by EXCEL. Rune said this will be done with time. Norbert warned that there will be a time when we can no longer do pure editorials to Rel-4. Rune said he would try to do these changes for the next CN3 meeting.

A question relating to octet re-arrangement has been raised on the CN3 e-mail exploder. However it is preferable to keep the present order until this has been studied further.

No requirement to keep the Radio and protocol part.

RESULT: The document was **AGREED - [NOTE - This CR was REVISED to N3-010109 at the following CN3#16 meeting, and N3-010084 was therefore not sent to CN#11 plenary for approval.**

N3-010026: CR to 27.001 v370 " Removal of the blocking of higher modem speeds and editorial changes ".

CONTENT: Contains (CAT F) CR that provides corrections, also deletes X.25 in 27.001 for R99.

DISCUSSION: Not presented as same comments as to 0025 apply.

RESULT: The document was **REVISED to 0075**.

? **REVISED?**

N3-010075: Rev. CR to 27.001 v370" Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

CONTENT: Contains (CAT F) CR that provides corrections and also deletes X.25 throughout 27.001 for R99.

DISCUSSION: Error in copying parts of the spec - this is corrected in revised version.

RESULT: The document was **REVISED to 0085**.

? **REVISED?**

N3-010085: Rev. CR to 27.001 v370" Removal of the blocking of higher modem speeds and editorial changes ". Presented by Rune of Ericsson.

RESULT: The document was **AGREED - [NOTE - This CR was REVISED to N3-010108 at the following CN3#16 meeting, and N3-010085 was therefore not sent to CN#11 plenary for approval.**

8 Release 4 and Release 5:

8.1 CS Multimedia Swap and Fallback [CSM-SWAP]

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

N3-010049: (NP-000051) WID for CS Multimedia Swap and Fallback ". Presented by David, MCC.

CONTENT: Contains the latest approved WID for CS Multimedia Swap and Fallback, and is presented to the meeting for information and eventual updates.

DISCUSSION: Juha mentioned that this WID is out of date and the fact that it will incorporate SMWOP means it will change considerably.

Juha does not wish to continue as rapporteur.

Agreed to delete this WID - this is possible as it is an internal CN3 WI and there have been no inputs for at least 4 meetings. This will be proposed to the CN Plenary #11.



[ACTION N3_15_07] - Masahiko will create a new WID for Service Modification WITH Pre-notification and present it to CN3#16 - this will be based on N3-010049

RESULT: The document was **NOTED**.

NOTE: All other documents on CS Multimedia Swap and Fallback were withdrawn, following the decision of the joint CN3_CN4 meeting to move this WI to Rel-5.

8.2 RT Facsimile [FAX-RT]

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

N3-010022: CR to 43.010 v400 " Removal of Fax NT for GSM ". Presented by Norbert of Siemens.

CONTENT: Contains (CAT C) CR that removes Fax NT throughout the figures in 43.010 for Rel-4.

DISCUSSION: Replace R00 by Rel-4 terminology.

RESULT: The document was **REVISED to 0076.**

? **REVISED?**

N3-010076: **Rev CR to 43.010 v400 " Removal of Fax NT for GSM "**. Presented by Norbert of Siemens.

RESULT: The document was **AGREED**

N3-010023: **CR to 27.003 v400 " Deletion of NT Fax in GSM from Release 4 "**. Presented by Rune of Ericsson.

CONTENT: Contains **(CAT C)** CR that removes Fax NT throughout **27.003** for **Rel-4**.

DISCUSSION: Requirement to see some additional text stating Fax NT is removed from GSM

RESULT: The document was **REVISED to 0077.**

? **REVISED?**

N3-010077: **Rev. CR to 27.003 v400 " Deletion of NT Fax in GSM from Release 4 "**. Presented by Rune of Ericsson.

CONTENT: Contains **(CAT C)** CR that deletes L2RBOP and provides editorial changes to **27.003** for **Rel-4**.

RESULT: The document was **AGREED.**

N3-010024: **CR to 27.001 v420 " Deletion of NT Fax in GSM from Release 4 "**. Presented by Rune of Ericsson.

CONTENT: Contents of the zip file do not correspond with the title.

DISCUSSION: Possible error in file.

RESULT: The document was **WITHDRAWN.**

N3-010078: **CR to 27.001 v420 " Deletion of NT Fax in GSM from Release 4 "**. Presented by Rune of Ericsson.

CONTENT: Contains **(CATC)** CR that removes Fax NT throughout **27.001** for **Rel-4**.

DISCUSSION: Combine with the removal of NT Fax and the removal of X.25 (from N3-010073) into one merged CR.

RESULT: The document was **MERGE INTO 0086.**

N3-010086: **Rev. CR to 27.001 v420 " Deletion of NT Fax in GSM from Release 4"**. Presented by Rune of Ericsson.

CONTENT: Contains **(CAT C)** CR that removes NT Fax and X.25 from **27.001** for **Rel-4**.

DISCUSSION: B.1.10.2 repeated in CR. Must merged, and duplication removed.
addition of text "in GSM" to the scope.

RESULT: The document was **REVISED to 0089.**

? **REVISED?**

N3-010089: **Rev. CR to 27.001 v420 " Deletion of NT Fax in GSM from Release 4"**.

RESULT: The document was **AGREED - [NOTE - This CR was REVISED to N3-010110 at the following CN3#16 meeting, and N3-010089 was therefore not sent to CN#11 plenary for approval.**

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

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

- N3-010050:** (NP-000381) WID for Service Modification without pre-notification. Presented by David, MCC.
- CONTENT:** Contains the latest approved WID for SMWOP. This is provided to the meeting for information and eventual updates.
- DISCUSSION:** CN3 are awaiting confirmation from SA1 that CN3 can delete this work item following the removal of the service requirements.
- RESULT:** The document was **NOTED**.


8.4 Global Text telephony [GTT-IW]

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

- N3-010051:** (SP-000290) WID for Global Text telephony. Presented by David, MCC.
- CONTENT:** Contains the latest approved WID for Global Text telephony. This is provided to the meeting for information and eventual updates.
- DISCUSSION:** CN3 are still awaiting completion of stage 2 specifications from SA2. The stage 1 for GTT is available and should be made available to next CN3 meeting. It is expected that CN3 does not need to provide specification for the interworking functions towards fixed networks.
- RESULT:** The document was **NOTED**.

8.5 Interworking between IM Subsystems and CS [IMS-CCR-IWCS] for Rel-5.

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

- N3-010052:** (NP-000465) WID for Interworking between IM Subsystems and CS. Presented by David, MCC.
- CONTENT:** Contains the latest approved WID for Interworking between IM Subsystems and CS. This is provided to the meeting for information and eventual updates.
- DISCUSSION:** Sunil of BT was available to update this document in the CN3 meeting.
- Modifications:**
- No need for new TR "Technical Requirements for IM to CS Interworking"
 - Change of rapporteur to Nigel Holland of BT.
 - Change R2000 terminology and minor editorials.
 - Requirement to separated voice and multimedia. This requires some time and will be done by the rapporteur for presentation to CN3#16.
-  **[ACTION N3_15_08] - BT will update the WID for Interworking between IM Subsystems and CS and present it at CN3#16 meeting.**
- RESULT:** The document was **POSTPONED to CN3#16**.

- N3-010066:** LS to SA requesting clarification on interworking between IM domain and CS networks. Presented by Juha of Nokia.

CONTENT: TSG-CN WG3 asks TSG-SA to clarify the coverage of the IMS and CS domain interworking concerning especially multimedia calls.

DISCUSSION: It was agreed to add text from the SA Plenary where it is mentioned that SA state the requirement is for voice ONLY.

Agreed to re-phrase the last paragraph.

RESULT: The document was **REVISED TO 0079**.

? **REVISED?**

N3-010079: **LS to SA requesting clarification on interworking between IM domain and CS networks.** Presented by Juha of Nokia.

CONTENT: TSG-CN WG3 asks TSG-SA to clarify the coverage of the IMS and CS domain interworking concerning especially multimedia calls.

DISCUSSION: Addition to the LS from the SA Plenary report where SA state that the requirement is for voice ONLY.

Agreed to re-phrase the last paragraph.

Following the meeting it was decided to modify the LS to reflect the status of the joint meeting. The document was distributed on the e-mail exploder and put on approval until Tuesday 23rd Jan 12:00. Some minor changes were requested.

RESULT: The document was **REVISED to 0088**.

? **REVISED?**

N3-010088: **Rev. LS to SA requesting clarification on interworking between IM domain and CS networks.** Presented by Juha of Nokia.

The document was put on e-mail approval until Tuesday 23rd Jan 12:00

RESULT: The document was **APPROVED by e-mail**

8.6 Interworking between IM Subsystems with IP [IMS-CCR-IWIP] for Rel-5.

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

N3-010074: **WID for Interworking between IM Subsystems with IP.** Presented by Sunil of BT.

CONTENT: Contains the latest approved WID for IM Subsystems with IP.

DISCUSSION: Minor editorials, Additional supporting companies Nortel Networks and Lucent. Rapporteur should be Nigel Holland of BT.

RESULT: The document was **REVISED to 0087**.

? **REVISED?**

N3-010087: **Rev WID for Interworking between IM Subsystems with IP.**

RESULT: The document was **AGREED**.

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

~~CC~~ [CN3 consider their work to this Work Item as 50% Complete](#)

~~CC~~ [All of the documents for this agenda item were discussed in the joint CN3 CN4 meeting see section 9](#)

8.8 IWF at the CN Border [TRFO-STLC]

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

- N3-010055:** WID for IWF at the CN Border. Presented by David, MCC.
- CONTENT:** Contains the latest WID for IWF at the CN Border approved in CN3.
- DISCUSSION:** CN3 has no intention to pursue this WI further due to the lack of rapporteur and contributions.
- RESULT:** The document was **NOTED**.

8.9 QoS for IMS

8.9.1 Mapping of end to end QoS parameters on each interface [QoSPS-MAPEND]

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

No contributions to this agenda item.

NOTE it is expected that a delegate from SA2 will make a presentation to the CN3#16 meeting.

Stephen Hayes will talk with the SA2 chairman and request this before next weeks SA2 meeting.

8.9.2 Interactions between external mechanisms and UMTS mechanisms for QoS negotiation and reservation [-]

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

No contributions to this agenda item.

8.9.3 Evolution of maximum SDU size [QoSPS-MAXSDU]

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

No contributions to this agenda item.

8.10 Other Work Items

- N3-010065:** CR to 43.010 v400 " Additional changes for the removal of BS30NT and packet access ". Presented by Norbert of Siemens.
- CONTENT:** Contains (CAT C) CR that provides additional changes for the removal of BS30NT and packet access in 43.010 for Rel-4.
- DISCUSSION:** Title of 6.4 is misleading and should include the exclusion of EDGE.
- RESULT:** The document was **REVISED to 0080**.
- ? REVISED?**
- N3-010080:** Rev CR to 43.010 v400 " Additional changes for the removal of BS30NT and packet access ". Presented by Norbert of Siemens.
- RESULT:** The document was **AGREED**.
- N3-010046:** CR to 43.010 v400 " Removal of the S reference point in the MS ". Presented by Norbert of Siemens.
- CONTENT:** Contains (CAT C) CR that remover the S reference point throughout 43.010 for Rel-4.
- DISCUSSION:** Model 6 should be singular and not plural.

RESULT: The document was **REVISED to 0081.**

? REVISED?

N3-010081: Rev. CR to 43.010 v400 " Removal of the S reference point in the MS ".

RESULT: The document was **AGREED.**

9 Joint CN3_CN1 Meeting

Documents for CN1 – CN3 joint meeting on RTCP responsibility and interworking issues Tuesday 16.1.2001						
Agenda item	Agenda item title	Tdoc NJ-01	Title	Spec.	Source	Result
1.	Agenda	0081	Agenda		CN1 Chairman	<p>?? Who is responsible for RTCP protocol specs?</p> <p>?? Relationship of 24.228 and CN3 specifications?</p> <p>?? Multimedia interworking issues?</p> <p>PRESENTED BY: Hannu, Session Chair CONTENT: Contains the Meeting Agenda, and Allocation of tdocs to Agenda Items COMMENTS: No Comments were made to this document. STATUS: The AGENDA was APPROVED</p>
2.	RTCP					It was decided it was too early to discuss this topic.
3.	24.228 relationship with CN3 specs				[OPEN DISCUSSION]	<p>Keith, Siemens: DO CN3 want to contribute to TS 24.228 both on Interworking and the RTP protocol or keep these flow diagrams in separate specifications?</p> <p>Hannu: It would be beneficial to keep 24.228 as the single place for ALL of these related flow diagrams</p> <p>BAN, MCC: This joint input to 24.228 would cause problems and possible delay in the approval of contributions to the specifications Do CN3 CRs need to seen by CN1 before presentation to the Plenary?.</p> <p>Keith; there is an existing relationship with S2 for 24.228 - it may be possible to have joint sessions with between SA2, CN1 and CN3 delegates on 24.228 issues.</p> <p>Stephen H; In the long term there may not be any interworking - so it does not make much sense in having this described in separate specifications.</p> <p>Nigel, Lucent; possibly examine the overall structure of CN and its working groups and possibly bring interworking into CN1.</p> <p>AGREED to have a single signalling flow specification TS 24.228 to include interworking. TSG_CN1 will have the ownership of 24.228.</p> <p>The signalling flows will be based on 23.228</p> <p>The procedure for development of this specification will be to fix a time for 24.228 discussions in CN1 and CN3 delegates can attend as required. It is noted that CN WG meetings are co-located until Nov 2001.</p>
4.	Multimedia interworking	0082	Interworking of multimedia session control between CS and IM domain		Nokia	<p>PRESENTED BY: Juha Rasnen of NOKIA</p> <p>CONTENT: Purpose of the document is to describe the background of CS and IP multimedia and to list requirements and possible solutions for CS & IP multimedia interworking.</p> <p>COMMENTS:</p> <p>Stephen Hayes: This has been discussed in SA Plenary Quote report "Agreed IMS interworking supports only voice capabilities". SA is does not require IMS interworking for services other than voice and very limited supplementary services.</p> <p>Juha: The above LS was discussed in CN3, and it was uncertain if this SA statement has an effect on the CN3 WID "Interworking between IMS and CS". CN3's understanding is that the requirements are for more than simple ISDN and PSTN interworking.</p> <p>Norbert: SA has decided that interworking between IMS and PSTN is required for speech. However, in the LS from SA there are no comments on the CN3 work item for interworking between IMS and DATA/Multimedia.</p> <p>Stephen: Proposes to send an LS to SA1 and SA cc SA2 and CN, CN1 requesting clarification on interworking to data/multimedia.</p> <p>ACTION - CN3 will produce this LS to SA, SA1 cc SA2, CN1, CN.</p> <p>QUESTIONS TO TECHNICAL CONTENT: In Reply to a question from Erik (Ericsson), Juha clarified that it is meant to include ISDN/PSTN interworking to the mobile network - not only mobile to mobile interworking.</p>

Documents for CN1 – CN3 joint meeting on RTCP responsibility and interworking issues
 Tuesday 16.1.2001

?? Who is responsible for RTCP protocol specs?
 ?? Relationship of 24.228 and CN3 specifications?
 ?? Multimedia interworking issues?

Agenda item	Agenda item title	Tdoc NJ-01	Title	Spec.	Source	Result
		0083	Technical alternatives for CS-IM interworking		Nokia	<p>Questions from KEITH: Why is proposed H245 instead of RTP? Juha This is used because it is the same in-band signalling currently used in the CS multimedia call</p> <p>OTHER QUESTIONS: Relationship between CN3 and CN1 work in this area?? - Un answered. Signalling issues related to CN1 work? - Un answered. What is impact on 23.218? - Un answered.</p> <p>ROBERT, SIEMENS :Is the proposed Out band tunnelling supported by legacy H324 terminals Juha: Not supported by legacy terminals, thus the solution is intended to be as transparent as possible</p> <p>Hannu: Can existing QoS mechanisms fulfil the requirements for these procedures? [Continued under NJ-010082]</p> <p>STATUS: IT WAS AGREED THAT CN3 WILL CONTINUE WITH THE WID IMS TO CS INTERWORKING The document was AGREED PRESENTED BY: Timo of NOKIA CONTENT: The purpose of this paper is to initiate stage 2 (and 3) in the 3GPP work on Work Item 'Interworking between IM CN subsystem and circuit switched networks' by presenting some technical solution alternatives for CS-IM interworking. Interested parties are encouraged to study, and comment, the presented alternatives. The document also presents some alternatives for the specification of CS-IM multimedia interworking to be used as a base for upcoming standardization activities.</p> <p>COMMENTS: MILO: why a translational model as opposed to an end-end transparent overlay model? Why use H.245 to negotiate capabilities when we can simply use SIP? JUHA: If the other part is a CS terminal (mobile/fixed), SIP cannot be used end-end, and translation is required. Also there are several alternative solutions that have to be studied for the different scenarios.</p> <p>SUNIL, BT: Concerning interworking to R99 networks, BICC for Rel-4 allows out of band signalling that may simplify the interworking to CS terminals. TIMMO: No alternatives will be ignored, and all scenarios must be examined individually.</p> <p>KEITH, SIEMENS: This document suggests billing starts at a certain point [ACK, 200_OK], however there has been no decision of how billing will be done in IMS.</p> <p>Erik, Ericsson: Where will the tunnelling procedures be standardised (IETF or 3GPP)? TIMMO: Different solutions have different impacts on standardisation, Tunnelling is ongoing/complete within IETF.LLC solution would impact both 3GPP specs and ITU-T.</p> <p>Paul, Nortel: H245 is for R99 only. Future multimedia developments (Rel-4 and beyond) will be based on IP.</p> <p>Juha : related to the justification for the CN3 work item. Both CS and PS multimedia will be in use for some time, hence interworking is required. The question is what is this period of TIME, and depending on this do we need the CN3</p> <p>AGREED to add this question to the LS to be generated by CN3 KEITH: requires at least changes to 23.228 (SA2), and therefore SA2 could provide clarification on the required changes. CN1 part of work will include at least session decr. tunnelling concept on BC negotiation CN3 part will include interworking between the two element</p> <p>STATUS: NOTED PRESENTED BY: Sunil of BT</p> <p>CONTENT: This document aims to highlight two aspects</p>
		0084	Aspects Regarding Control Plane and User		BT	

Documents for CN1 – CN3 joint meeting on RTP responsibility and interworking issues
 Tuesday 16.1.2001

?? Who is responsible for RTP protocol specs?
 ?? Relationship of 24.228 and CN3 specifications?
 ?? Multimedia interworking issues?

Agenda item	Agenda item title	Tdoc NJ-01	Title	Spec.	Source	Result
			Plane Interworking between the IMSS and External IP networks			<p>related to "Interworking between the IM Subsystem and external IP networks", namely: -</p> <ul style="list-style-type: none"> - SIP to H.323 Interworking - AMR Transcoding <p>Work is required within CN3 to address this issue of Control Plane Interworking between SIP and H.323 protocols. Work is required within CN3 to address this issue of User Plane Interworking between AMR and other Codec Types.</p> <p>COMMENTS: NIGEL, Lucent: How does this relate to the existing WI, and does it propose a split? SUNIL; the existing WID already incorporates these aspects and there is no need for modification of split. Comment to section 2.2, an Interface is required that controls the interworking function and this should be studied in CN3. Work Split; Mainly CN3 oriented work, with minor impact on CN1, hence work should be done in CN3. Keith, Siemens; Interworking to an external I network can require interworking to H.323 and or SIP AMR CODEC Norbert; this WID is still under discussion within CN3. COMMENT THE WID SHOULD CONTAIN SIP INTERWORKING</p> <p>STATUS: NOTED WITHDRAWN</p>
		0087			MOTOROLA	
5.	A.O.B.	0085 (N1-010091)	Progress on definition of codecs and protocols for a transparent packet-switched multimedia streaming service		S4 Codec Working Group	<p>PRESENTED BY: Hannu, Session Chair</p> <p>CONTENT: this document provides some information to the Rel-4 "basic streaming", but no information on the Rel-5 LS Forwarded to CN1-CN3 joint meeting 16.1.2001 N1 is informed (CC) on the Progress on PS multimedia streaming service (definition of codecs and protocols) COMMENTS: No Comments were made to this document.</p> <p>STATUS: NOTED</p>
		0086 (N1-010037)	Re: LS for "IM Subsystem Address Storage on USIM"		T2	<p>PRESENTED BY: Hannu, Session Chair</p> <p>CONTENT: In this Ls T2 agree with SA2 decision explained in their LS in N1-010021. In this LS T2 continue further on the details of the link between the TE and MT. Linked with N1-010021</p> <p>COMMENTS: No Comments were made to this document.</p> <p>STATUS: NOTED</p>

10 Joint CN3_CN4 Meeting

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
1	Opening of the meeting and approval of the agenda	0001	Draft Meeting Agenda for CN3_CN1_01 Joint Meeting	Session chair	Agreed	PRESENTED BY: Yun Chao, Session Chair DISCUSSION: No Comments were made to this document.
2	Allocation of documents to agenda items	0044	Allocation of documents to agenda items for CN3_CN1_01 Joint Meeting	Session chair	REVISED TO 0061	PRESENTED BY: Yun Chao, Session Chair DISCUSSION: Several documents were withdrawn and revised at the beginning of the meeting, and these changes are shown in the revised NJ-010061
		0061	REV. Allocation of documents to agenda items for CN3_CN1_01 Joint Meeting	Session chair	Agreed	PRESENTED BY: Yun Chao, Session Chair
3	Input liaison statements: allocation to agenda items as appropriate	0004	LS on Working Assumptions made by CN3 for the new TS 29.415 "Core Network Nb User Plane protocols	R3	NOTED	Erik, Ericsson: this LS can be clarified by examining the contributions to 25.415. In summary; CN3_CN4 would like to use the NAME Nb UP and it should be identical to IU UP. However there are some minor differences between the two and these need to be incorporated into the RAN3 specifications. This will be done via a LS to RAN3 [NJ-010093]. If this does not resolve the issue, a joint workshop will be organised between CN4_RAN3. STATUS: NOTED
		0090	LS on Clarification of Privacy Exception List	SA1 LCS	WITHDRAWN	Not intended for this meeting
		0111	Connecting GERAN to Rel4 CS CN node via the A interface	GERAN	NOTED	Confirm the use of the A interface for Rel-4. However GERAN are not working on the separation of transport and control over this A interface
		0093	Answer LS on Working Assumptions made by N3 for the new TS 29.415 "Core Network Nb User Plane protocols	CN3_CN4 joint meeting	REVISED TO 0100	Editorial modifications and clarifications to the text. Add attachments
		0100	Answer LS on Working Assumptions made by N3 for the new TS 29.415 "Core Network Nb User Plane protocols	CN3_CN4 joint meeting	APPROVED	
4	Work item management	0046	WID for Bearer Independent Circuit-switched Core Network	MCC	NOTED	The rapporteur will provide an update of the WID for the next joint CN3_CN4 meeting
5	Bearer Independent CS Core Network					
5.1	TS 23.205 - Stage 2	0002	Intro of Voice Processing for 23.205	TELLABS	REVISED to-0062	PRESENTED BY: Brian of Tellabs DISCUSSION: Description of the activate package to be used in stage is covered in NJ-010067 After some discussion in an ad hoc session, this document was revised to incorporate issues on the PRESENT TDM package Additional sentence to 15.2.8 " in the context of REL- 4 the H248 package associated with this function shall be the TDM circuit package as described in H248 ANNEX E.13 . i.e., echo cancelling and gain control
		0062	Intro of Voice Processing for 23.205	TELLABS	APPROVED	

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0003	Modification procedure between speech and multimedia	NTT DoCoMo, NEC	Revised TO 0055	REVISED Before presentation to the meeting
		0055	Modification procedure between speech and multimedia	NTT DoCoMo, NEC	DISCUSSED	<p>PRESENTED BY: Masahiko of NEC</p> <p>DISCUSSION: Phil; Questions whether multimedia CODECS and normal CS speech CODECS are put in the same codec lists from the originating end, and the terminating end selects the 1st CODEC in the list that it can use. Hence it can use either a multimedia of normal CS speech CODEC can be selected.</p> <p>Daisuke of NTT SWAP and FALLBACK for Multimedia is an existing WID within CN3. Norbert it would be useful to discuss this with CN4 to answer a number of questions;</p> <p>CS Multimedia is planned for completion by Rel-4. Daisuke stated that the contributing companies expect this work to be complete by March.</p> <p>Elena of Ericsson; Before CN3 and CN4 can begin work on this we require clarification on the multimedia CODEC from SA4.</p> <p>Daisuke; 3G H.324M describes 64kbit/s and 32kbit/s (in addition to ISDN). The use of 32kbit/s Multimedia would have implications on the ITU as ISDN does not presently support the 32kbit/s data rate. Hence this could not work outside the mobile network.</p> <p>Phil; There may be a better way of doing this, but it requires more study. This is unreasonable for completion in Rel-4.</p> <p>Summary; WORKING ASSUMPTION - BICC CS2 does not presently support Multimedia CODECS, and hence this proposal is not applicable for REL -4.</p> <p>This solution should be part of BICC CS3 which is planned for completion next year. Hence this work item becomes part of Rel-5. Work will continue in CN3_CN4 joint sessions but the open issues need to be resolved by the contributing parties .</p>
		0005	CR on 23.205	NTT DoCoMo, NEC	Revised TO 0056	REVISED Before presentation to the meeting
		0056	CR on 23.205	NTT DoCoMo, NEC	DISCUSSED	<p>PRESENTED BY: Masahiko of NEC</p> <p>DISCUSSION: See discussion in 0055.</p> <p>SUMMARY; Working Assumption BICC CS2 does not support Multimedia CODECS.</p> <p>CN3 reported a number of questions to be answered.</p> <p>CN3 reported that future work on this shall be part of joint CN3_CN4 effort.</p> <p>Conclusion: SWAP and FALLBACK for CS Multimedia is deferred to Rel-5.</p>

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0006	Proposed improvements in Call Establishment (section 6)	Ericsson L.M.	REVISED TO 0070	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION</p> <p>Question from Prim; Is the MSC required to get info from the MGW for it to establishment of the RAB?</p> <p>Elena; Network side the MSC does not know what kind of RABs can be established. However on the Radio side. it normally does know.</p> <p>There will be a one - one relationship between the MGW and MSC.</p> <p>Kevin; hi-lighted the Danger of continuing with call set-up before the RAB set-up is complete. We should ensure that both the RAB and call set-up are complete before the user is indicated of service. Requests that CONTINUITY MESSAGES are mandated if the RAB is not assigned before sending originating address. Kevin proposed that the change to the section on Initial addressing are removed.</p>
		0070	Proposed improvements in Call Establishment (section 6)	Ericsson L.M.	APPROVED	Approved without presentation
		0007	Proposed improvements to cover error handling in Call Establishment (section 6)	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0008	Proposed improvements to cover GSM in Call Establishment (section 6)	Ericsson L.M.	REVISED to 0071	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION: Prim Traffic Channel Assignment - last change needs some grammatical changes. text was suggested.</p> <p>Erik; replace for GSM with for UTRAN GERAN in order to agree with GSM / UMTS terminology</p> <p>Replace the ref to RAB by access bearer so it is not so UMTS specific.</p> <p>PLMN BC is changed to PLMN Bearer Capability.</p> <p>Achim; the assignment for the GSM case is not correct in figures. missing assignment complete</p>
		00071	Rev. Proposed improvements to cover GSM in Call Establishment (section 6)	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0009	Improvement to 3GPP TS 23.205 on Framing Protocol Initialisation	Ericsson L.M.	REVISED TO 0063	REVISED Before presentation to the meeting
		0063	Improvement to 3GPP TS 23.205 on Framing Protocol Initialisation	Ericsson L.M., Siemens	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION: Agreed to use the term Nb UP, but have common IU framing.</p>
		0010	Proposed changes to Call Clearing chapter	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0011	Call Clearing, GSM Adaptation	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION; Achim comment fig 7.2 network initiated Need to add some text to show that call clearing can be MSC or BSC initiated. - Elena this is covered in NJ-010012.</p> <p>The document was approved as long as the rapporteur takes not of the UMTS / UTRAN terminology issues during implementation.</p>
		0012	(G)MSC and MGW Initiated Release, Call Clearing	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0013	Editorial corrections and proposed improvements to cover the error handling and missing data call related parts in Handover chapter (section 8)	Ericsson L.M.	REVISED TO 0064	
		0064	Editorial corrections and proposed improvements to cover the error handling and missing data call related parts in Handover chapter (section 8)	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION: Prem Failure handling internal to the MSC server The MSC will handle that error as an internal error. Is the MGW involved</p> <p>MSC Server indicates to the MGW that it shall release the bearers.</p> <p>If there is an error between the MGW and the MSC, the MSC should indicate this to other network nodes indicating an internal error.</p> <p>After the MGW can release the call.</p> <p>Example; if you have a failure the MSC releases the termination by the release termination message.</p> <p>Prem; there is a problem if the release termination message to the MGW has a failure - it was agreed that this would lead to a hanging situation. Alf, Ericsson; This hanging is handled in the normal way in H.248. the change</p> <p>Kevin; global comment to 23.025, need to correct to PLMN BC to PLMN Bearer capability. The rapporteur agreed to do a check throughout the specification.</p> <p>Thomas; The term MSC is often used to mean MSC server. The rapporteur will check this in the whole specification.</p>
		0014	Editorial corrections and proposed improvements to cover the support of A-interface in Handover chapter (section 8)	Ericsson L.M.	Withdrawn	
		0015	Addition of backward bearer establishment for Interactions with other Services (chapter 13)	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p> <p>Previously seen in Paris meeting, this corrects errors in the figures</p>
		0016	Proposed improvements to cover error handling in Interactions with Other Services (section 13)	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p>
		0017	Proposed improvements to cover the GSM access in Interactions with Other Services (section 13)	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p> <p>DISCUSSION: Note a LS Split on A interface to SA and GERAN - states there is no work on A interface split within GERAN.</p> <p>Remove the text relating to the split over the A interface. However 23.205 will require a section on interworking to the A interface. The Stage 1 specs need to be checked to see how this is to be done.</p> <p>Note needs to be added to intersystem handover section stating "text may need to be modified based on the interworking section"</p> <p>A new section will be added for interaction to BSC over A interface.</p> <p>Companies are invited to examine the architecture specifications and make contributions on this.</p>
		0018	Alignment of Call Waiting and Call Hold when establishing a new call	Ericsson L.M.	APPROVED	<p>PRESENTED BY: Elena of Ericsson</p>

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
	WITHDRAWN	0019	Completion of Calls to Busy Subscribers	Ericsson L.M.	POSTPONED	PRESENTED BY: Elena of Ericsson DISCUSSION: to be seen with related Siemens contrib.
		0020	IST	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0021	Charging	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0022	Enhancements to announcement/tone handling	Ericsson L.M.	REVISED TO 0072	PRESENTED BY: Elena of Ericsson DISCUSSION : Add a NOTE to say to section 14.1 "The GSM SRF functionality may be deployed within the MSC server, the current serving media gateway or within any MGW resource under the control of the current serving MSC server." The MGW asks SRF entity to play announcements. This may be done via the SSF function, but it is not mandated here The process for doing this should be described in CAMEL. It is not assumed that all MGWs have to provide this function.
		0072	Rev. Enhancements to announcement/tone handling	Ericsson L.M.	APPROVED	Approved without presentation
		0023	Identities	Ericsson L.M.	APPROVED	PRESENTED BY: Elena of Ericsson
		0024	Proposed improvements to CAMEL (section 14.1)	Ericsson L.M.	REVISED TO 0073	PRESENTED BY: Elena of Ericsson DISCUSSION: Changes to figures to shown GSM SRF SPLIT in GSM MSC and MGW. Add a note to section 14.1 "In the subsequent figures in section 14, the Connect to resource scenario is used. However the other CAMEL Intelligent Peripheral (IP) scenarios are not intended to be excluded. No impacts are identified when applying these other CAMEL IP scenarios."
		0073	Rev. Proposed improvements to CAMEL (section 14.1)	Ericsson L.M.	APPROVED	
		0025	Operator Determined Barring	Ericsson L.M.	REVISED TO 0074	PRESENTED BY: Elena of Ericsson DISCUSSION: In 14.3.1 Text makes no sense, as it does not say the call is barred - change text to show the call is rejected (depending on ODB flavour). Text was changed to reflect this. Comment to 14.3.2 should include the reference to section 14.6 Addition of Note to section 14.3 to state that other flavours of ODB may be supported although the impacts are not known - text was suggested.
		0074	Rev. Operator Determined Barring	Ericsson L.M.	APPROVED	
		0026	Proposed improvements in Messages/Procedures and Their Contents (section 15)	Ericsson L.M.	REVISED TO 0076	PRESENTED BY: Elena of Ericsson DISCUSSION: some missing text was added to tables for clarification Some disagreement on the text that was revised on-line.
		0076	Proposed improvements in Messages/Procedures and Their Contents (section 15)	Ericsson L.M.	APPROVED	

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0027	Tunnelling Transport Mechanism	Ericsson L.M.	REVISED TO 0075	<p>PRESENTED BY: Alf of Ericsson</p> <p>DISCUSSION: New Tunnel concept used for transporting bearer information.</p> <p>Transport is done using APM messages and especially the bearer information transport information element in BICC.</p> <p>For the moment only the IP bearer control protocol is intended to be transported through this dark tunnel. (no other protocol is defined).</p> <p>Noted that this aligns with the SIP T</p> <p>Replace "in case with" "an" and other textual changes.</p> <p>Siemens requested some changes to the text and a decision</p> <p>Ad Hoc discussion (Alf, Kevin, Thomas) on tunnel selection held over lunch - Came back with the NOTE for tunnel selection.</p>
		0075	Rev. Tunnelling Transport Mechanism	Ericsson L.M.	APPROVED	Principles agreed accept tunnel selection
		0035	Alternate Speech/Fax	Ericsson L.M.	REVISED TO 0065	REVISED Before presentation to the meeting
		0065	Alternate Speech/Fax	Ericsson L.M.		Reviewed by CN4
		0036	Multicall	Ericsson L.M.		Reviewed by CN4
		0037	CCBS	Siemens	REVISED TO 0068	
		0068	CCBS	Siemens		Reviewed by CN4
		0038	TS 23.205, chapter 13.5, Additions and corrections	Siemens		Reviewed by CN4
		0039	TS 23.205, chapter 13.7, Additions and corrections	Siemens		Reviewed by CN4
		0040	BICSCN – Bearer Redirection	Nortel Networks		Reviewed by CN4
		0059	TS 23.205 Version 1.0.1	Rapporteur		Reviewed by CN4
5.2	Inter MSC protocols; Nc Interface					
5.2.1	BICC					
5.2.2	SIP-T					
5.3	Inter MGW protocols; Nb Interface					
5.3.1	Nb UP protocol	0045	Nb Up Spec Modification:Primitives towards AAL2 provided	Siemens	Withdrawn	
		0047	Nb Up Spec Modification:Description of Initialization	Siemens	Withdrawn	
		0048	Nb UP Spec Modification:Clarification of Relationship between Iu UP Spec 25.415 and present Spec	Siemens	Withdrawn	

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0049	Proposal of New Nb Bearer Transport and Bearer Signalling Specification	Siemens	REVISED TO 0077	<p>PRESENTED BY: Thomas of Siemens</p> <p>DISCUSSION:</p> <p>AGREED THIS TS IS REQUIRED</p> <p>AGREED CN3 HAVE OWNERSHIP</p> <p>RAPPORTEUR WILL BE THOMAS BELLING, SIEMENS.</p> <p>IU framing should be the same for Nb. However the transport does not need to be the same for the Nb and the IU.</p> <p>Note; 414 is only the transport and transport control. 415 is the framing layer on top of that.</p> <p>It is considered that the document is complete for AAL2 layer. However the IP based transport layer is not complete.</p> <p>Proposed to review section 5 of 29.414 regarding ATM.</p> <p>Changes:</p> <p>DSS2 signalling instead of UDI signalling.</p> <p>'If' replaces 'in case'</p> <p>The TS number TS 29.414. has been allocated to this document by the MCC</p>
		0077	Rev Proposal of New Nb Bearer Transport and Bearer Signalling Specification	Siemens	APPROVED	<p>Tunnelling considerations will be dealt with in next meetings</p>
		0050	Protocol Considerations for the Nb Interface	Nortel Networks	REJECTED	<p>PRESENTED BY: Paul Dwyer of Nortel.</p> <p>DISCUSSION:</p> <p>Having the same IU and Nb framing is advantageous</p> <p>Proposes using AMR instead of the IU framing protocol.</p> <p>IU has no application specific selection of payload selection - this is</p> <p>Air interface adds redundancy and overhead - this is not required in the core network</p> <p>CN has already agreed to use IU framing protocol in the core network (for TRFO). An alternative solution IP over IU interface for CS is currently being studied in RAN3. However dependencies on this cause concerns for completion for Rel-4.</p> <p>Objections to this proposal from Alcatel, Ericsson and Siemens</p>
		0051	CR 29.007 - xxx on Introduction of Nb UP	Ericsson L.M.	REVISED TO 0058	<p>REVISED Before presentation to the meeting</p>
		0058	CR 29.007 - xxx on Introduction of Nb UP	Ericsson L.M., Siemens, Vodafone	REVISED TO 0078	<p>PRESENTED BY: Eric of Ericsson</p> <p>DISCUSSION: Modification to the changes to section 11.3 to add a 3rd bullet point. to introduce the ATM and IP.</p> <p>Minor change to 11.5.2.1 UDI and RDI for ANNEX P of [60]</p> <p>Addition change made to explain the meaning of MSC in the context of a split network to avoid inconsistencies in TS29.007.</p>

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0078	CR 29.007 - xxx on Introduction of Nb UP	Ericsson L.M., Siemens, Vodafone	APPROVED	Norbert (rapporteur 29.007) raised concerns on the terminology for MSC in Rel-3 and Rel-4. it is presently inconsistent and requires clarification. THIS WILL BE ESCALATED TO TSG_CN and the specifications will be updated following a decision by CN and SA A LS will be generated at the next CN3_CN4 meeting.
		0052	CR 23.910 – xxx on Introduction of Nb UP	Ericsson L.M.	REVISED TO 0079	PRESENTED BY: Eric of Ericsson DISCUSSION: Same concerns as to the previous CR. The text will be modified to reflect the final text in NJ-010078 section 11.3. If TDM is used the change to section 6.1 does not apply. change of text to reflect this. Minor editorial changes to text .
		0079	CR 23.910 – xxx on Introduction of Nb UP	Ericsson L.M.	APPROVED	
		0053	TS 29.415 DRAFT Core Network Nb Interface User Plane Protocols	Ericsson L.M.	REVISED TO 0057	REVISED Before presentation to the meeting
		0057	TS 29.415 DRAFT Core Network Nb Interface User Plane Protocols	Ericsson L.M., Siemens, Vodafone	REVISED TO 0080	PRESENTED BY: Eric of Ericsson DISCUSSION: RTP / UDP / IP had not been previously agreed within CN3. However the IETF have already defined RTP over UDP / IP so it is desirable to use the same method. Phil, Ericsson: presented a CR introducing a proposal for terminology for the IU framing protocols. Remove Access stratum from figures as the Core network UP is outside of the Access Stratum. Section 6.5.2 Ref to 23.295 changed to 29.232 and 13.153 removed Remove ANNEX A and references to the relay function from this specification, and place it into TS 29.232. This will be done in CN4.
		0080	rev TS 29.415 DRAFT Core Network Nb Interface User Plane Protocols	Ericsson L.M., Siemens, Vodafone	APPROVED	
		0054	Nb Up Spec Modification: Various Minor Changes	Siemens	WITHDRAWN	
		0091	29.232v1.0.0 TFO package (section 13.1.3)		WITHDRAWN	
		0092	29.232v1.0.0 Virtual media gateways		WITHDRAWN	
5.3.2	AAL2					
5.3.3	IP Bearer Control					
5.4	Vertical protocol; Mc Interface					
5.4.1	H.248/Megaco	0028	TDM Circuit Package	Tellabs	REVISED TO 0067	

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0067	TDM Circuit Package	Tellabs	WITHDRAWN	This is topic is very related to the work done in ITU-T SG 16 and delays may push it back to Rel-5. It was agree to re-study this as a part of Rel-5
		0029	Voice Processing Function Procedure	Tellabs	REVISED TO 0069	Relates to discussion to NJ-010062 Revised to incorporate the changes resulting from the conclusions in 0062
		0069	Voice Processing Function Procedure	Tellabs	APPROVED	PRESENTED BY: Prem of TELLABS
		0030	Changes to TS 29.232 due to revision in ITU SG 11	Ericsson L.M.	APPROVED	PRESENTED BY: Alf of Ericsson DISCUSSION: Remove draft from IETF references
		0031	Changes to TS 29.232 due to proposed changes in Ericsson contributions	Ericsson L.M.	REVISED TO 0098	PRESENTED BY: Alf of Ericsson DISCUSSION: Minor Spelling errors, check IP U terminology Comments were made to reserve bearer - missing response
		0098	Rev. Changes to TS 29.232 due to proposed changes in Ericsson contributions	Ericsson L.M.	APPROVED	PRESENTED BY: Alf of Ericsson
		0032	TFO package (section 13.1.3)	Ericsson L.M.	REVISED TO 0094	PRESENTED BY: Alf of Ericsson DISCUSSION: Term used in TrFO is distant as opposed to far- end. Addition of distant codec list. to EventID.
		0094	Rev TFO package (section 13.1.3)	Ericsson L.M.	APPROVED	
		0033	Virtual media gateways	Ericsson L.M.	APPROVED	PRESENTED BY: Alf of Ericsson DISCUSSION: Editorial "If" used in place of "In the case of"
		0034	BICC architecture with Q.1902 as call protocol	Ericsson L.M.	REVISED TO 0099	PRESENTED BY: Alf of Ericsson DISCUSSION: Nc should be Mc. Note bearer control is not included in this TS Clarification: 3GPP protocols are not dependant on one call control protocol. BICC is not a single protocol but a full suite of protocols. Some modifications were made to the Scope for clarification including addition of ITU-T Q.1902 for "3GPP Bearer Independent CS core network". Also add 23.153 to scope. Removal of requirements from the scope. AGREED THIS TS IS REQUIRED AGREED CN4 HAVE OWNERSHIP RAPPORTEUR WILL BE Alf Heidermark, Ericsson Request TS number to be TS 29.205
		0099	Rev BICC architecture with Q.1902 as call protocol	Ericsson L.M.	AGREED	
		0041	3G UP package in 29.232	Ericsson L.M.	REVISED TO 0097	PRESENTED BY: Phil of Ericsson DISCUSSION: bad frames are delivered to the upper layer (instead of not kept)
		0097	3G UP package in 29.232	Ericsson L.M.	APPROVED	

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
		0042	CS Data package enhancements	Ericsson L.M.	REVISED TO 0095	PRESENTED BY: Alf of Ericsson DISCUSSION: Enumeration should be Boolean - companies will study this back home. PLMN BC should be replace to PLMN Bearer Capability Also replace "in case" with "if" or "for" throughout the document - task for editors.
		0095	CS Data package enhancements	Ericsson L.M.	APPROVED	
		0043	Tone Generator package	Ericsson L.M.	REVISED TO 0066	Replaced before the start of the meeting
		0066	Tone Generator package	Ericsson L.M.	POSTPONED	PRESENTED BY: Alf of Ericsson DISCUSSION: Addition of Tone direction Problem with changing tone packages in SG 16. This may cause time frame conflicts. Why is 3GPP_CAMEL pre-paid warning tone (CPWT) required which is 3GPP specific as opposed to mapping it to an existing tone. Remove specific ref to 3 tone burst. Set to "Direction" tone as opposed to "CPWT" Then mapping table in MGW maps to CPWT. Following the COFFEE BREAK DISCUSSION agreement could not be reached. This document is postponed to be discussed on e-mail. Resolved is expected in the next ad hoc meeting.. Elena will initiate the e-mail discussion.
		0096	3G UP package in 29.232, addition of Relay Function description	Ericsson LM	REVISED TO 0112	PRESENTED BY: Phil of Ericsson DISCUSSION: Switch Figure 7 should be bi-directional lines though the relay function renumbering of figures.
		0112	Rev. 3G UP package in 29.232, addition of Relay Function description	Ericsson LM	APPROVED	PRESENTED BY: Phil of Ericsson DISCUSSION: Switch A related CR to TS 23.153 for the text transparent mode will be prepared for the next meeting.
		0060	TS 29.232, version 1.0.0	Rapporteur	NOTED	
6	AOB					
7	Output documents					
7.1	CRs					
7.2	TS/TR					
7.3	Other documents					
8	Review of dates and hosts for future meetings					

Agenda	Agenda Title	Tdoc NJ-01	Title	Source	Result	Notes
9	Closing of the meeting		Last session ended 12:30 Friday			<p>NOTE: Packages on the Mc interface shall be described in binary and textual encoding. However if binary encoding is not CN#11 these changes will be considered as essential corrections.</p> <p>An CN4 Rel-4 Ad Hoc meeting is planned for 13-15 Feb in Europe (somewhere) to discuss BI core network Stage 2, Nc and Mc Interfaces. The Nb interface will not be discussed at this meeting.</p> <p>The invitation will be issued to CN4 and CN3..No host at present.</p>

11 Output of CN3#15 Meeting

11.1 Work Items

TDoc #	Tdoc Title	Status
N3-010087	WID for Interworking between IM Subsystems with IP	APPROVED

11.2 Liaison Statements

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

TDoc #	Tdoc Title	LS to	LS cc	Attachment	Sent
N3-010088	requesting clarification on interworking between IM domain and CS networks	SA, SA1	SA2, CN1	None	23/01/01

11.3 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 #	Rel	Tdoc Title	CAT	C_Ver	N_Ver	WI
N3-010083	29.007	035	Rel-4	A-TRAU' correction	A	4.1.0	4.2.0	CORRECT
N3-010082	29.007	034	R99	A-TRAU' correction	F	3.7.0	3.8.0	CS Bearers
N3-010068	23.910	021	Rel-4	A-TRAU' correction	A	4.1.0	4.2.0	CORRECT
N3-010067	23.910	020	R99	A-TRAU' correction	F	3.3.0	3.4.0	CS Bearers
N3-010080	43.010	002	Rel-4	Additional changes for the removal of BS30NT and packet access	C	4.0.0	4.1.0	T.E.I_4
N3-010072	27.060	014	R99	DHCP lease renewal	F	3.4.0	3.5.0	GPRS
N3-010071	29.061	015	R99	DHCP lease renewal	F	3.4.0	3.5.0	GPRS
N3-010089	27.001	048	Rel-4	Removal of FAX NT in GSM from REL-4	C	4.2.0	4.3.0	RT Facsimile
N3-010077	27.003	008	Rel-4	Removal of FAX NT in GSM from REL-4	C	4.0.0	4.1.0	RT Facsimile
N3-010076	43.010	003	Rel-4	Removal of FAX NT in GSM from REL-4	C	4.0.0	4.1.0	RT Facsimile
N3-010081	43.010	001	Rel-4	Removal of S Reference Point in MS	C	4.0.0	4.1.0	T.E.I_4
N3-010085	27.001	046	R99	Removal of the blocking of higher modem speeds and editorial changes	F	3.7.0	3.8.0	CS Bearers
N3-010084	27.001	047	Rel-4	Removal of the blocking of higher modem speeds and editorial changes	A	4.2.0	4.3.0	CORRECT

NOTE: documents 0084, 0085, 0089 were revised at CN3#16 hance not agreed in CN3#15

11.4 New TRs / TSs

	Number	Owner	Rel	Title	Rapporteur	Company
TS	29.414	CN3	Rel-4	Core Network Nb Data Transport and Transport Signalling	THOMAS BELLING, THOMAS	SIEMENS.

11.5 Other

None.

11.6 Summary of CN3#15 Action Points

Includes all open action from previous meetings

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	STATUS
N3_13_03	ALL	Important to have a CN3 rapporteur for TS 07.60 and TS 27.060, and invites delegates to consider this for the next meeting.	A.S.A.P	OPEN
N3_14_04	Masahiko	Ensure a contribution on the future of SMWOP is made to the SA1 meeting, report back to CN3	before CN3#15	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	OPEN
N3_15_03	David, MCC	feed back the changes to the 3GPP project plan to Alain Sultan	before CN3#16	OPEN
N3_15_04	David, MCC	Feed back the changes to the CN3 specification list to John Meredith.	before CN3#16	OPEN
N3_15_05	David, MCC	Send out an e-mail to the CN3 email exploder announcing the CN3 elections	before End Jan 2001	OPEN
N3_15_06	Achim	Check the details relating to the A-TRAU' document	before CN3#16	OPEN
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	OPEN

12 Any other business

There was no other business raised at this point.

13. Close of meeting

Norbert closed the 15th CN3 meeting on Friday 19th January, 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#14.

Annex B: List of CN3 Meeting Participants

The following delegates attended the CN3#15 meeting.

NAME	COMPANY	STATUS	Tel	E-Mail
Dr. Thomas Belling	SIEMENS AG	3GPPMEMBER (ETSI)	+49 89 722 47315	Thomas.Belling@icn.siemens.de
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Annex C: List of documents

Details can also be found in the file *N3_15_Tdoc_list.xls* on the meeting server.

TDoc #	Type	Tdoc Title	Spec	Rel	C_Ver	Status
N3-010001	AGENDA	AGENDA FOR CN3#15 MEETING				APPROVED
N3-010002	REPORT	Draft Meeting Report from CN3#14 Meeting				REVISED to 0056
N3-010003	REPORT	Draft Meeting Report from CN#10 Meeting				NOTED
N3-010004	LS IN	Response to the LS from CN3 and CN4 on intersystem handover problem				NOTED
N3-010005	LS IN	Comments to LS from CN3 on intersystem handover problem				NOTED
N3-010006	LS IN	Working Assumptions made by N3 for the new TS 29.415 "Core Network Nb User Plane protocols				POSTPONED to joint session
N3-010007	LS IN	Bearer Modification without pre-notification				NOTED
N3-010008	LS IN	Asymmetric Transfer Delay				NOTED
N3-010009	LS IN	Progress on definition of codecs and protocols for a transparent packet-switched multimedia streaming service				NOTED
N3-010010	DISCUSSION DOC	Clarifications on A -TRAU'				NOTED
N3-010011	DISCUSSION DOC	Modification procedure between speech and multimedia				REPLACED by 0059
N3-010012	CR	CR on 27.001; Service modification between speech and multimedia	27.001	Rel-4	4.1.0	REPLACED by 0060
N3-010013	CR	CR on 29.007; Service modification between speech and multimedia	29.007	Rel-4	4.0.0	REPLACED by 0061
N3-010014	REPORT	Status Report of CN3 to CN#10				NOTED
N3-010015	REPORT	Brief Notice from CN/SA#10 to CN3				NOTED
N3-010016	REPORT	Presentation Slides of CN to SA				NOTED
N3-010017	[CR]	CR to 23.101 on Incorporation of the UE definition				NOTED
N3-010018	[LS]	LS to 3GPP on Convergence of QoS approaches in 3GPP and TIPHON				NOTED
N3-010019	[CR]	CR to 22.003 on Removal of TS61 and TS62 in NT mode from GSM in Rel-4 and later releases (R4)				NOTED
N3-010020	LS IN	Liaison statement on IP Multimedia sessions				NOTED
N3-010021	CR	Additional changes for the removal of BS30NT and packet access	43.010	Rel-4	4.0.0	REPLACED with 0045
N3-010022	CR	Removal of Fax NT from GSM	43.010	Rel-4	4.0.0	REVISED TO 0076
N3-010023	CR	Removal of FAX NT in GSM from REL-4	27.003	Rel-4	4.0.0	REVISED TO 0077
N3-010024	CR	Removal of FAX NT in GSM from REL-4	27.001	Rel-4	4.2.0	WITHDRAWN

TDoc #	Type	Tdoc Title	Spec	Rel	C_Ver	Status
N3-010025	CR	Corrections, clarifications and editorial changes	27.001	Rel-4	4.2.0	REVISED TO 0073
N3-010026	CR	Corrections, clarifications and editorial changes	27.001	R99	3.7.0	REVISED TO 0075
N3-010027	CR	Replacement of the terms GSM and UTRAN	27.001	R99	3.7.0	WITHDRAWN
N3-010028	CR	Replacement of the terms GSM and UTRAN	27.002	R99	3.5.0	WITHDRAWN
N3-010029	CR	Replacement of the terms GSM and UTRAN	27.003	R99	3.5.0	WITHDRAWN
N3-010030	CR	Replacement of the terms GSM and UTRAN	27.001	Rel-4	4.2.0	WITHDRAWN
N3-010031	CR	Replacement of the terms GSM and UTRAN	27.002	Rel-4	4.0.0	WITHDRAWN
N3-010032	CR	Replacement of the terms GSM and UTRAN	27.003	Rel-4	4.0.0	WITHDRAWN
N3-010033	TS	DRAFT Core Network Nb Interface User Plane Protocols	29.415	Rel-4	0.1.0	Seen in joint CN3_CN4
N3-010034	CR	Introduction of Nb UP	23.910	Rel-4	4.1.0	Seen in joint CN3_CN4
N3-010035	CR	Introduction of Nb UP	29.007	Rel-4	4.1.0	Seen in joint CN3_CN4
N3-010036	DISCUSSION DOC	Aspects Regarding Control Plane and User Plane Interworking between the IMSS and External IP networks				Seen in joint CN3_CN1
N3-010037	DISCUSSION DOC	Protocol Considerations for Nb Interface		Rel-4		Seen in joint CN3_CN4
N3-010038	TR	Proposal of New Nb Bearer Transport and Bearer Signaling Specification		Rel-4		Seen in joint CN3_CN4
N3-010039	TR	Nb UP Spec Modification:Clarification of Relationship between lu UP Spec 25.415 and present Spec	29.415	Rel-4		Seen in joint CN3_CN4
N3-010040	TR	Nb Up Spec Modification:Primitives towards AAL2 provided	29.415	Rel-4		Seen in joint CN3_CN4
N3-010041	TR	Nb Up Spec Modification:Description of Initialization	29.415	Rel-4		Seen in joint CN3_CN4
N3-010042	TR	Nb Up Spec Modification:Various Minor Changes	29.415	Rel-4		WITHDRAWN
N3-010043	REPORT	Draft Report from SA#10 Meeting				NOTED
N3-010044	WORK PLAN	Work_Plan_3GPP_001219				DISCUSSED
N3-010045	CR	Additional changes for the removal of BS30NT and packet access	43.010	Rel-4	4.0.0	REPLACED by 0065
N3-010046	CR	Removal of S Reference Point in MS	43.010	Rel-4	4.0.0	REVISED TO 0081
N3-010047	LIST	List of specifications after TSGN#10				NOTED
N3-010048	AGENDA	tdoc allocation to Agenda items				AGREED
N3-010049	WID	WID for CS Multimedia Swap and Fallback				NOTED
N3-010050	WID	WID for Service Modification without pre-notification				NOTED

TDoc #	Type	Tdoc Title	Spec	Rel	C_Ver	Status
N3-010051	WID	WID for Global Text telephony				NOTED
N3-010052	WID	WID for Interworking between IM Subsystems and CS				POSTPONED to CN3#16
N3-010053	WID	WID for Interworking between IM Subsystems with IP				WITHDRAWN
N3-010054	WID	WID for Bearer Independent Circuit-switched Core Network				NOTED
N3-010055	WID	WID for IWF at the CN Border				NOTED
N3-010056	REPORT	REV. Draft Meeting Report from CN3#14 Meeting				APPROVED
N3-010057	CR	DHCP lease renewal	29.061	R99	3.4.0	WITHDRAWN
N3-010058	CR	DHCP lease renewal	27.060	R99	3.4.0	REVISED TO 0072
N3-010059	DISCUSSION DOC	Modification procedure between speech and multimedia				WITHDRAWN
N3-010060	CR	CR on 27.001; Service modification between speech and multimedia	27.001	Rel-4	4.3.0	WITHDRAWN
N3-010061	CR	CR on 29.007; Service modification between speech and multimedia	29.007	Rel-4	4.1.0	WITHDRAWN
N3-010062	LS OUT	Response LS on Asymmetrical Transfer delay				WITHDRAWN
N3-010063	CR	DHCP lease renewal	29.061	R99	3.4.0	REVISED to 0071
N3-010064	CR	A-TRAU' correction	23.910	R99	3.1.0	REVISED to 0067
N3-010065	CR	Additional changes for the removal of BS30NT and packet access	43.010	Rel-4	4.0.0	REVISED to 0080
N3-010066	LS OUT	requesting clarification on interworking between IM domain and CS networks				REVISED to 0079
N3-010067	CR	A-TRAU' correction	23.910	R99	3.3.0	AGREED
N3-010068	CR	A-TRAU' correction	23.910	Rel-4	4.1.0	AGREED
N3-010069	CR	A-TRAU' correction	29.007	R99	3.7.0	REVISED TO 0082
N3-010070	CR	A-TRAU' correction	29.007	Rel-4	4.1.0	REVISED TO 0083
N3-010071	CR	DHCP lease renewal	29.061	R99	3.4.0	AGREED
N3-010072	CR	DHCP lease renewal	27.060	R99	3.4.0	AGREED
N3-010073	CR	Removal of blocking of higher modem speeds and editorial changes	27.001	Rel-4	4.2.0	REVISED TO 0084
N3-010074	WID	WID for Interworking between IM Subsystems with IP				REVISED TO 0087
N3-010075	CR	Corrections, clarifications and editorial changes	27.001	R99	3.7.0	REVISED TO 0085
N3-010076	CR	Removal of FAX NT in GSM from REL-4	27.003	Rel-4	4.0.0	AGREED

TDoc #	Type	Tdoc Title	Spec	Rel	C_Ver	Status
N3-010077	CR	Removal of FAX NT in GSM from REL-4	27.001	Rel-4	4.2.0	AGREED
N3-010078	CR	Removal of FAX NT in GSM from REL-4	27.001	Rel-4	4.2.0	MERGE INTO 0086
N3-010079	LS OUT	requesting clarification on interworking between IM domain and CS networks				REVISED TO 0088
N3-010080	CR	Additional changes for the removal of BS30NT and packet access	43.010	Rel-4	4.0.0	AGREED
N3-010081	CR	Removal of S Reference Point in MS	43.010	Rel-4	4.0.0	AGREED
N3-010082	CR	A-TRAU' correction	29.007	R99	3.7.0	AGREED
N3-010083	CR	A-TRAU' correction	29.007	Rel-4	4.1.0	AGREED
N3-010084	CR	Removal of blocking of higher modem speeds and editorial changes	27.001	Rel-4	4.2.0	AGREED - REVISED to 109 at CN3#16
N3-010085	CR	Corrections, clarifications and editorial changes	27.001	R99	3.7.0	AGREED - REVISED to 108 at CN3#16
N3-010086	CR	Removal of FAX NT in GSM from REL-4 and Removal of X.25	27.001	Rel-4	4.2.0	REVISED TO 0089
N3-010087	WID	WID for Interworking between IM Subsystems with IP				APPROVED
N3-010088	LS OUT	requesting clarification on interworking between IM domain and CS networks				APPROVED
N3-010089	CR	Removal of FAX NT in GSM from REL-4 and Removal of X.25	27.001	Rel-4	4.2.0	AGREED REVISED to 110 at CN3#16

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	
24 th Jan 2001	Draft v1.0.0 distributed to CN3 chairman for comments
24 th Jan 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 1 week 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 February 2001</p>
18th February 2001	Updated DRAFT v2.0.0 placed to the server
26 th February 2001	N3-010093[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#16 meeting. Updated to N3-010142 and placed to the server as v3.0.0.