



Third Generation Partnership Project

[DRAFT] Meeting Report v1.0.0
for
3GPP TSG CN WG 3
Meeting #24

Helsinki, Finland
29th July - 2nd August, 2002.



Hosted by

Elisa, Ficora , the Finnet Group, Nokia, and Sonera

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

Vice Chairman: None.

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

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1 Opening of the Meeting

The 24th CN3 meeting took place from 29th July to 2nd August 2002 in Helsinki, Finland.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 29th.

The Chairman welcomed the CN3 delegates to Helsinki on behalf of the hosts, and explained the logistical details for the rest of the week.

2 Approval of the agenda

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

http://www.3gpp.org/ftp/tsg_cn/WG3_interworking/TSGN3_24_Helsinki/Docs/

N3-020525: CN3#24 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft agenda for CN3#24 Meeting.

DISCUSSION: Norbert introduced the agenda and outlined the schedule of the meeting for the rest of the week.

RESULT: The Agenda was **APPROVED**.

3 Registration of documents

N3-020538: Allocation of documents to Agenda items (at tdoc deadline). Presented by CN3 Chairman.

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

DISCUSSION: Complied on the weekend before the meeting (after the deadline for documents was over).

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

N3-020539: Allocation of documents to Agenda items for (Start Day 1).

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

N3-020540: Allocation of documents to Agenda items for (Start Day 3).

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

N3-020541: Allocation of documents to Agenda items (Start Day 4).

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

N3-020542: Allocation of documents to Agenda items (Start Day 5).

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

4 Reports

4.1 Report of last CN3 Meeting

N3-020526: **CN3#23 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#23 held in Budapest, Hungary.

The report was completed and distributed at the end of the meeting. There was the usual 2-week deadline for comments by e-mail. These comments have been integrated in the revised meeting report presented in this document.

RESULT: The document was **APPROVED**.

4.2 Reports from last CN

N3-020527: **Draft report from NP#16.** Presented by David Boswarthick of MCC.

RESULT: The document was **NOTED**.

N3-020545: **Brief notice from CN#16 relevant for CN3.** Presented by CN3 Chair.

CONTENT: Short notice to inform you about the results of CN #16 plenary related to CN3 matters:

1. *CN3's status report given in NP-020160 was noted. The meeting reports of CN3#22 and CN#23 by MCC provided in NP-020161 and NP-020162 were also noted.*
2. *The LSs sent by CN3 are contained in NP-020163. They were noted.*
3. *CN3's change requests NP-020171 (GPRS-IPv6), NP-020172 (CS-Data) and NP-020169 (SCUDIF) were approved as provided by CN3. NP-020170 (GPRS-RADIUS) needed a minor update because the version number of one cover sheet was wrong. The updated document NP-020295 was approved.*
4. *CN1's and CN3's change requests (NP-020241 and NP-020169) regarding SCUDIF as well as the revised version of the WID (NP-020164) and the new specification TS 23.172 (NP-020168) were approved. With this the WI is complete in Rel-5.*
5. *The specifications TS 29.207 (NP-020167) and TS 29.208 (NP-020166) were approved. CN#16 requested a list of open issues. Daisuke has provided these lists in NP-020306 and NP-020307. The specifications are "functional frozen". This means that the specifications are set under change control, but CRs are still possible to solve the open issues and to align stage 3 and stage 2 specifications in Rel-5.*
6. *CN#16 endorsed CN3's decision that the work item on "Interworking IMS with CS" cannot be divided into different parts. CN#16 will propose to SA#16 to move this WI to Rel-6. The proposed revised WID in NP-020165 was rejected. The former version of this WID remains valid. The additional work for the IMS Mc interface will be covered by a separate WID "Bearer independent architecture in the PS domain" and CN4 has got the prime responsibility. This WID was approved as in NP-020320.*
7. *A report of the workshop on the harmonisation of the IP Core Networks in 3GPP /3GPP2 was given. Only impact on our work could come from the requirement to align the terminology. It was requested to update PCF into PDF (Policy Decision Function).*
8. *Our CR 29.007-48 rev 1 in N3-020281 regarding the "clarification to VMSC/HLR logic for modem/facsimile calls, which are signaled as speech" was approved at CN#16. However, the CN4 Chairman raised up the problem that this CR is now in contradiction to TS 23.018 and he proposed also to update that specification. This issue has to be solved.*
9. *A new style sheet for CRs is under discussion. It was presented to CN#16 for information. Several comments were received. SA #16 will approve the final version. David will provide this new style sheet as soon as possible. Please be aware of this update if you are going to provide CRs to next CN3 meeting.*

RESULT: The document was **NOTED**.

N3-020546: **Email on Editorial insertion of RFC#'s by CN Chair.** Presented by CN3 chair.

RESULT: The document was **NOTED**.

N3-020547: **Email on Highlights of CN#16/SA#16 by CN Chair.** Presented by CN3 chair.
CONTENT: Short notice to inform you about the results of CN #16 plenary related to CN matters:
RESULT: The document was **NOTED**.

4.3 Reports of other groups

N3-020528: **Draft report from SA#16.** Presented by David Boswarthick of MCC.
RESULT: The document was **NOTED**.

N3-020529: **Slides from CN#16 to SA#16.** Presented by David Boswarthick of MCC.
RESULT: The document was **NOTED**.

5 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

6 Items for immediate consideration

No documents for this agenda item

7 Received Liaison Statements

N3-020553: **LS on 'CS data services for GERAN lu-mode' [G2-020684], source GERAN2.**
Presented by CN3 chair.

CONTENT: In this LS GERAN2 asks SA2, CN1 and CN3 to inform them about their view on how HSCSD should be realized in GERAN lu-mode in order to have minimum overall impact on the network.

GERAN2 asks CN3 for help to complete the HSCSD support for GERAN lu-mode.

DISCUSSION: The response from SA2 is given in N3-020559 below.

RESULT: The document was **NOTED**.

N3-020559 **LS on 'CS data services for GERAN lu-mode' [S2-022043], source SA2.** Presented by CN3 chair.

CONTENT: In this LS SA2 recommends option 1 to GERAN2.

OPTION1: *Fully align to UTRAN and therefore additional functions e.g. split/combine, RLP functions are required in the BSC to convert the data stream received/sent via the lu interface into/from data streams transported through several traffic channels in case of an HSCSD configuration realized via the Um interface. The number of traffic channels currently used on the Um interface would not be visible to the CN. However, it is not clear if and how the HSCSD related functionality of the IWF (currently located in the 2G CN) can be separated and shifted to the BSS.*

DISCUSSION: This will be considered in CN3s discussions on CS data.

RESULT: The document was **NOTED**.

N3-020554 **LS on A/Gb evolution [GP-022012], source GERAN.**

DISCUSSION: The response from SA3 is given in N3-020620 below.

RESULT: The document was **NOTED**.

N3-020620 **LS on Security aspects of A/Gb evolution [S3-020445], source SA3.**

RESULT: The document was **NOTED**.

N3-020555 **LS on the final decision on exchange of addresses on lu-CS using IP Transport Option in Release 5 [R3-021620], source RAN3.** Presented by Thomas Belling of Siemens.

RESULT: The document was **NOTED**.

N3-020562 **LS on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5 [S4-020345], source SA4.** Presented by CN3 chair.

CONTENT: SA4 is unclear whether there are any restrictions on the IP-packet size, such as minimum or maximum size, except from what is stated in TS23.107. There the attribute "Maximum SDU size (octets)" is specified to be in maximum 1500 octets. There may be additional restrictions from the GGSN to the UE, such as in the CN.

SA4 kindly asks for responses to the following questions:

What is the maximum size of IP-packets guaranteed to be transported by the RAN/GERAN and CN?

Are there any minimum and / or maximum sizes for IP-packets in RAN/GERAN or CN, besides the 1500 octet limit in TS23.107?

Can you advise us on the fragmentation schemes used and the appropriate limits of each layer of fragmentation?

DISCUSSION: There have been several responses to SA4's request. These are given in N3-020556, N3-020636 and N3-020565.

RESULT: The document was **NOTED**.

N3-020556 **Re. LS on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5 [R3-021813], source RAN3.**

RESULT: The document was **NOTED**.

N3-020565 **Re. on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5. [GP-021882], source GERAN.**

RESULT: The document was **NOTED**.

N3-020636 **Re. LS on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5" [S2-022005] source SA2.** Presented by Javier Gonzalez Gallego of Nortel.

RESULT: The document was **NOTED**.

N3-020557 **LS on the Go Interface [S2-022000], source SA2.** Presented by Javier Gonzalez Gallego of Nortel.

CONTENT: CN3 asked SA2 to advise them on which of the following options should be followed:
A) SA2 requires individual IP flow QoS information to be passed over the Go interface in Rel-5, or

B) The Go interface will only pass the combined authorized QoS.

SA2 noted CN3's comment that detailed proposals are available for both options, but that no consensus exists in CN3 to proceed without an SA2 decision between these options.

SA2's view is that CN3 should follow option (A) above if, and only if, the following requirements are fulfilled:

- Description of the GGSN functions which act on the individual IP flow QoS information passed over the Go interface must be completed in order for the transfer of individual IP flow QoS information to be included on the Go interface for Release 5.
- Interaction between the functions in the GGSN which act upon the individual IP flow QoS information and any functions in the GGSN which mark packets according to e.g. the GSM-A guidelines must be described.

If the above requirements are not fulfilled, SA2 will accept option B for Release 5 as indicated in prioritization of the Go functions.

DISCUSSION: Nortel will present contributions related to this under the relative agenda item.

There was some discussion on the prioritization of work for CN3.

Ericsson supported concentrating on the OPTION B.

Nortel and AWS supported allowing a limited amount of time in this meeting on examining the contributions for OPTION A.

Norbert Klehn [CN3 chair] proposes that CN3 continues with work on OPTION B, and if we have enough remaining meeting time we will examine contributions relating to OPTION A.

RESULT: The document was **NOTED**.

- N3-020558** **LS on IMS Sessions and PDP Contexts (Response on “Distribution of IMS Charging ID (ICID) from GGSN to SGSN) [S2-022004], source SA2.** Presented by Mirko Schramm of Siemens.
- CONTENT:** SA2 provided the following answer to SA5 with respect to the relationship between IMS sessions and GPRS PDP contexts, SA2 provides the following answer:
- In Rel-5 it is possible that an IMS session uses multiple PDP contexts, while “it is assumed that media components from different IMS sessions are not carried within the same PDP context.” (TS 23.228 v5.5.0, sub-clause 4.2.5.1).
- In past SA2 meetings there was a strong tendency that it should be possible to carry multiple IMS sessions with similar QoS requirements on a single PDP context. However SA2 was not able to complete the necessary specification work in the Release 5 time frame. It can be expected however that this will be done for Release 6. This would imply that the assumption quoted above would no longer hold for Release 6.
- SA2 asks SA5 to ensure forward-compatibility in their charging solutions.
- DISCUSSION:** Relates to an LS from SA5 [N3-020621]. there are no changes for Rel 5 so CN3 can continue with their work.
- RESULT:** The document was **NOTED**.
- N3-020621** **LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN" [S5-024238], source SA5.** Presented by Ragnar Huslende of Ericsson.
- CONTENT:** SA5 provides the following answers to the questions raised by CN3:
1. The format of ICID is specified to be an OCTET STRING. The ICID is made up of a 32-bit running count, followed by the IP-address of the node that generates the ICID. (Details of encoding and ordering of the octets can be found in the attachment/will be provided after next SA5-meeting)
 2. ICID is needed in the post-processing of GPRS CDRs in order to perform pre-sorting of GPRS CDRs belonging to the same IMS session. For this purpose it is not sufficient to mark the GPRS CDRs with a simple flag when the Go-interface has been used.
 3. SA5 is aware of the discussions related to multiplexing of several IMS sessions on one PSP context. However, it is SA5's understanding that according to lately approved CRs in SA2, multiple IMS sessions for one PDP context should not be allowed; at least not in Rel-5.
- Note that the current specification of ICID supports both IPv4 and IPv6, but SA5 requests guidance whether or not the support of IPv4 in IMS is required. Specifications TS 23.221 (only IPv6 supported) and TS 24.229 (both IPv4 and IPv6 supported) seem to be contradicting on this issue.
- DISCUSSION:** There was supposed to be an email discussion for an attachment. It was NOT approved by email and therefore the format of the ICID is not yet agreed in SA5. CN3 will leave this open in their specifications for the time being.
- RESULT:** The document was **NOTED**.
- N3-020563** **LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN [S5-024169], source SA5.**
- RESULT:** The document was **NOTED**.
- N3-020560** **Response to: LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier [s2-022045], source SA2.** Presented by Steve Dutnall of AWS.
- CONTENT:** SA2 has discussed this issue and concludes there is a potential misuse of service scenario.

In order to prevent this, SA2 is considering that terminals shall use the same 64 bit IPv6 address prefix of the source address for outgoing packets as the prefix of destination address supplied for incoming packets (see attached proposed, although as yet not approved CR 40rev1: S2-022007).

It was noted in SA2 that unidirectional media sessions the PCF will not be able to use the relationship between destination and source IP address to apply to the packet classifier.

SA2 understands that the proposed changes may have impacts on the interworking to IP networks. In particular some SA2 delegates highlighted that there may be issues with the support of mobile IPv6 and the packet filters set in SBLP.

SA2 asks CN3 to investigate whether the proposed changes would cause additional problems if a 3GPP UE establishes an IMS session with a host using MobileIPv6, and if not to take account of the proposed change in Release 5. SA2 will then update their Stage 2 documentation.

DISCUSSION: It was clarified that the restriction of terminals shall use the same 64 bit IPv6 address prefix relating to all terminals.

The corresponding AWS contributions that deal with this issue are N3-020595 and N3-020596.

RESULT: The document was **NOTED**.

N3-020684 **LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier [N1-021757], source CN1.** Presented by Steve Dutnall of AWS.

CONTENT: CN1 agrees that the solution proposed by SA2 [N3-020560] limits the potential for fraud. However, CN1 has also identified some limitations in the proposed solution:

First, the limitation proposed by SA2 cannot be enforced on non-3GPP hosts (or on 3GPP hosts using non-GPRS access, e.g. WLAN). This means that a non-3GPP host using different 64 bits IPV6 prefixes for the source (i.e. outgoing packets) and destination (i.e. incoming packets) IP addresses would not be able to exchange media with a 3GPP UE.

Additionally there maybe scenarios where different 3GPP UEs share the same 64 bits IPv6 address prefix. This would be for example the case of several UEs behind a mobile router (they all use the 64 bits IPv6 address prefix allocated to the mobile router by the 3GPP network). In this case the 64 bits IPv6 address prefix does not identify a specific UE. So the fraud potential is not completely eliminated (although it is reduced).

DISCUSSION: The related AWS CR [N3-020596], does not take into account the additional information from CN1.

RESULT: The document was **NOTED**.

N3-020561 **LS on Requested QoS in case of Streaming and Conversational [S2-022061], source SA2.** Presented by Reidar Ericsson of Ericsson.

CONTENT: SA2 ask CN3 to endorse the attached CR to 27.060, which has to be applied from R99 onwards.

SA2 has discussed in recent meetings the issue of a terminal requesting 'subscribed' for the traffic class while the subscription allows streaming or conversational traffic class. A simple terminal requesting all QoS attributes as 'subscribed' and having only basic GPRS functionality, like e.g. a WAP browser, would then always get a streaming/conversational bearer if the subscription contains streaming/conversational.

To overcome this problem, SA2 agreed a change to the standards, as follows: if the UE sets the traffic class to 'subscribed', the network shall assume a request for Interactive class.

One assumption with this solution is that a UE, or application, having specific QoS requirements like Streaming or Conversational, would explicitly request the traffic class

it needs. If not, the UE would get Interactive even though the subscription allows Streaming or Conversational.

Additionally, the subscription in the HLR, which can contain only one QoS profile for a given APN, will indicate the maximum values allowed for each QoS attribute for all possible cases. Consequently, the Maximum Bit Rate is likely to reflect the maximum value allowed for the Interactive or Background class, which is normally higher than what can be allowed for Streaming or Conversational, leading to an over-reservation of resources or to a higher probability to have the QoS request rejected (if the traffic class requested is Streaming or Conversational and the subscribed Maximum Bit Rate is taken). Likewise, the Guaranteed Bit Rate is likely higher for Streaming than for Conversational and could therefore also lead to similar problems.

In order to spell out this assumption, SA2 decided to clarify in 23.107 and 23.060 that "When the application in the UE requires streaming or conversational QoS, then the UE shall at least explicitly request the traffic class and should explicitly request the guaranteed bit rate and the maximum bit rate".

The approved CRs to 23.107 and 23.060 (in S2-022055 and S2-022058 respectively) are attached for information (only the R99 CRs are attached but mirrors for R4 and R5 have also been approved).

SA2 is of the opinion that 27.060 should also be updated with such clarification, i.e. "When the application in the TE requires streaming or conversational QoS, then the MS shall at least explicitly request the traffic class and should explicitly request the guaranteed bit rate".

DISCUSSION: The contained CR was examined by CN3. Corresponding CRs from Ericsson to TS 27.060 are presented in N3-020657, N3-020658 and N3-020659.

The response LS from CN3 to SA2 is contained in N3-020660.

Johanna Wild [Motorola] had some concerns with the package making functional changes to the frozen R99.

RESULT: The document was **NOTED**.

N3-020660 **Re. LS to SA2 on QoS in case of Streaming and Conversational, source CN3.**
Presented by Reidar Ericsson of Ericsson.

CONTENT: This LS is sent to inform SA2 that CN3 endorse the mentioned arguments for changing the standards to overcome the problems that may occur if 'subscribed' is requested for the Traffic Class and ensure that the requested Guaranteed and Maximum Bit Rate are explicitly set when Traffic Class Streaming or Conversational is chosen.

RESULT: The document was **APPROVED**.

N3-020564 **LS on Multiple Codecs [S5-024171], source SA5.** Presented by Steve Duttall of AWS.

CONTENT: Regarding CN3's working assumptions, SA5 requests the following clarifications:

1. Is it a limitation of the resource reservation mechanism being used (e.g. an IETF protocol), that makes it unable to provide to the P-CSCF information on the codec and bit-rate chosen by the UE and the actual selected bandwidth allocated?
2. Could the secondary offer/answer interaction (which would reduce the codecs per media component to one) be made outright mandatory (or at least mandatory – operator configurable), thus avoiding the resulting implications identified by CN3?
3. Would SA5 be correct in the understanding that, as a result, an IMS user would be charged for a higher QoS (albeit, as authorized) than what the user received?

Further, and most significantly, SA5 emphasizes that serious legal repercussions could manifest as a result of charging the user for a higher QoS, when the user has had access to lower QoS. This is a concern expressed by many operators at SA5.

ACTION to: CN3

1. SA5 asks CN3 for clarifications to the above questions;
2. SA5 urges CN3 to re-examine the options available and design a mechanism that will enable billing users in a proper (legal) and accurate manner for services rendered.

DISCUSSION: Thomas Belling thought that SA2 and CN1 are better placed to answer the questions raised by SA5.

It was discovered that CN1 have already provided a response to SA5 on this issue.

The CN3 response to SA5 is in N3-020661.

RESULT: The document was **NOTED**.

N3-020661 **Re. LS to SA2 on Multiple Codecs.** Presented by Thomas Belling of Siemens.

DISCUSSION: Brian Williams [Ericsson] suggested that this work adds new functionality and the wording needs to be changed to reflect this. The exact wording was modified offline, along with some editorial modifications.

RESULT: The document was **REVISED to 0666**.

? **REVISED?**

N3-020666 **Re. LS to SA2 on Multiple Codecs, source CN3.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **APPROVED**.

N3-020619 **LS on Network Integration Testing, source ETSI TC SPAN.** Presented by David Boswarthick of MCC.

DISCUSSION: Network integration testing is more relevant to the 3GPP testing groups.

CN3 cannot endorse the attached documents (not because they are incorrect) because this issue is outside of the scope of CN3.

CN Plenary is also copied on this LS. CN3 expect CN plenary to reply to this LS.

RESULT: The document was **NOTED**.

N3-020671 **Re. LS to "LS on DTMF" [S4-020478], source SA4.**

DISCUSSION: No actions for CN3.

RESULT: The document was **NOTED**.

N3-020672 **Re. to LS (N3-020119, S4-020198) on Procedure for specifying UMTS QoS Parameters per Application (R2-020793) [S4-020486], source SA4.**

CONTENT: In this LS SA4 wants to update the answer to RAN2 given in document S4-(02)0333 "Response to LS (N3-020119, S4-020198) on Procedure for specifying UMTS QoS Parameters per Application (R2-020793)". Some new and updated information is available for streaming and is included.

DISCUSSION: The IETF defined that the RTCP is **not** included in the session bandwidth. However, Mirko Schramm [Siemens] believes that RTCP is contained in the session bandwidth.

Norbert suggested that this issue is more relevant to SA4 and needs to be resolved by that group. However CN3 is dependant upon their work for the mapping tables.

A SA4 delegate who was present in CN3 clearly stated that **SA4 believe that the RTCP is outside of the session bandwidth.**

This information has impact on CN3s work. There are contributions to CN3#24 meeting that deal with this issue.

RESULT: The document was **NOTED**.

8 Release 4 and earlier

NOTE: *Release 4 and earlier 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.

8.1 GPRS

8.2 Circuit switched Bearer Services

N3-020548 **CR 23.910-R99: Handling of M2 Bit for Handover, source Siemens AG.** Presented by Norbert Klehn of Siemens.

CONTENT: This CR corrects and erroneous implementation of a previous CR and corrects the title of one reference specification.

RESULT: The document was **AGREED**.

N3-020549 **CR 23.910-Rel-4: Handling of M2 Bit for Handover, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED**.

N3-020550 **CR 23.910-Rel-5: Handling of M2 Bit for Handover, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED**.

N3-020662 **CR 43.010-Rel-4 Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED**.

N3-020551 **CR 43.010-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** . Presented by Norbert Klehn of Siemens.

CONTENT: This CR corrects removes potential inconsistency between TS 44.021, 43.010 and 48.020 and erroneous specification of the rate adaptation function mentioned above.

RESULT: The document was **REVISED to 0638**.

? **REVISED?**

N3-020638 **CR 43.010-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED**.

N3-020552 **CR 44.021-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

CONTENT: The CR removes inconsistency between TS 44.021, 43.010 and 48.020 and erroneous specification of the rate adaptation function mentioned above.

RESULT: The document was **REVISED to 0639**.

? **REVISED?**

N3-020639 **CR 44.021-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

DISCUSSION: Various updates were proposed on-line.

RESULT: The document was **REVISED to 0663.**

? REVISED?

N3-020663 **CR 44.021-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

DISCUSSION: The CR includes changes on changes - a clean version is provided in the revised document.

RESULT: The document was **REVISED to 0680.**

? REVISED?

N3-020680 **CR 44.021-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED.**

N3-020681 **CR 44.021-Rel-4: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED.**

N3-020566 **CR 48.020-Rel-5: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

CONTENT: The CR aligns the spec with 43.010 and 44.021 concerning the rate adaptation function RA1'/RA1" for the user rates 48, 56 and 64 kbit/s.

Introduces the rate adaptation function RA1'/RAA" for the user rate of 64 kbit/s using TCH/F14.4 channel coding.

Moves RA1, RA2 and RA1" rate adaptation functions from TS 44.021 to TS 48.020

RESULT: The document was **AGREED.**

N3-020682 **CR 48.020-Rel-4: Correction of Rate Adaptation Functions and removal of S Reference Point in MS, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED.**

N3-020567 **CR 44.021-Rel-5: Correction of protocol stacks in Annex A, source Siemens AG.** Presented by Norbert Klehn of Siemens.

CONTENT: This CR updates the protocol stacks in annex A in order to reflect the following decision in 3GPP: - removal of S reference point as internal interface in the MS

- removal of Fax NT in GERAN A/Gb mode

- removal of BS 30 NT

- correction of RA relay functions

RESULT: The document was **AGREED.**

N3-020683 **CR 44.021-Rel-4: Correction of protocol stacks in Annex A, source Siemens AG.** Presented by Norbert Klehn of Siemens.

RESULT: The document was **AGREED**.

8.3 Bearer Independent Circuit switched Core network

N3-020588 **Handling of CSD calls and Inter-MSR Relocation, source LM Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: The discussion document proposes that for Inter-MSR Relocation for CSD calls in 29.007 REL-4 and REL-5 should be changed to assume only PCM/TDM capability – i.e. CSD should be defined for TDM and carried in support mode Nb UP as PCM (40 Octets sent every 5 ms). In addition new properties are needed in TS 29.232 to indicate to the MGW that it must use the ATRAU' frame format, allowing for all call cases to be handled.

The CRs N3-020589 & N3-020590 are presented for approval to rectify the current problem with Inter-MSR Relocation for CSD calls. The dependent CRs on TS 29.232 are submitted to CN WG4 for approval, they are enclosed here for agreement by CN3.

RESULT: The document was **NOTED**.

N3-020589 **CR 29.007-Rel-4: Handling of CSD calls and Inter-MSR Relocation source LM Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: Makes changes to 29.007 For Inter-MSR handovers it shall be assumed that TDM may exist in the connection and therefore only the procedures for the TDM case shall apply. For Nb UP this shall be transported within a 64k SDU as for PCM.

DISCUSSION: There were some minor problems with table / figure numbering scheme.

Also the footnote should be a note to the table.

Another CR is required to change similar text in TS23.910.

Thomas Belling [Siemens] felt the proposed solution was not complete and requested some offline discussion with the author before the CR could be agreed. Nokia supported postponing the CR to the next meeting. However it was request to see a revised version of this CR

RESULT: The document was **REVISED to 0664**

? **REVISED?**

N3-020664 **CR 29.007-Rel4: Handling of CSD calls and Inter-MSR Relocation source LM Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED**.

N3-020590 **CR 29.007-Rel-5: Handling of CSD calls and Inter-MSR Relocation, source LM Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **REVISED to 0693 before presentation**.

? **REVISED?**

N3-020693 **CR 29.007-Rel-5: Handling of CSD calls and Inter-MSR Relocation, source LM Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED**

N3-020665 **CR 29.910 Rel-4: Handling of CSD calls and Inter-MSR Relocation, source LM Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED**

N3-020694 **CR 29.910 Rel-5: Handling of CSD calls and Inter-MSC Relocation, source LM Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED**

N3-020630 **IP bearer Modification Procedure, source Siemens.**

RESULT: The document was **NOTED.**

N3-020631 **CR 29.414-Rel-4: Introduction of IP Bearer Modification Procedure, source Siemens.**

DISCUSSION: This CR is dependant on the outcome of CN4s email decision.

RESULT: The document was **REVISED to 0712.**

? **REVISED?**

N3-020712 **CR 29.414-Rel-4: Introduction of IP Bearer Modification Procedure, source Siemens.**

DISCUSSION: Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

END RESULT: The document was **WITHDRAWN.**

N3-020632 **CR 29.414-Rel-5: Introduction of IP Bearer Modification Procedure, source Siemens.**

DISCUSSION: This CR depends on the outcome of CN4s email decision.

RESULT: The document was **REVISED to 0713.**

? **REVISED?**

N3-020713 **CR 29.414-Rel-5: Introduction of IP Bearer Modification Procedure, source Siemens.**

DISCUSSION: Placed on email approval until 23/08/02.

END RESULT: The document was **WITHDRAWN.**

8.4 Technical Enhancements & Improvements (TEI)

N3-020597 **CR 29.007- R99: Removal of SDU error ratio for NT services, source Alcatel**
Presented by Tony Huynh-Quang of Alcatel.

CONTENT: CR removes the SDU error ratio from RAB parameters for non-transparent services

RESULT: The document was **AGREED.**

N3-020598 **CR 29.007- Rel4: Removal of SDU error ratio for NT services, source Alcatel**
Presented by Tony Huynh-Quang of Alcatel.

RESULT: The document was **AGREED.**

N3-020599 **CR 29.007- Rel5: Removal of SDU error ratio for NT services, source Alcatel.**
Presented by Tony Huynh-Quang of Alcatel.

RESULT: The document was **AGREED.**

N3-020600 **CR 23.910-R99: Removal of SDU error ratio for NT services, source Alcatel.**
Presented by Tony Huynh-Quang of Alcatel.

RESULT: The document was **AGREED**.

N3-020601 **CR 23.910-Rel4: Removal of SDU error ratio for NT services, source Alcatel.**
Presented by Tony Huynh-Quang of Alcatel.

RESULT: The document was **AGREED**.

N3-020602 **CR 23.910-Rel5: Removal of SDU error ratio for NT services, source Alcatel.**
Presented by Tony Huynh-Quang of Alcatel.

RESULT: The document was **AGREED**.

N3-020657 **CR QoS in case of Streaming and Conversational, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

CONTENT: The CR clarifies that when the application in the TE requires streaming or conversational QoS, then the MS shall at least explicitly request the traffic class and should explicitly request the guaranteed bit rate and the maximum bit rate.

DISCUSSION: Hatef Yamini expressed H3Gs concerns at this change may result in possible the user having to configure certain options - it may not be an automatic process.

RESULT: The document was **AGREED**.

N3-020658 **CR QoS in case of Streaming and Conversational, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

RESULT: The document was **AGREED**.

N3-020659 **CR QoS in case of Streaming and Conversational, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

RESULT: The document was **AGREED**.

9 Release 5

9.1 e2e QoS for IM Subsystem

9.1.1 General

N3-020572 **Authorized QoS vs. Guaranteed and maximum bit rates, source Nokia.** Presented by Juha Räsänen of Nokia

CONTENT: It is still open in TS 29.207 and TS 29.208 whether the authorized data rate should correspond to the Maximum bit rate UMTS QoS parameter or the Guaranteed bit rate UMTS QoS parameter. This document discusses the issue and proposes a solution.

It is proposed to define the Guaranteed bit rate UMTS QoS parameter to correspond to the maximum authorized data rate (that is derived from the SDP bandwidth) in conversational and streaming cases.

DISCUSSION: Lucent voiced their support of the proposed solution.

RESULT: The document was **NOTED - PRINCIPLE AGREED.**

N3-020573 **CR 29.207: Authorized QoS vs. Guaranteed and maximum bit rates, source Nokia / Ericsson.** Presented by Juha Räsänen of Nokia

CONTENT: This CR makes the guaranteed bit rate to correspond to the maximum authorized data rate that is derived from the SDP bandwidth parameters. The maximum bit rate may be equal to or greater than the guaranteed bit rate, based on subscriber and service specific settings in the HLR/HSS and on the capacity/capabilities of the network.

DISCUSSION: Proposed to add 'SGSN' to the new text in 4.3.1.1.1

Proposed to add 'service configuration' to the new text in 4.3.1.1.1

Also some minor editorials and type errors need to be corrected.

RESULT: The document was **REVISED to 0673.**

? **REVISED?**

N3-020673 **CR 29.207: Authorized QoS vs. Guaranteed and maximum bit rates, source Nokia / Ericsson.** Presented by Juha Räsänen of Nokia

RESULT: The document was **AGREED.**

N3-020574 **CR 29.208: Authorized QoS vs. Guaranteed and maximum bit rates, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: This CR makes the guaranteed bit rate to correspond to the maximum authorized data rate that is derived from the SDP bandwidth parameters. The maximum bit rate may be equal to or greater than the guaranteed bit rate, based on subscriber and service specific settings in the HLR/HSS and on the capacity/capabilities of the network.

DISCUSSION: It was mentioned that this change takes into account the information contained in the LS from SA4.

Mirko Schramm [Siemens] stated that his company supports the proposal. However their are contributions from Siemens that change the same areas of text. This may cause implementation errors. He proposed merging the common parts into a single CR.

It was agreed to remove the activation reject option in 7.1.3

Removed the term 'may to avoid ambiguity.

Also some minor editorials and type errors need to be corrected.

RESULT: The document was **REVISED to 0674.**

? **REVISED?**

- N3-020674** **CR 29.208: Authorized QoS vs. Guaranteed and maximum bit rates, source Nokia.** Presented by Juha Räsänen of Nokia
- RESULT:** The document was **AGREED**.
- N3-020576** **RTP / RTCP discussion, source H3G.** Presented by Hatef Yamini of H3G.
- CONTENT:** This document discusses the mechanism for identifying individual IP flows within a media component.
- DISCUSSION:** There were concerns that this is not a REL-5 issue.
- H3G preferred to get agreement in CN3 that it is technically feasible and then inform SA2 of the possibility to have this functionality for Rel-5.
- H3G believe this work is important for optimizing the radio bearer.
- It was agreed to move the discussion on RTP/RTCP split to the end of the Go interface discussions. All of the related documents were finally withdrawn.
- RESULT:** The document was **WITHDRAWN**.
- N3-020577** **CR 29.207: RTP/RTCP split, source H3G.**
- RESULT:** The document was **WITHDRAWN**.
- N3-020578** **CR 29.207: RTP/RTCP split, source H3G.**
- RESULT:** The document was **WITHDRAWN**.
- N3-020579** **CR 29.208: RTP/RTCP split, source H3G.**
- RESULT:** The document was **WITHDRAWN**.
- N3-020611** **CR 27.060: Media grouping for the UE, source Ericsson.**
- RESULT:** The document was **WITHDRAWN**.
- N3-020612** **CR 27.060: IMS related functions for the UE, source Ericsson.** Presented by Reidar Ericsson of Ericsson.
- CONTENT:** The CR adds new chapter 13, "IMS related functions". Updates have also been made to the reference and abbreviations clauses
- DISCUSSION:** The term DHCPv6. needs to be used throughout the document. Also the reference to DHCPv6 needs to be added.
- The use of the term MS / UE aligns with the existing terminology in 27.060.
- Mirko Schramm [Siemens] proposed adding a separate PDP context dedicated to IMS signaling. This being indicated by the signaling flag.
- Also replace IP media flows with the term IMS media flows
- 'Media authorization token' should be replaced by the term 'authorization token'.
- 'IP flow identifier' should be replaced by the term 'flow identifier'.
- Apply the DRAFTING RULES [avoid use of must].
- RESULT:** The document was **REVISED to 0675**.
- ? REVISED ?**
- N3-020675** **CR 27.060: IMS related functions for the UE, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

- DISCUSSION:** The reference to IETF DRAFT for DHCPv6 is missing - It is not know when the DRAFT will be allocated an RFC number. This will be added as a reference.
Some editorial changes were also made.
- RESULT:** The document was **REVISED to 0689**.
- ? **REVISED?**
- N3-020689** **CR 27.060: IMS related functions for the UE, source Ericsson.** Presented by Reidar Ericsson of Ericsson.
- RESULT:** The document was **AGREED**.
- N3-020613** **CR 27.060: Align TS 27.060 with TS 23.207 changes according to contribution S2-022001, source Ericsson.** Presented by Brian Williams of Ericsson.
- CONTENT:** The UE will wildcard the TFT if binding information is included.
- DISCUSSION:** There is already a section on binding information proposed in another Ericsson contribution. If agreed this text will be added to the end of he new section.
- RESULT:** The document was **AGREED**.
- N3-020615** **Support for forking, discussion, source Ericsson.**
- RESULT:** The document was **REVISED to 0655 before presentation**.
- ? **REVISED?**
- N3-020655** **Support for forking, discussion, source Ericsson.** Presented by Ragnar Huslende of Ericsson.
- CONTENT:** This discussion paper is based on the stage 2 requirements as specified in (1). It is accompanied by CR's proposing text for handling of forking related to the UE (CR to 27.060) and to the Go interface (CR's to 29.207 and 29.208). In addition, there will be corresponding CR's proposing changes to 24.229.
- DISCUSSION:** It was stated that the CR to 23.228 has been agreed by SA2, and approved in SA#16 Plenary.
There were concerns raised about providing such a solution for forking when interworking to external networks is not standardized as a part of Rel-5. Ragnar replied that SA2 are aware of the status of interworking for Rel-5, and they have agreed the stage 2 changes for forking.
Mirko Schramm [Siemens] had some concerns with dealing with this forking requirement in this meeting, and preferred that it be dealt with in the next meeting.
CN1 are also examining the forking issue. A Joint discussion of the issue was carried out between interested parties.
- RESULT:** The document was **NOTED**.
- N3-020614** **CR 27.060: Support for forking in the UE, source Ericsson.** Presented by Ragnar Huslende of Ericsson.
- CONTENT:** The CR describes the outline of the UE procedures for handling of forking
- DISCUSSION:** Various comments were provided in order to improve the text.
- RESULT:** The document was **REVISED to 0719**.
- ? **REVISED?**
- N3-020719** **CR 27.060: Support for forking in the UE, source Ericsson.** Presented by Ragnar Huslende of Ericsson.
- DISCUSSION:** Mirko Schramm [Siemens] believes there are close links to the CR in 0721.

Agreed on the condition [CR in N3-0721 is agreed].

RESULT: The document was **CONDITIONALLY AGREED.**

END RESULT: The document was **CONDITION MET - CR AGREED.**

N3-020616 CR 29.207: Support for forking in 29.207, source Ericsson.

RESULT: The document was **REVISED to 0656 before presentation.**

? **REVISED?**

N3-020656 CR 29.207: Support for forking in 29.207, source Ericsson. Presented by Ragnar Huslende of Ericsson.

CONTENT: Introduces limited support for forking.

DISCUSSION: Need to use the 'PCF' terminology when applied to Go interface. Also Nokia had some comments to possible duplicated text and suggested alternative text. The exact phraseology was taken off-line.

RESULT: The document was **REVISED to 0700.**

? **REVISED?**

N3-020700 CR 29.207: Support for forking in 29.207, source Ericsson. Presented by Ragnar Huslende of Ericsson.

RESULT: The document was **REVISED to 0722.**

? **REVISED?**

N3-020722 CR 29.207: Support for forking in 29.207, source Ericsson. Presented by Ragnar Huslende of Ericsson.

DISCUSSION: Minor editorial updates required. Also Siemens provided a minor change to the text (offline).

RESULT: The document was **REVISED to 0729.**

? **REVISED?**

N3-020729 CR 29.207: Support for forking in 29.207, source Ericsson. Presented by Ragnar Huslende of Ericsson.

DISCUSSION: Agreed on the condition [CR in 0721 is agreed].

RESULT: The document was **CONDITIONALLY AGREED.**

END RESULT: The document was **CONDITION MET - CR AGREED.**

N3-020617 CR 29.208: Support for forking in 29.208, source Ericsson. Presented by Ragnar Huslende of Ericsson.

DISCUSSION: Nokia requested a slight change on order to clarify the text.

RESULT: The document was **REVISED to 0720.**

? **REVISED?**

N3-020720 CR 29.208: Support for forking in 29.208, source Ericsson. Presented by Ragnar Huslende of Ericsson.

DISCUSSION: Mirko Schramm [Siemens] believes there are close links to the CR in 0721.

The rules for forking need to be added in the tables. This can be done by clean-up CRs to the next meeting.

Agreed on the condition [CR in 0721 is agreed].

RESULT: The document was **CONDITIONALLY AGREED.**

END RESULT: The document was **CONDITION MET - CR AGREED.**

N3-020718 **CR 29.208: Session modification initiated decision, source Ericsson.** Presented by Brian Williams of Ericsson.

CONTENT: This contribution describes the procedures to support bandwidth modification.

DISCUSSION: There were some problems with the clarity of text describing this feature.

RESULT: The document was **REVISED to 0721.**

? **REVISED?**

N3-020721 **CR 29.208: Session modification initiated decision, source Ericsson.** Presented by Brian Williams of Ericsson.

DISCUSSION: Mirko Schramm [Siemens] asked for more time to study the IMS enforced modification in order to check if the REVOKE procedure can be used instead. The whole issue of forking needs to be examined in detail.

Mirko requested that the Forking Issue be placed to email discussion as a pack.

Nokia supported the Ericsson contribution and believe the existing REVOKE procedure cannot be reused.

Nokia felt that the Siemens contribution N3-020622 (that has been agreed) relates to the issue of timers. If we agree with the forking concept, then the CR in N3-020622 will need to be changed.

Finally decided to keep N3-020622 and if there is a clash, correct it with a further CR

Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

RESULT: The document was **REVISED to 0742.**

? **REVISED?**

N3-020742 **CR 29.208: Session modification initiated decision, source Ericsson.** Presented by Brian Williams of Ericsson.

END RESULT: The document was **AGREED.**

9.1.2 29.207

N3-020568 **TS 29.207, Version 2.0.0 [NP-020167], source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

RESULT: The document was **NOTED.**

N3-020569 **Open issues for TS29.207, Version 2.0.0 [NP-020307] , source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the open issues list for TS 29.207(at NP#16).

- The sections for DiffServ edge function are still empty since the requirement for DiffServ interworking has been given lower priority by SA2 (section 4.3.1.4 and A.1.2). The contents of these sections have to be decided on receiving a response LS from SA2.
- The wildcarding of source IP address has to be specified on receiving a response LS from SA2 (section 4.3.1.3 and 5.2.1.1).
- The handling of IMS charging ID has to be detailed on receiving a response LS from SA5 (section 6.3.2).
- The handling of an error case caused by discrepancy between authorized QoS information and TFT parameters has to be studied based on the decision of SA2 (section 4.3.1.3 and 5.1.4).

- The mapping of authorized data rate into UMTS QoS bit rate parameter has to be decided (section 4.3.1.1 and 5.2.1.1).
- The initialization and maintenance of GGSN and PCF have to be specified (section 4.3.1.2 and 4.3.2.2).
- A solution for possible theft of service has to be studied and determined (section 4.3.2.1).
- The location of UE specific descriptions has to be decided (annex A).
- The limitation table of Go PIB has to be updated (annex B).

DISCUSSION: The list is complete apart for the forking issue. That is an additional request from SA#16.

This document will be updated after the discussions on 29.207 are completed in this meeting / email. It will be used as a reporting mechanism back to CN plenary.

RESULT: The document was **REVISED to 0703**.

? REVISED?

N3-020703 **Open issues for TS29.207, source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the open issues list for TS 29.207 (at end of CN3#24 meeting)

1. The sections for DiffServ edge function are still empty since the requirement for DiffServ interworking has been given lower priority by SA2 (section 4.3.1.4 and A.1.2). The contents of these sections have to be decided on receiving a response LS from SA2.
[OPEN] Could not reach an agreement at CN3 #24. Go to email approval.
2. The wildcarding of source IP address has to be specified on receiving a response LS from SA2 (section 4.3.1.3 and 5.2.1.1).
[OPEN] Asking SA2 for further guidance by proposing a CN3's solution via LS. The issue will be closed depending on the response from SA2.
3. The handling of IMS charging ID has to be detailed on receiving a response LS from SA5 (section 6.3.2).
[OPEN] Yet to define the format of IMS charging ID in SA5.
4. The handling of an error case caused by discrepancy between authorized QoS information and TFT parameters has to be studied based on the decision of SA2 (section 4.3.1.3 and 5.1.4).
[CLOSED] by TS29.207 CR012r1 (N3-020676) and TS27.060 CR021 (N3-020613).
5. The mapping of authorized data rate into UMTS QoS bit rate parameter has to be decided (section 4.3.1.1 and 5.2.1.1).
[CLOSED] by TS29.207 CR006r1 (N3-020673).
6. The initialisation and maintenance of GGSN and PCF have to be specified (section 4.3.1.2 and 4.3.2.2).
[CLOSED] by TS29.207 CR025r1 (N3-020686).
7. A solution for possible theft of service has to be studied and determined (section 4.3.2.1).
[OPEN] Agreed to study other options and to come up with an agreed solution at CN3 #25.
8. The location of UE specific descriptions has to be decided (annex A).
[CLOSED] by TS29.207 CR021 (N3-020607) and TS27.060 CR024r2 (N3-020689).
9. The limitation table of Go PIB has to be updated (annex B)
[CLOSED] by TS29.207 CR005r1 (N3-020677).
10. The support of forking shall be considered. (new requirement added to TS23.228 by a CR agreed at SA#16)
[OPEN] Delegates need time for study. Go to email approval.
11. A reference to Internet Draft shall be updated to refer to RFC.
[OPEN] Checking with IETF. Go to email approval.

12. An IANA number for PIB shall be assigned.
[OPEN] Checking with IANA. Go to email approval.

Will be updated depending on the outcome of the email approval. It will then be presented to the next CN plenary.

DISCUSSION: Addition of two additional
- Session modification handling
- Optimization of GGSN procedures

RESULT: The document was **REVISED to 0734.**

? **REVISED?**

N3-020734 **Open issues for TS29.207, source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the REVISED open issues list for TS 29.207 (at end of CN3#24 meeting)
To be provided on the CN3 email exploder for information next week.
This will be revised following the outcome of the email approval of CRs presented to this meeting. The revised document (N3-020735) will be provided to CN plenary.

RESULT: The document was **PROVIDED BY EMAIL.**

END RESULT: The document was **NOTED.**

N3-020530 **DiffServ Function in 29.207 source Nortel Networks.**

RESULT: The document was **REPLACED by 0586 before presentation.**

? **REVISED?**

N3-020586 **DiffServ Function in 29.207 source Nortel Networks.**

Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

END RESULT: The document was **WITHDRAWN [Some Content merged into 0745].**

N3-020533 **CR 29.207: 3GPP PIB dependencies on Framework PIB, source Nortel Networks.**

RESULT: The document was **WITHDRAWN.**

N3-020534 **CR 29.207: Importing of Filters from Framework PIB source Nortel Networks.**

RESULT: The document was **WITHDRAWN.**

N3-020535 **CR 29.207: Reference [11] update source Nortel Networks.**

Placed on email approval until 23/08/02. To be provided to be CN3 email exploder before 21/08/02. End of comments on 21/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

END RESULT: The document was **WITHDRAWN**

N3-020536 **CR 29.207: IANA number for PIB Nortel Networks**

Placed on email approval until 23/08/02. To be provided to be CN3 email exploder before 21/08/02. End of comments on 21/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

END RESULT: The document was **WITHDRAWN**

N3-020537 **CR 29.207: Revision to the 3GPP Go PIB, source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

CONTENT: Contains a reworking of the Go PIB

DISCUSSION: Problem with referencing the present revision numbers of specifications.

Also changes to text approved in this meeting need to be reflected in the revised version of the PIB.

Addition of new Error codes may or may not be accepted as exiting functionality.

The failure reasons per flow id were removed from this document.

The error cases need to be aligned with the text in 29.207.

The wording of the note relating to syntax was modified.

Several points were discusses in an offline session.

RESULT: The document was **REVISED to 0677.**

? **REVISED?**

N3-020677 **CR 29.207: Revision to the 3GPP Go PIB, source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

RESULT: The document was **AGREED**

N3-020678 **CR 29.207, source Nortel Networks.**

RESULT: The document was **WITHDRAWN.**

N3-020575 **CR 29.207: Go related error codes to UE, source Nokia.** Presented by Juha Räsänen of Nokia

CONTENT: The CR specifies Go related error codes and their usage Go related error codes and their usage.

DISCUSSION: Ericsson preferred a slightly different title for new ANNEX C and proposed some more generic text. A number of minor issues were examined in an offline session.

RESULT: The document was **REVISED to 0679.**

? **REVISED?**

N3-020679 **CR 29.207: Go related error codes to UE, source Nokia.** Presented by Juha Räsänen of Nokia

DISCUSSION: NOTE: Rejection case has been removed by another CR - hence the introduction text in this document will not exist.

RESULT: The document was **AGREED.**

SUMMARY OF DIFFSERV STATUS IN CN3.

Agreement could not be met for the Nortel CRs on Diffserv because certain companies felt the solution was incomplete regarding missing charging issues.

The Diffserv issue was put on email approval until 23/08/02. Two sets of CRs were provided, one including Diffserv - the other without Diffserv. Depending on the outcome of the email approval only one solution will be taken to the next CN plenary (by CN3).

INDIVIDUAL CONCERNS FROM COMPANIES:

NOKIA:- Nokia's concerns on the proposed CRs related to Dynamic Configuration of the DiffServ edge from the PCF by Nortel:

- Nokia disagrees that the proposed IP BS functionalities in the user plane are not related to the UMTS BS layer functions. We believe that in the GGSN the overlapping functionalities at the IP BS and UMTS layers shall be avoided.
- The dynamic configuration of the DiffServ marking function by the PCF doesn't bring real additional benefits compared to already available operator's configuration option to mark the packets using operator configuration rules (On the downlink direction, all IP flows in one PDP context are treated in the same way depending on the UMTS bearer parameters. On the uplink direction, there is no sense of re-marking and potentially downgrading the QoS of an IP flow, which was been already treated with higher QoS at the UMTS bearer).
- Additionally, in the uplink direction when the packets have already been handled by the UMTS bearer and passed through the radio link, thus it is not wise to discard them at the IP BS manager in the GGSN.
- Consequently, if the IP packets are dropped (policed) or re-marked based on actions configured by the PCF then the question on how this will be reflected in the charging records for the UE is an open issue. Does the UE need still to pay for these packets?
- In addition, the user plane actions, which Nortel proposed in the CRs are not aligned with the stage 2 specification 23.207 in particular. The marking action is not specified to be part of the possible PCF decision to the GGSN. Also the possible usage of dropping packets is stated as optional in the GGSN.
- One issue which was not presented in the CRs is how the dynamical DiffServ actions provided by the IMS interact with the DiffServ actions, which the UMTS operator can configure in the GGSN based on the network resource management. There can be contradicting policies coming from the PCF and the network management to the GGSN. If we aim to have IMS access independent then the IMS elements including PCF should not be aware of the network resources on the access layer.
- Additionally, Nokia supports the rest of the concerns raised at the meeting.

SIEMENS:-

Siemens concerns about the CRs by Nortel Networks proposing descriptions for the DiffServ edge functionality:

- The CRs introduce the DiffServ edge functionality on an IP flow bases. The control of misbehaving IP flows inside one PDP context was identified as the major gain of this functionality. Because of the possibility to use other means to achieve this control (influencing the source, movement of such a flow into a separate PDP context) the actual gain seems not justify the efforts in specification and implementation work.
- As the complete concept of the e2e bearer service is not part of Release 5 (only the UMTS bearer service and some interworking at the Gi are described) it is very difficult to predict future interactions between the DiffServ edge functionality and the e2e bearer service.
- As the complete concept of the e2e bearer service is not part of Release 5 there are no standardized means available to correlate the impacts/actions of the proposed DiffServ edge functionality on the QoS of the e2e bearer service. As the operator cannot fulfill specified QoS attributes it has to provide information on the actual available QoS to the end user.
- The impacts on charging have to be studied. The whole concept of charging on an IP flow basis is not yet described for 3GPP by SA5. Furthermore, if the DiffServ edge function discards packets which were already transferred via the air interface the user has to pay for consumed bandwidth although the packets were discarded.
- As long as there is the complete IP 5 tuple is not available in the PCF there is the danger that the packet classifiers are not setup in a way that they uniquely identify an IP flow. The consequence would be that IP packets of certain flows cannot be differentiated. Therefore, a metering function would discard a lot of packets which where otherwise transferred via the PDP context.

- ERICSSON** The following are Ericsson's comments to the contributions on the dynamic control of DS control over Go.
- There are no counters/statistics specified for the DS edge function, and the DS parameters are not recorded. Without this information, how does the operator know the actual QoS that has been delivered to the customer for that flow, and whether they are meeting their service obligations?
 - What is the impact on the service characteristics for an IP flow between operators when only one of these operators is using this per flow control, or the two operators are using different flow parameters? Considering the different possible scenarios of home and visited operators, how is the user experience affected compared to the home network only scenario where the one policy would be applied?
 - Ericsson also supports the concerns raised by Nokia and Siemens related to the benefits/effects of this function for traffic which has already been transmitted over the radio interface, and the effects of wildcarded information.

CISCO: Want MARKING to be made optional.

N3-020584 **CR 29.207: Clarification of Go interaction with Diffserv (GGSN Diffserv function interactions) , source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

CONTENT: A discussion document that attempts to satisfy the second condition set by SA2 for the inclusion of elements to control GGSN Diffserv functions using the Go interface in release 5.

DISCUSSION: Nokia commented that Diffserv marking on downlink should be avoided as it already exists on the UMTS layer.

Louis [Nortel] stated that marking is of use if Diffserv is used on the external connected network. It is different than UMTS marking and had additional functionality.

This solution allows the control of QoS at the IP flow level. However this is done within the standard UMTS QoS limits. It adds an extra level of 'fine tuning' for the QoS. This allows for the handling of misbehaving IP that may be contained in a single PDP context.

Nokia felt the "misbehaving flows" should be handled at the application level in the UE. Such flows should be separated into a single PDP context.

Nortel stated that this additional control will only effect specific identified flows. It will allow additional operator control of QoS in the IP flows.

Ericsson asked how you know what the effect of the QoS variations are when the Diffserv is used - what measurements are taken (packets dropped etc). Louis replied that this is covered by the 'meter' function. It is not proposed to add the shaping function in the GGSN. Ericsson believe that although Diffserv provides the configuring function it does not allow for monitoring the actual performance on the QoS that is received end to end. Because of this reason Ericsson felt the first condition from SA2 has not been met.

Hatef Yamini [H3G] suggested that this additional QoS control at the IP level will only improve the situation for operators with regards to QoS when roaming to a visited network.

Duncan Mills [Vodafone] said that having a complete record of the QoS for ever packet flow is not an essential function. This is not presently done for CS calls.

Mirko stated that Siemens supports the 1st modification that clarifies the difference in marking at the Gi interface and the marking at the UMTS. However Siemens have some problems with the second change.

Nokia asked how the user will be charged when he experiences a low QoS due to dropped packets or similar.

AWS supported the Nortel solution.

Nortel feel they can resolve the measuring / charging issue in the Rel-5 timescale.

The whole Diffserv issue was placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL**.

END RESULT: The document was **WITHDRAWN [Some content merged in 0745]**.

N3-020585 **GGSN Diffserv function descriptions, source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

CONTENT: The contribution attempts to satisfy the second condition set by SA2 for the inclusion of elements to control GGSN Diffserv functions using the Go interface in release 5,

DISCUSSION: Ralitsa [Nokia] wished to see a clear description of "Packet handling action". This action is sent from PCF to GGSN. Louis replied that this action is provided in the CR [N3-020586].

Ericsson still have a concern that the setting of the QoS parameters END TO END are not measured and it is not possible to record what QoS was provided on a call. Nortel feel the METER function in Diffserv satisfies this purpose.

Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL**.

END RESULT: The document was **NOTED [Discussion Paper]**.

N3-020587 **CR 29.207: More clarifications on Diffserv Function, source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

DISCUSSION: Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL**.

END RESULT: The document was **REVISED to 0745**

? REVISED?

N3-020745 **CR 29.207: More clarifications on Diffserv Function, source Nortel Networks.** Presented by Louis-Nicolas Hamer of Nortel.

DISCUSSION: Placed on email approval until 24/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL**.

END RESULT: The document was **REJECTED**

N3-020591 **CR 29.207: More GGSN Diffserv function interactions, source Nortel Networks.**

RESULT: The document was **WITHDRAWN**

N3-020592 **CR 29.207: PIB Classifiers, source Nortel Networks.**

RESULT: The document was **WITHDRAWN**

N3-020593 **CR 29.207: Initialization and maintenance / Security considerations.** Presented by Louis-Nicolas Hamer of Nortel.

CONTENT: Section 4.3.1.2 & 4.3.2.2 of TS.29.207 are empty. This contribution proposes some text for these sections. Basically, the appropriate RFC is referenced.

Furthermore, the security consideration section is currently misplaced in the 3GPP Go PIB (Annex B). This section is moved to a proposed section 6.5.

DISCUSSION: After some discussion it was decided to include a reference to the security mechanisms within COPS RTP. However it is the operators choice to use the security mechanisms that are outside of the COPS RFC.

RESULT: The document was **REVISED to 0686**

? REVISED?

N3-020686 **CR 29.207: Initialization and maintenance / Security considerations.** Presented by Louis-Nicolas Hamer of Nortel.

RESULT: The document was **AGREED**.

N3-020594 **CR 29.207: <<NO TITLE>>, source Nortel Networks.**

RESULT: The document was **WITHDRAWN**.

N3-020595 **Identification of Source IP addresses over the Go interface, source AWS.**
Presented by Steve Dutnall of AWS.

CONTENT: This contribution discusses the support of source address filtering over the Go interface and Mobile IP handling in SBLP. the document attempts to answer some of the questions raised in the LS from SA2 on this issue.

DISCUSSION: Mirko Schramm [Siemens] did not agree with the AWS view on problems in Mobile IPv6. The proposed solution only works for bi-directional links.

AWS are presenting this contribution as a basis for discussion.

One thing that AWS want out of this discussion in that the handling for external clients using Mobile IPv6 is handled in the interworking to IP networks currently identified in CN3 for Release 6.

It was noted that the CRs proposed by AWS for the stage 3 correspond to the Stage 2 CR contained in the LS from SA2 [N3-020560]. The SA2 CR has not been agreed as more expertise is required on Mobile IPv6 to resolve this issue.

The corresponding CN1 CR is contained in the LS [N3-020684].

RESULT: The document was **NOTED**.

N3-020596 **CR 29.207: Source Address filtering over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

CONTENT: Attempts to resolve the issue of the lack of source address information available to the nodes enforcing service based local policy.

DISCUSSION: Provided to v2.0.0 of 29.207[incorrect].

This CR is in line with the SA2 CR. It also provides additional flexibility to the solution provided by SA2.

Also this does not include the information received from CN1 in their LS.

Mirko Schramm [Siemens] had concerns about the use of mobile IPv6 source address. There was also a contentious issue with the UE being allowed to set the TFT on the foreign address. AWS and Siemens did not reach agreement in the meeting.

Steve took the CR away to include the information provided by CN1, and also attempt to clarify the concerns raised by Siemens.

Steve suggested sending a LS back to SA2 describing CN3s work progress and assumptions on this issue [N3-020699].

RESULT: The document was **REVISED to 0698**.

? REVISED?

N3-020698 **CR 29.207: Source Address filtering over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

DISCUSSION: Issue raised in this CR is dependent on response from SA2 in relation to the LS

Nokia proposed some minor changes to text.

RESULT: The document was **REVISED to 0731**.

? REVISED?

N3-020731 **CR 29.207: Source Address filtering over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

DISCUSSION: This CR can be agreed on the condition [Related CR is approved in SA and a positive response it received from SA2 in reply to our LS]. Steve Dutnall will inform DAB [MCC] and Norbert when it happens

RESULT: The document was **CONDITIONALLY AGREED**.

N3-020699 **LS OUT to SA2 on Proposed solutions for the identification of source IP address information over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

CONTENT: In this LS CN3 asks SA2 to consider the proposed CR to 23.207 CR 40 rev 2 for Release 5

DISCUSSION: Add **ACTION:** SA2 to inform CN3 of the outcome of their email approval of the related CR.

Some minor editorials were proposed to the SA2 CR.

RESULT: The document was **REVISED to 0732**.

? REVISED?

N3-020732 **LS OUT to SA2 on Proposed solutions for the identification of source IP address information over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

DISCUSSION: Some editorial modifications were made to the text.

RESULT: The document was **REVISED to 0738**.

? REVISED?

N3-020738 **LS OUT to SA2 on Proposed solutions for the identification of source IP address information over the Go interface, source AWS.** Presented by Steve Dutnall of AWS.

RESULT: The document was **APPROVED**.

N3-020603 **CR 29.207: Editorial improvements in the specification, source Ericsson.** Presented by Brian Williams of Ericsson.

CONTENT: The CR provides various editorial improvements throughout (wording changes, grammar)

DISCUSSION: There was some suggestions for improvements. These were developed in an off-line drafting session to the CR.

The overlap with other CRs to 29.207 needs to be removed

RESULT: The document was **REVISED to 0687**.

? REVISED?

N3-020687 **CR 29.207: Editorial improvements in the specification, source Ericsson.** Presented by Brian Williams of Ericsson.

DISCUSSION: Reidar Ericsson [Ericsson] wished the SIP/SDP signaling be used instead of SIP signaling in the figure.

RESULT: The document was **REVISED to 0715**.

? REVISED?

N3-020715 **CR 29.207: Editorial improvements in the specification, source Ericsson.** Presented by Brian Williams of Ericsson.

RESULT: The document was **AGREED**.

- N3-020604** **CR 29.207: Validating binding information against the UE, source Ericsson.** Presented by Brian Williams of Ericsson.
- CONTENT:** The CR proposes a solution for the prevention of possible fraud scenario by the GGSN including the UE IP address and prefix to the PCF which can validate it against the IP address involved in the session.
- DISCUSSION:** A number of changes were proposed that were developed in an off-line drafting session. Unfortunately the alternative solutions could not be presented / agreed offline (due to lack of time).
- RESULT:** The document was **WITHDRAWN**.
- N3-020605** **CR 29.207: Remove incomplete functions, source Ericsson.** Presented by Brian Williams of Ericsson.
- CONTENT:** Remove chapters on incomplete functions for Go control of DS and RSVP
- DISCUSSION:** Relates to the Diffserv issue that is to be discussed by email. Also includes the RSVP issue.
- Depending on the decisions from the Diffserv decision (in or out), this contribution will need to be modified.
- Two alternative versions of this CR will be sent to email approval with the same timescale as the Diffserv CRs. (end date for email approval 23.08.02).
- This CR was modified to remove the Diffserv issue. The Diffserv issue is contained in a new CR [N3-020726]
- RESULT:** The document was **REVISED to 0725**.
- ? **REVISED?**
- N3-020725** **CR 29.207: Remove DS function, source Ericsson.** Presented by Brian Williams of Ericsson.
- DISCUSSION:** Placed on email approval until 23/08/02.
- RESULT:** The document was **PLACED ON EMAIL APPROVAL**.
- END RESULT:** The document was **AGREED**
- N3-020726** **CR 29.207: Remove RSVP function, source Ericsson.** Presented by Brian Williams of Ericsson.
- RESULT:** The document was **AGREED**.
- N3-020606** **CR 29.207: Align TS 29.207 with TS 23.207 changes according to contribution S2-022001, source Ericsson.** Presented by Brian Williams of Ericsson.
- CONTENT:** The CR makes the following changes. Packet processing against SBLP supplied filters shall be applied before the packet is processed against UE supplied filters. The UE supplied TFT shall be ignored when binding information is provided.
- DISCUSSION:** Several comments were made that the secretary blatantly missed due to complexity of the discussions. However, they will be incorporated into the revised CR.
- RESULT:** The document was **REVISED to 0676**.
- ? **REVISED?**
- N3-020676** **CR 29.207: Align TS 29.207 with TS 23.207 changes according to contribution S2-022001, source Ericsson.** Presented by Brian Williams of Ericsson.
- RESULT:** The document was **AGREED**.

N3-020607 **CR 29.207: Removal of Annex A, source Ericsson.** Presented by Brian Williams of Ericsson.

DISCUSSION: Related to CR in N3-020675.

RESULT: The document was **AGREED**.

N3-020618 **CR 29.207: On the derivation of flow identifiers from SDP, source Ericsson.** Presented by Ragnar Huslende of Ericsson.

CONTENT: The CRs show how the flow identifiers shall be derived from SDP in the general case where a series of port numbers are specified for a media component.

DISCUSSION: Mirko Schramm [Siemens] thought the more general description could be placed elsewhere in the specification. It was agreed to take the two examples to an annex

RESULT: The document was **REVISED to 0690**.

? **REVISED?**

N3-020690 **CR 29.207: Derivation of flow identifiers from SDP, source Ericsson.** Presented by Ragnar Huslende of Ericsson.

RESULT: The document was **AGREED**.

N3-020622 **CR 29.207 Rel-5 : Revoke Authorization Procedure, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: Upon session release the PCF sends the revoke QoS authorization decision to the GGSN within an operator specific time. The GGSN initiates the PDP context deactivation without any further delay.

DISCUSSION: Nokia and H3G had concerns about the practical use of the timer. However there was no formal objection to the CR.

RESULT: The document was **AGREED**.

N3-020623 **CR 29.207: Message Descriptions, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: The CR updates the description of the messages for the Go interface to reflect the current status of the 3GPP Go PIB.

DISCUSSION: Louis-Nicolas Hamer [Nortel] suggested a minor formatting change relating to the ICID. There were some minor issues that were taken in an offline session. Also the overlap with the Ericsson CR to the same area needs to be removed.

RESULT: The document was **REVISED to 0695**.

? **REVISED?**

N3-020695 **CR 29.207: Message Descriptions, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Nortel asked that the term "**shall** be allowed" be changed to "**should** be allowed".

RESULT: The document was **REVISED to 0727**.

? **REVISED?**

N3-020727 **CR 29.207: Message Descriptions, , source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED**.

N3-020624 **CR 29.207: User Plane Operation, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: The CR adds some text to section 5.1.4 User plane operation of the GGSN. The actions performed by the GGSN are described upon a receipt of a gate decision from the PCF namely the opening or closing of the identified gates.

DISCUSSION: Ericsson proposed moving this text to a new chapter.

RESULT: The document was **REVISED to 0702.**

? **REVISED?**

N3-020702 **CR 29.207: User Plane Operation, source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020625 **CR 29.207: SBLP Gate Decision, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: This CR adds a new section "5.1.2.3 SBLP gate decision" to describe the usage of this decision message.

DISCUSSION: Editorial changes to the text.

RESULT: The document was **REVISED to 0696.**

? **REVISED?**

N3-020696 **CR 29.207: SBLP Gate Decision, source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020650 **CR 29.207: GGSN inspection of the tokenNortel Networks**

RESULT: The document was **REVISED to 0651 before presentation.**

? **REVISED?**

N3-020651 **CR 29.207: GGSN inspection of the token, source Nortel Networks.** Presented by Louis-Nicolas Hamer or Nortel.

CONTENT: The CR provides the necessary changes to 29.207 for optimization of GGSN procedures and to enable future interoperability.

DISCUSSION: Note part of this change has now been covered in another CR from Ericsson [N3-020603]. This and various other issues were discussed in an off-line session.

RESULT: The document was **REVISED to 0697.**

? **REVISED?**

N3-020697 **CR 29.207: GGSN inspection of the token, source Nortel Networks.** Presented by Louis-Nicolas Hamer or Nortel.

DISCUSSION: Brian Williams [Ericsson] had some problems with the discussion document that is contained in the zip pack.

Ericsson wanted the condition added when there is only there is only one PCF in the PLMN. There are incompatibilities between the discussion document and the CR.

RESULT: The document was **REVISED to 0714.**

? **REVISED?**

N3-020714 **CR 29.207: GGSN inspection of the token, source Nortel Networks.** Presented by Louis-Nicolas Hamer or Nortel.

DISCUSSION: Nokia asked for more time in order to study this new rule on optimizations on the GGSN. Expertise may be required from groups outside of CN3.

Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL**.

NOTE: Nortel believes rejecting the CR constrains the design of R6 policy enhancements, if backwards compatibility with a Rel-5 GGSN is required. Therefore, the decision to reject the CR must be on the basis that such backwards compatibility for Rel-6 is not be a requirement

END RESULT: The document was **REJECTED**.

N3-020708 CR to 29.207: " R-Type and M-Type for Authorization_Failure event", source Lucent Technologies (Rapporteur). Presented by Daisuke Yokota of Lucent.

RESULT: The document was **AGREED**.

9.1.3 29.208

N3-020570 **TS29.208, Version 2.0.0 [NP-020166], source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

DISCUSSION: There was some suggestion for adding more details to 29.208. However care must be taken to avoid overlap with 23.207 (stage 2).

Mirko Schramm [Siemens] stated that a lot of the information contained in Stage 2 is also contained in stage 3.

RESULT: The document was **NOTED**.

N3-020571 **Open issues for TS29.208, Version 2.0.0 [NP-020306] , source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the open issues list for TS 29.208(at NP#16).

- Resource reservation flows with end-to-end RSVP interactions are missing (section 5.2).

DISCUSSION: The list is missing:-

- the QoS table updates
- mappings of UE specific parameters.
- forking
- alignment of stage 2 and stage 3.

RESULT: The document was **REVISED to 0704**.

? **REVISED?**

N3-020704 **Open issues for TS29.208, source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the open issues list for TS 29.208 at the end of CN3#24.

13. Resource reservation flows with end-to-end RSVP interactions are missing (section 5.2).
[CLOSED] by TS29.208 CR008r1 (N3-020711).
14. The mapping of authorized data rate into UMTS QoS bit rate parameter has to be decided (section 7, related to an open issue for TS29.207).
[CLOSED] by TS29.208 CR006r1 (N3-020674).
15. Support for forking shall be considered. (new requirement added to TS23.228 by a CR agreed at SA#16)
[OPEN] Delegates need time for study. Go to email approval.
16. Further clarification is required if the SDP b=AS:<bandwidth> parameter includes the bandwidth for RTCP.
[OPEN] Checking with SA4 via LS.
17. QoS mapping function shall have more clarity so that the functional split of UE can be considered.
[OPEN] To be solved at CN3 #25.

DISCUSSION: The items outside of the Rel-5 timeframe need to be removed.

A revised version will be provided on the CN3 email exploder for information next week.

RESULT: The document was **REVISED to 0736**.

? **REVISED?**

N3-020736 **Open issues for TS29.208, source Lucent Technologies (Rapporteur).** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the REVISED open issues list for TS 29.208 (at end of CN3#24 meeting)

To be provided on the CN3 email exploder for information next week.

This will be revised following the outcome of the email approval of CRs presented to this meeting. The revised document (**N3-020737**) will be provided to CN plenary.

RESULT: The document was **PROVIDED BY EMAIL.**

END RESULT: The document was **NOTED.**

N3-020626 CR 29.208: QoS Parameter Mapping between IMS and GPRS, source Siemens. Presented by Mirko Schramm of Siemens.

CONTENT: The CR updates the section on the QoS parameter mapping in order to correct some statements especially about the mapping functionality inside the UE.

DISCUSSION: Reidar Ericsson [Ericsson] said we should not mention the UE split in the text.

Ralitsa [Nokia] added that CN3 are not the correct group to define the functionality contained within UE (should be T2). Also the stage 2 does not describe the mapping functionality in the UE.

Mirko [Siemens] said it is useful to show the mappings of functionalities contained in the UE to the bearer services.

Ericsson and Nokia have concerns about specifying the actions to be performed by application part within the UE.

Mirko suggested renaming the "APPLICATION" box within the UE to another more generic name.

RESULT: The document was **REVISED to 0705.**

? **REVISED?**

N3-020705 CR 29.208: QoS Parameter Mapping between IMS and GPRS, source Siemens. Presented by Mirko Schramm of Siemens.

DISCUSSION: More time needed. Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

RESULT: The document was **REVISED to 0743.**

? **REVISED?**

N3-020743 CR 29.208: QoS Parameter Mapping between IMS and GPRS.

END RESULT: The document was **AGREED.**

N3-020627 CR 29.208: Data Rate Mapping in the PCF, source Siemens. Presented by Mirko Schramm of Siemens.

CONTENT: The CR provides updates to the mapping table in 29.208.

DISCUSSION: Ericsson had a proposal to change the functionality and therefore SA2 need to be informed. There is a discussion ongoing in SA4 on the use of CODEC information. This will have an impact on this area of work.

Juha [Nokia] stated the CR is lacking the definition of how to derive the max/guaranteed bit rates.

Also the Siemens proposal changes the different ways the RTCP overhead is interpreted by the UE and the network.

Hatef Yamini [H3G] generally supported the CR but pointed out that an operator configurable parameter for unidirectional flows for RTCP should be added Mirko agreed this could be done.

Mirko proposed to remove the text related to the RTP/RTCP overhead.

SA4 has clearly indicated that the overhead is not carried in the bandwidth

Mirko quoted some text from the original IETF RFC that contradicts this, and proposed sending a LS to SA4 asking for guidance.

CN3 could not agree on the issue and needs guidance from SA4.

RESULT: The document was **REVISED to 0709.**

? **REVISED?**

N3-020709 **CR 29.208: Data Rate Mapping in the PCF, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Ericsson had some comments to the change and requested more time to study the change.

RESULT: The document was **REVISED to 0728.**

? **REVISED?**

N3-020728 **CR 29.208: Data Rate Mapping in the PCF, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

RESULT: The document was **REVISED to 0744.**

? **REVISED?**

N3-020744 **CR 29.208: Data Rate Mapping in the PCF, source Siemens.**

END RESULT: The document was **AGREED.**

N3-020723 **LS OUT on "LS on RTCP overhead in SDP bandwidth parameter".** Presented by Mirko Schramm of Siemens.

DISCUSSION: There were concerns about the detail of the background information in the LS. Proposed to make it shorter (for easy reading). Also remove the detailed description of the advantages (if not we need to list all of the disadvantages).

The LS does did not reflect the entire CN3 view.

Nokia believed that this discussion needs to be carried out in SA4, and Siemens should make a contribution to that meeting.

The content of the LS was modified to reflect the views and wished of CN3.

RESULT: The document was **REVISED to 0733.**

? **REVISED?**

N3-020733 **LS OUT on "LS on RTCP overhead in SDP bandwidth parameter".** Presented by Mirko Schramm of Siemens.

DISCUSSION: Placed on email approval until 23/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

END RESULT: The document was **APPROVED.**

N3-020628 **Service Class Mapping, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: This contribution identifies some points of incorrectness and insufficiency of the service class mapping tables as currently specified. To overcome this situation two solutions are proposed. Siemens are willing to provide a CR for TS 29.208 V5.0.0 to add the agreed mapping table.

DISCUSSION: Nortel and Ericsson preferred the solution A. The meeting decided to go with the solution A.

RESULT: The document was **NOTED.**

N3-020629 **CR 29.208: Service Class Mapping in the PCF, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Hatef Yamini [H3G] stated that we do not really limit the Authorized the traffic class, we seem to let the traffic go to the highest available. Thomas Belling [Siemens] replied that this is a compromise solution in order to be future proof and allow for future applications.

Mirko [Siemens] added that the operator can influence the used bandwidth with the used of the Operator configurable limitation of the bandwidth.

Stephen Duttall [AWS] saw a contentious issue with different traffic types either reserving dedicated radio resources or not.

Ericsson suggested that the UE be allowed to set traffic values. H3G could not agree to this as they do not want the UE to be able to decide on the traffic

RESULT: The document was **REVISED to 0710**

? **REVISED?**

N3-020710 **CR 29.208: Service Class Mapping in the PCF, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Ericsson had some issues with the changes to the mapping tables. Siemens agreed to make the corresponding changes to the text.

Ericsson proposed removing the new text on Max. Authorized traffic class.

H3G repeated that they want the requested UMTS QoS parameter traffic class NOT to be always set to the Maximum Authorized Traffic Class.

The text was modified to be slightly clearer.

Also the usage of 'it was recommended' needed to be replaced by 3GPP friendly terms.

RESULT: The document was **REVISED to 0717**

? **REVISED?**

N3-020717 **CR 29.208: Service Class Mapping in the PCF, source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020633 **CR 29.208: Correction of Reference [6] , source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020691 **CR to 29.208: " Removal of incomplete function ", source Lucent Technologies**
Presented by Daisuke Yokota of Lucent.

DISCUSSION: Nokia proposed deleting 'without end to end RSVP from figure 5.1

RESULT: The document was **REVISED to 0711**

? **REVISED?**

N3-020711 **CR to 29.208: " Removal of incomplete function ", source Lucent Technologies**
Presented by Daisuke Yokota of Lucent.

RESULT: The document was **AGREED.**

N3-020724 **LS OUT to SA2 on RTP / RTCP split for release 5 , source CN3.** Presented by Hatef Yamini of H3G.

This LS asks SA2 for clarification the reasons for restricting the RTP/RTCP to be carried within the same PDP context for Rel-5. CN3 believe there is a workable solution available for Rel-5.

DISCUSSION: Norbert prefers to bring this open issue to be raised at CN plenary.
Norbert requested that we clearly identify the missing parts within the stage 2 specification.
Nokia did not feel that this functionality can be included in the Rel-5 timescale.

RESULT: The document was **REVISED to 0730**

? **REVISED?**

N3-020730 LS OUT to SA2 on RTP / RTCP split for release 5 , source CN3.

Placed on email approval until 09/08/02. To be provided to be CN3 email exploder by 05/08/02. End of comments on 08/08/02.

RESULT: The document was **PLACED ON EMAIL APPROVAL.**

RESULT: The document was **REVISED to 0741.**

? **REVISED?**

N3-020741 LS OUT to SA2 on RTP / RTCP split for release 5, source CN3.

END RESULT: The document was **APPROVED.**

9.2 Service change and UDI fall back

No input to this agenda item.

9.3 Technical Enhancements & Improvements (TEI)

N3-020531 CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson.

RESULT: The document was **WITHDRAWN.**

N3-020608 CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson.

RESULT: The document was **REVISED to 0652 before presentation.**

? **REVISED?**

N3-020652 CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson. Presented by Brian Williams of Ericsson.

CONTENT: This CR adds a new clause 13a, describing Packet Domain interworking with a IMS-PDN. References and abbreviations added in clause 2 and 3.

DISCUSSION: Support of DHCPv6 by the UE is optional. This is not reflected in this contribution.
Some other minor changes to the wording were suggested by Mirko Schramm [Siemens]. The final text was formulated in an offline session.

RESULT: The document was **REVISED to 0667.**

? **REVISED?**

N3-020667 CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson. Presented by Brian Williams of Ericsson.

DISCUSSION: Suggested aligning text relating to handling with the Nokia CR.

RESULT: The document was **REVISED to 0701.**

? **REVISED?**

N3-020701 CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson. Presented by Brian Williams of Ericsson.

DISCUSSION: There was some concerns on the terminology relating to " The GGSN may also support dedicated signalling PDP Contexts ". It was requested to add some text explaining that is operational configurable.

RESULT: The document was **REVISED to 0716**.

? **REVISED?**

N3-020716 **CR 29.061: Actions within the GGSN for IMS parameters sent in PDP context activation, source Ericsson.** Presented by Brian Williams of Ericsson.

RESULT: The document was **AGREED**.

N3-020609 **CR 29.061: Configuration of Domain Name System (DNS) server IPv6 addresses, source Ericsson.**

RESULT: The document was **REVISED to 0653 before presentation**.

? **REVISED?**

N3-020653 **CR 29.061: Configuration of Domain Name System (DNS) server IPv6 addresses source Ericsson.** Presented by Brian Williams of Ericsson.

CONTENT: Introduces the possibility of dynamic configuration of Domain Name System (DNS) server IPV6 addresses via existing Session Management procedures by use of the protocol Configuration Options IE.

DISCUSSION: Reference to [43] needs to be deleted from step 6.

RESULT: The document was **REVISED to 0688**.

? **REVISED?**

N3-020688 **CR 29.061: Configuration of Domain Name System (DNS) server IPv6 addresses, source Ericsson.** Presented by Brian Williams of Ericsson.

RESULT: The document was **AGREED**.

N3-020610 **CR 27.060: Configuration of Domain Name System (DNS) server IPv6 addresses, source Ericsson.**

RESULT: The document was **REVISED to 0654 before presentation**.

? **REVISED?**

N3-020654 **CR 27.060: Configuration of Domain Name System (DNS) server IPv6 addresses, source Ericsson.** Presented by Brian Williams of Ericsson.

CONTENT: Introduces the possibility of dynamic configuration of Domain Name System (DNS) server IPV6 addresses via existing Session Management procedures by use of the protocol Configuration Options IE.

DISCUSSION: Laurent Andriantsiferana [Cisco] had concerns that this solution does not work with split terminal (such as phone + PC). Ericsson replied that this provides a solution for the single UE and split terminals may use another method to resolve this issue. It was suggested to add a note to the text to reflect this.

RESULT: The document was **REVISED to 0669**.

? **REVISED?**

N3-020669 **CR 27.060: Configuration of Domain Name System (DNS) server IPv6 addresses, source Ericsson.** Presented by Brian Williams of Ericsson.

RESULT: The document was **AGREED**.

N3-020637 **IPv6 DNS configuration for MS, source Cisco.** Presented by Laurent Andriantsiferana of Cisco.

CONTENT: This contribution proposes to solve the following important issue. A MS using IPv6 PDP type can have its IPv6 address configured via several mechanisms: stateless address autoconfiguration, DHCPv6, RADIUS, etc. This configuration only provides packet-level connectivity, however most of the applications will require information about DNS services to make use of the basic IPv6 services. CRs are expected to the next meeting to update this.

TS 29.061 only specifies the use of DHCPv6 to configure a MS with DNS server addresses. If stateless auto-configuration or RADIUS are used to allocate the MS IPv6 address, it is not specified how DNS IPv6 server addresses can be configured in the MS.

DISCUSSION: DHCPv6 IETF draft is planned for RFC status in August 2002. DHCPv6 light will be available at the same time.

Hatef Yamini [H3G] stated that although the UE split is not a part of Rel5, it will be a requirement for Rel-6. He suggested choosing a solution that is as far as reasonable future proof.

RESULT: The document was **NOTED**.

N3-020532 CR 29.007: Determining the basic service for MT calls, source Vodafone.

RESULT: The document was **REVISED to 0649 before presentation**.

? **REVISED?**

N3-020649 CR 29.007: Determining the basic service for MT calls, source Vodafone.
Presented by Nick Russell of Vodafone.

CONTENT: Add new subclause to define the behavior of the VLR in determining the basic service for an MT call.

DISCUSSION: Juha Räsänen [Nokia] asked why Vodafone have completely re-structured the complicated information contained in the tables. He believes that this change reflect one manufacturers view of the current implementations. Juha would prefer that the change is simply added to the table in the existing format.

Norbert Klehn [Siemens] stated that it took Siemens specialists over one week to check the text. During this check over 10 errors were found in the change (which have now been corrected in this version). It was hi-lighted that checking these formatting changes take a considerable amount of time

Nick [Vodafone] stated that the purpose of this major change is to remove the existing ambiguities that have resulted in differing implementations of the specification.

It was preferred to take the individual ambiguities one by one and correct them in the existing format. There was no support for changing the existing text to a table format.

Also the in-line comments need to be removed from the revised version.

RESULT: The document was **REVISED to 0670**.

? **REVISED?**

N3-020670 CR 29.007: Determining the basic service for MT calls, source Vodafone.
Presented by Dana Schneider of Vodafone.

DISCUSSION: Norbert Klehn [Siemens] asked how the VLR knows how many timeslots the visited MSC supports. A solution was proposed for the revised CR. Modification of the PLMN BC characteristics.

Also some editorial corrections required.

RESULT: The document was **REVISED to 0685**.

? **REVISED?**

N3-020685 CR 29.007: Determining the basic service for MT calls, source Vodafone.
Presented by Ian Park of Vodafone.

RESULT: The document was **AGREED**.

N3-020640 **Impact on the Network Architecture concerning the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN Iu mode, source Siemens AG.** Presented by Norbert Klehn of Siemens.

CONTENT: This contribution gives a summary of the Siemens investigation relating to the standardization of CS data services with HSCSD in GERAN Iu mode.

DISCUSSION: Ragnar Huslende [Ericsson] stated that some of the CRs were available quite late and more time may be needed to study the issue.

Siemens hopes to have agreement on the principles of the contribution in this meeting. If we can do this then a LS will be sent to SA2 and GERAN asking for their endorsement of this approach. If they endorse this approach then CN3 can proceed with the CRs. They are simply presented here for additional information.

Ericsson wish to have a solution that does not impact on the existing Iu mode functionality.

RESULT: The document was **NOTED**.

N3-020692 **LS OUT Proposal for the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN Iu mode, source Siemens AG.** Presented by Norbert Klehn of Siemens AG.

CONTENT: The LS replies to the LS(s) from GERAN and SA2 on User Plane for CS Data Services

DISCUSSION: It was noted that the action from CN1 depends on the outcome from SA2.

Steve Dutnall recommended highlighting CN3's recommendation on a clearer fashion to enable the message to be clear to the receiving groups).

RESULT: The document was **REVISED to 0739**

? **REVISED?**

N3-020739 **LS OUT Proposal for the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN Iu mode, source Siemens AG.** Presented by Norbert Klehn of Siemens AG.

RESULT: The document was placed on **EMAIL APPROVAL**.

RESULT: The document was **REVISED to 0740**

? **REVISED?**

N3-020740 **LS OUT Proposal for the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN Iu mode, source CN3.**

END RESULT: The document was **APPROVED**.

N3-020641 **Proposal for the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN Iu mode, source Siemens AG.** Presented by Norbert Klehn of Siemens AG.

DISCUSSION: Ericsson asked for some additional time to study these proposed changes

RESULT: The document was **AGREED**.

N3-020642 **CR 43.010: CS Data Services (including HSCSD and EDGE) for GERAN Iu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED**.

N3-020643 **CR 23.910: CS Data Services (including HSCSD and EDGE) for GERAN Iu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED**.

N3-020644 **CR 24.022: CS Data Services (including HSCSD and EDGE) for GERAN lu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED.**

N3-020645 **CR 29.007: CS Data Services (including HSCSD and EDGE) for GERAN lu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED.**

N3-020646 **CR 27.001: CS Data Services (including HSCSD and EDGE) for GERAN lu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED.**

N3-020647 **CR 44.021: CS Data Services (including HSCSD and EDGE) for GERAN lu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED.**

N3-020648 **CR 48.020: CS Data Services (including HSCSD and EDGE) for GERAN lu mode, source Siemens AG.** Presented by Thomas Belling of Siemens AG.

RESULT: The document was provided for info only - **NOTED.**

10 Release 6

10.1 Interworking between IM subsystem and IP

N3-020634 Updated TR on 3PP SIP Profile interworking, source Siemens AG. Presented by Thomas Belling of Siemens AG.

DISCUSSION: The TR has been updated to reflect the results of CN1 during the Budapest meeting. CN3 agrees that they need such a document.

Ericsson and Nokia had some concerns about whether this TR is required and needed some time to study the content.

It was decided not to request a number from MCC yet.

CN3 will discuss this on the email exploder in order to agree the structure.

RESULT: The document was **EMAIL discussion for 14 days.**

NOTE: Concerns were raised with the structure of the TR especially regarding some subchapters. Work should proceed with the proposed structure. It is difficult to discuss the structure of the TR completely separate from the contents.

END RESULT: The document was **NOTED.**

10.2 Interworking between IM Subsystem with CS

N3-020583 Updated version of TS 29.163 following CN#23, source Vodafone.

RESULT: The document was **WITHDRAWN.**

N3-020635 CR 29.163: Rename IMS Mc interface, source Siemens AG.

RESULT: The document was **WITHDRAWN.**

10.3 Interworking of CS UP between 3GPP and external networks

No input to this agenda item.

10.4 Other Rel-6 Work Items

N3-020580 WID for Release 6 commonality and interoperability between IMSs, source Lucent Technologies. Presented by Daisuke Yokota of Lucent.

CONTENT: This WID is being presented to all CN WGs in order to collect comments.

RESULT: The document was **REVISED to 0706.**

? **REVISED?**

N3-020706 WID for Release 6 commonality and interoperability between IMSs, source Lucent Technologies. Presented by Daisuke Yokota of Lucent.

CONTENT: Includes changed following comments from other CN groups.

RESULT: The document was **NOTED.**

N3-020581 Discussion of changes in revised WID for PRESNCE, source Lucent Technologies. Presented by Daisuke Yokota of Lucent.

CONTENT: This document discusses the PRESNC work item description and makes the following key proposals:

- That the existing CN1 WID is extended to cover all CN working groups.
- That the date for completion (functional freeze) is 6 months after the SA2 completion and therefore March 2003.

The revised version will contain changes suggested by other CN WGs.

RESULT: The document was **REVISED to 0707**.

? **REVISED?**

N3-020707 **Discussion of changes in revised WID for PRESNCE, source Lucent Technologies.** Presented by Daisuke Yokota of Lucent.

CONTENT: Includes changed following comments from other CN groups.

RESULT: The document was **NOTED**.

N3-020582 **Revised WID for PRESNCE source Lucent Technologies.** Presented by Daisuke Yokota of Lucent.

CONTENT: This WID is being presented to all CN WGs in order to collect comments.

DISCUSSION: Impact on CN3 is mainly on the Pk interface.(GGSN and network agent).

The revised version will contain changes suggested by other CN WGs.

RESULT: The document was **REVISED to 0707**.

? **REVISED?**

N3-020707 **Revised WID for PRESNCE source Lucent Technologies.** Presented by Daisuke Yokota of Lucent.

RESULT: The document was **NOTED**.

11 Joint sessions

No joint sessions were held during this meeting.

12 Work Organization

12.1 Work Plan Review

N3-020543: **3GPP Project Plan, source MCC.** Presented by David Boswarthick of MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#16 plenary including several updates from WGs.

DISCUSSION: Discussed and edited on line - Will be presented to CN#17 as the status of work progress in CN3.

RESULT: The document was **NOTED**.

12.2 Specification Review

N3-020544 **Status of CN3 specifications following SA#16, source MCC.** Presented by David Boswarthick of MCC.

RESULT: The document was **NOTED**

12.3 Next meetings, allocation of hosts

Sep 2002				
3GPPCN-#17	OR	4 - 6 Sep 2002	Biarritz , ALCATEL	FR
3GPPCN3-#25	WG	23 - 27 Sep 2002	Miami, NA Friends *	US
Nov 2002				
3GPPCN3-#26	WG	11 - 15 Nov 2002	Bangkok, JP Friends *	TH
Dec 2002				
3GPPCN-#18	OR	4 - 6 Dec 2002	New Orleans, NA Friends	US
Mar 2003				
3GPPCN-#19	OR	12 - 14 Mar 2003	Jersey Island, UK Friends	UK
Jun 2003				
3GPPCN-#20	OR	4 - 6 Jun 2003	Finland	FI
Sep 2003				
3GPPCN-#21	OR	17 - 19 Sep 2003	DE	DE
Dec 2003				
3GPPCN-#22	OR	10 - 12 Dec 2003	TBD	US

* Co-located CN1, CN2, CN3, and CN4.

** Co-located CN1, CN2, CN3, CN4 and CN5.

13 Summary of results

13.1 Work Items

No WIDs were agreed by CN3, to be sent to the next TSG-CN Plenary for Approval:

13.2 Liaison Statements

The following LSs were approved by CN3. Will be presented to the next TSG-CN Plenary for info:

TDoc #	Tdoc Title	LS to	LS cc	LS Attachment
N3-020660	Re. LS on "Requested QoS in case of Streaming and Conversational"	SA2	-	N3-020657, N3-020658, N3-020659
N3-020666	Re. LS on Multiple Codecs	SA5, CN1, SA2	-	N3-020564
N3-020733	LS on RTCP overhead in SDP bandwidth parameter	SA4	CN1, SA2	-
N3-020738	LS on Proposed solutions for the identification of source IP address information over the Go interface	SA2, CN1	-	Potential CRv2, and N3-020731
N3-020740	Re. LS on CS data services in GERAN iu Mode	SA2, GERAN2, CN1	-	N3-020641
N3-020741	LS on RTP / RTCP split for release 5	SA2	-	-

13.3 TRs / TSs

No TR/TSs were agreed by CN3, and are to be sent to the next TSG-CN Plenary for Approval:

13.4 Change Requests

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

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	C_Ver	WI
N3-020548	Handling of M2 Bit for Handover	23.910	033	-	F	R99	3.5.0	CS Data
N3-020549	Handling of M2 Bit for Handover	23.910	034	-	A	Rel-4	4.4.0	CS Data
N3-020550	Handling of M2 Bit for Handover	23.910	035	-	A	Rel-5	5.0.0	CS Data
N3-020600	Removal of SDU error ratio for NT services	23.910	036	-	F	R99	3.5.0	TEI
N3-020601	Removal of SDU error ratio for NT services	23.910	037	-	A	Rel-4	4.4.0	TEI
N3-020602	Removal of SDU error ratio for NT services	23.910	038	-	A	Rel-5	5.0.0	TEI
N3-020665	Handling of CSD calls and Inter-MSC Relocation	23.910	040	-	F	Rel-4	4.4.0	BICSN
N3-020694	Handling of CSD calls and Inter-MSC Relocation	23.910	041	-	A	Rel-5	5.0.0	BICSN
N3-020597	Removal of SDU error ratio for NT services	27.001	078	-	F	R99	3.10.0	TEI
N3-020598	Removal of SDU error ratio for NT services	27.001	079	-	A	Rel-4	4.7.0	TEI
N3-020599	Removal of SDU error ratio for NT services	27.001	080	-	A	Rel-5	5.2.0	TEI
N3-020719	Support for forking in the UE	27.060	020	1	F	Rel-5	5.1.0	E2E QoS

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	C_Ver	WI
N3-020613	Align TS 27.060 with TS 23.207 changes according to contribution S2-022001	27.060	021	-	F	Rel-5	5.1.0	E2E QoS
N3-020669	Configuration of Domain Name System (DNS) server IPv6 addresses	27.060	023	2	F	Rel-5	5.1.0	TEI
N3-020689	IMS related functions for the UE	27.060	024	2	F	Rel-5	5.1.0	E2E QoS
N3-020657	QoS in case of Streaming and Conversational	27.060	025	-	F	R99	3.6.0	TEI
N3-020658	QoS in case of Streaming and Conversational	27.060	026	-	A	Rel-4	4.1.0	TEI
N3-020659	QoS in case of Streaming and Conversational	27.060	027	-	A	Rel-5	5.1.0	TEI
N3-020685	Determining the basic service for MT calls	29.007	053	3	F	Rel-5	5.2.0	TEI
N3-020664	Handling of CSD calls and Inter-MSC Relocation	29.007	054	1	F	Rel-4	4.4.0	BICSN
N3-020693	Handling of CSD calls and Inter-MSC Relocation	29.007	055	1	A	Rel-5	5.2.0	CSSPLIT
N3-020716	Actions within the GGSN for IMS parameters sent in PDP context activation	29.061	057	8	F	Rel-5	5.2.0	TEI
N3-020688	Configuration of Domain Name System (DNS) server IPv6 addresses	29.061	061	2	F	Rel-5	5.2.0	TEI
N3-020677	Clean-up of the PIB	29.207	005	1	F	Rel-5	5.0.0	E2E QoS
N3-020673	Authorized QoS vs. Guaranteed and maximum bit rates	29.207	006	1	F	Rel-5	5.0.0	E2E QoS
N3-020715	Editorial improvements in the specification	29.207	007	2	F	Rel-5	5.0.0	E2E QoS
N3-020696	SBLP Gate Decision	29.207	010	1	F	Rel-5	5.0.0	E2E QoS
N3-020725	Remove incomplete DS function	29.207	011	1	F	Rel-5	5.0.0	E2E QoS
N3-020676	Align TS 29.207 with TS 23.207 changes according to contribution S2-022001	29.207	012	1	F	Rel-5	5.0.0	E2E QoS
N3-020702	User Plane Operation	29.207	014	1	F	Rel-5	5.0.0	E2E QoS
N3-020729	Support for forking in 29.207	29.207	016	4	F	Rel-5	5.0.0	E2E QoS
N3-020727	Message Descriptions	29.207	017	2	F	Rel-5	5.0.0	E2E QoS
N3-020690	Derivation of flow identifiers from SDP	29.207	018	1	F	Rel-5	5.0.0	E2E QoS
N3-020622	Revoke Authorization Procedure	29.207	019	-	F	Rel-5	5.0.0	E2E QoS
N3-020679	Go related error codes to UE	29.207	020	1	F	Rel-5	5.0.0	E2E QoS
N3-020607	Removal of Annex A	29.207	021	-	F	Rel-5	5.0.0	E2E QoS
N3-020686	Initialisation and maintenance / Security considerations	29.207	025	1	F	Rel-5	5.0.0	E2E QoS
N3-020726	Remove incomplete RSVP function	29.207	030	-	F	Rel-5	5.0.0	E2E QoS
N3-020708	R-Type and M-Type for Authorization_Failure event	29.207	032	-	F	Rel-5	5.0.0	E2E QoS
N3-020742	Session modification initiated decision	29.207	033	2	F	Rel-5	5.0.0	E2E QoS
N3-020717	Service Class Mapping in the PCF	29.208	001	2	F	Rel-5	5.0.0	E2E QoS
N3-020744	Data Rate Mapping in the PCF	29.208	002	3	F	Rel-5	5.0.0	E2E QoS

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	C_Ver	WI
N3-020633	Correction of Reference [6]	29.208	003	-	D	Rel-5	5.0.0	E2E QoS
N3-020743	QoS Parameter Mapping between IMS and GPRS	29.208	004	2	F	Rel-5	5.0.0	E2E QoS
N3-020674	Authorized QoS vs. Guaranteed and maximum bit rates	29.208	006	1	F	Rel-5	5.0.0	E2E QoS
N3-020720	Support for forking in 29.208	29.208	007	1	F	Rel-5	5.0.0	E2E QoS
N3-020711	Removal of incomplete function	29.208	008	1	F	Rel-5	5.0.0	E2E QoS
N3-020638	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	43.010	006	1	A	Rel-5	5.0.0	CS Data
N3-020662	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	43.010	008	-	F	Rel-4	4.0.0	CS Data
N3-020680	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	44.021	002	3	A	Rel-5	5.0.0	CS Data
N3-020567	Correction of protocol stacks in annex A	44.021	003	-	A	Rel-5	5.0.0	CS Data
N3-020681	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	44.021	005	-	F	Rel-4	4.0.0	CS Data
N3-020683	Correction of protocol stacks in annex A	44.021	006	-	F	Rel-4	4.0.0	CS Data
N3-020566	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	48.020	002	-	A	Rel-5	5.0.0	CS Data
N3-020682	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	48.020	004	-	F	Rel-4	4.0.0	CS Data

55 CRs agreed

The following CRs are conditionally agreed.

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	C_Ver	WI	Status
N3-020731	Source Address filtering over the Go interface	29.207	022	2	F	Rel-5	5.0.0	E2E QoS	Conditionally Agreed - OPEN

1 CR conditionally agreed

13.5 Other

None in this meeting.

14 Any other business

The CN3 Chair announced the elections for CN3 Vice chairman

The election for the Vice Chairman of CN WG3 will be held during the TSG CN WG3 # 25 meeting in Miami, USA (23-27 September 2002). Up to two Vice Chairmen may be elected and candidatures are now invited for these positions.

Candidatures should be accompanied by a brief CV and a letter of support from the supporting company and should indicate to which Individual Member and Partner they belong.

Candidatures for this position should be addressed to the Mobile Competence Centre for the attention of Karen Hughes <mailto:karen.hughes@etsi.fr> and David Boswarthick <mailto:david.boswarthick@etsi.fr> and should ideally be received by 16th September.

A list of the candidatures received will be posted on the 3GPP web site. (Candidatures may be received up to the time when the election takes place but for practical reasons Individual Members are asked to respect the deadline given above where possible).

15 Close of meeting

Norbert closed the 24th CN3 meeting on Friday 2nd August at 15:30, and thanked the hosts for the excellent meeting location and arrangements.

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

Annex A: List of CN3 Meeting Participants

The following delegates attended the meeting.

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Annex B: List of documents

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020525	2	Agenda	Draft agenda for CN3#24 (Helsinki)	CN3 chair			-					Approved
N3-020526	4.1	Report	Draft report from CN3#23 (Budapest)	MCC			-					Approved
N3-020527	4.2	Report	Draft report from NP#16	MCC			-					Noted
N3-020528	4.3	Report	Draft report from SA#16	MCC			-					Noted
N3-020529	4.3	Report	Slides from CN#16 to SA#16	CN Chair			-					Noted
N3-020530	9.1.2	[CR]	DiffServ Function in 29.207	Nortel Networks	E2E QoS		-		29.207	Rel-5	1.5.0	Revised to 0586
N3-020531	GPRS	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	3	F	29.061	Rel-5	5.2.0	Revised to 0608
N3-020532	9.3	CR	Determining the basic service for MT calls	Vodafone	TEI5	053		F	29.007	Rel-5	5.2.0	Revised to 0649
N3-020533	9.1.2	CR	3GPP PIB dependencies on Framework PIB	Nortel Networks	E2E QoS	001	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020534	9.1.2	CR	Importing of Filters from Framework PIB	Nortel Networks	E2E QoS	002	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020535	9.1.2	CR	Reference [11] update	Nortel Networks	E2E QoS	003	-	F	29.207	Rel-5	5.0.0	EMAIL - WITHDRAWN
N3-020536	9.1.2	CR	IANA number for PIB	Nortel Networks	E2E QoS	004	-	F	29.207	Rel-5	5.0.0	EMAIL - WITHDRAWN
N3-020537	9.1.2	CR	Clean-up of the PIB	Nortel Networks	E2E QoS	005	-	F	29.207	Rel-5	5.0.0	Revised to 0677
N3-020538	3	DAD	Allocation of documents to agenda items (at deadline)	CN3 Chair			-					Noted

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020539	3	DAD	Allocation of documents to agenda items (at start of day 1)	CN3 Chair			-					Noted
N3-020540	3	DAD	Allocation of documents to agenda items (at start of day x)	CN3 Chair			-					Noted
N3-020541	3	DAD	Allocation of documents to agenda items (at start of day y)	CN3 Chair			-					Noted
N3-020542	3	DAD	Allocation of documents to agenda items (at start of day z)	CN3 Chair			-					Noted
N3-020543	12.1	WORK PLAN	Latest Version of the 3GPP Work Plan	MCC			-					Noted
N3-020544	12.2	LIST	Status of CN3 specifications following SA#16	MCC			-					Noted
N3-020545	4.2	Report	Brief notice from CN#16 relevant for CN3	CN3 Chair			-					Noted
N3-020546	4.2	INFO	Email from 17.06.02 on Editorial insertion of RFC#'s by CN Chair	MCC			-					Noted
N3-020547	4.2	INFO	Email from 13.06.02 on Hilites of CN#16/SA#16 by CN Chair	MCC			-					Noted
N3-020548	8.2	CR	Handling of M2 Bit for Handover	Siemens	CS Data	033	-	F	23.910	R99	3.5.0	Agreed
N3-020549	8.2	CR	Handling of M2 Bit for Handover	Siemens	CS Data	034	-	A	23.910	Rel-4	4.4.0	Agreed
N3-020550	8.2	CR	Handling of M2 Bit for Handover	Siemens	CS Data	035	-	A	23.910	Rel-5	5.0.0	Agreed
N3-020551	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	006		F	43.010	Rel-5	5.0.0	Revised to 0638
N3-020552	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	002		F	44.021	Rel-5	5.0.0	Revised to 0639
N3-020553	7	LS IN	LS on CS data services for GERAN lu-mode [G2-020684]	GERAN2			-					Noted
N3-020554	7	LS IN	LS on A/Gb evolution [GP-022012]	GERAN			-					Noted

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020555	7	LS IN	RAN3 final decision on exchange of addresses on Iu-CS using IP Transport Option in Release 5 [R3-021620]	RAN3			-					Noted
N3-020556	7	LS IN	Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5 [R3-021813]	RAN3			-					Noted
N3-020557	7	LS IN	Liaison statement on the Go Interface [S2-022000]	SA2			-					Noted
N3-020558	7	LS IN	Liaison statement on IMS Sessions and PDP Contexts (Response on "Distribution of IMS Charging ID (ICID) from GGSN to SGSN ")	SA2			-					Noted
N3-020559	7	LS IN	LS on CS data services for GERAN Iu-mode [S2-022043]	SA2			-					Noted
N3-020560	7	LS IN	Response to: Liaison statement on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier	SA2			-					Noted
N3-020561	7	LS IN	Liaison Statement on Requested QoS in case of Streaming and Conversational [s2-022061]	SA2			-					Noted
N3-020562	7	LS IN	Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5 [S4-020345]	SA4			-					Noted
N3-020563	7	LS IN	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN [S5-024169]	SA5			-					Noted
N3-020564	7	LS IN	Liaison Statement on Multiple Codecs [S5-024171]	SA5			-					Noted
N3-020565	7	LS IN	LS Response to a Liaison on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5. [GP-021882]	GERAN			-					Noted
N3-020566	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	002	-	A	48.020	Rel-5	5.0.0	Agreed
N3-020567	8.2	CR	Correction of protocol stacks in annex A	Siemens	CS Data	003	-	A	44.021	Rel-5	5.0.0	Agreed
N3-020568	9.1.2	TS	TS29.207, Version 2.0.0 [NP-020167]	Lucent Technologies			-		[TS]	Rel-5	2.0.0	Noted
N3-020569	9.1.2	INFO	Open issues for TS29.207, Version 2.0.0 [NP-020307]	Lucent Technologies			-					Revised to 0703
N3-020570	9.1.3	TS	TS29.208, Version 2.0.0 [NP-020166]	Lucent Technologies			-		[TS]	Rel-5	2.0.0	Noted

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020571	9.1.3	INFO	Open issues for TS29.208, Version 2.0.0 [NP-020306]	Lucent Technologies			-					Revised to 0704
N3-020572	9.1.1	Discussion	Authorized QoS vs. Guaranteed and maximum bit rates	Nokia			-					Noted
N3-020573	9.1.1	CR	Authorized QoS vs. Guaranteed and maximum bit rates	Nokia, Ericsson	E2E QoS	006	-	F	29.207	Rel-5	5.0.0	Revised to 0673
N3-020574	9.1.1	CR	Authorized QoS vs. Guaranteed and maximum bit rates	Nokia, Ericsson	E2E QoS	006	-	F	29.208	Rel-5	5.0.0	Revised to 0674
N3-020575	9.1.2	CR	Go related error codes to UE	Nokia	E2E QoS	020	-	F	29.207	Rel-5	5.0.0	Revised to 0679
N3-020576	9.1.1	Discussion	RTP / RTCP discussion	H3G			-					Withdrawn
N3-020577	9.1.2	CR	RTP/RTCP split	H3G	E2E QoS	015	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020578	9.1.2	CR	RTP/RTCP split	H3G	E2E QoS	008	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020579	9.1.3	CR	RTP/RTCP split	H3G	E2E QoS	005		F	29.208	Rel-5	5.0.0	Withdrawn
N3-020580	10.4	WID	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies			-					Revised to 0706
N3-020581	10.4	Discussion	Discussion of changes in revised WID for PRESNC	Lucent Technologies								Noted
N3-020582	10.4	WID	Revised WID for PRESNC	Lucent Technologies								Revised to 0707
N3-020583	10.2	TS	Updated version of TS 29.163 following CN#23	Vodafone	IMS-CCR-IWCS				TS	Rel-6	1.3.1	Withdrawn
N3-020584	9.1.2	CR	Clarification of Go interaction with Diffserv (GGSN Diffserv function interactions)	Nortel Networks	E2E QoS	028	-	F	29.207	Rel-5	5.0.0	EMAIL - WITHDRAWN
N3-020585	9.1.2	Discussion	GGSN Diffserv function descriptions	Nortel Networks								EMAIL - NOTED
N3-020586	9.1.2	CR	DiffServ Function in 29.207	Nortel Networks	E2E QoS	026	-	F	29.207	Rel-5	5.0.0	EMAIL - WITHDRAWN

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020587	9.1.2	CR	More clarifications on Diffserv Function	Nortel Networks	E2E QoS	013	-	F	29.207	Rel-5	5.0.0	EMAIL - REV. TO 0745
N3-020588	8.3	Discussion	Handling of CSD calls and Inter-MSC Relocation	Ericsson								Noted
N3-020589	8.3	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	BICSN	054		F	29.007	Rel-4	4.4.0	Revised to 0664
N3-020590	9 ?	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	CSSPLIT	055		A	29.007	Rel-5	5.2.0	Revised to 0693
N3-020591	9.1.2	CR	More GGSN Diffserv function interactions	Nortel Networks	E2E QoS	023	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020592	9.1.2	CR	PIB Clasifiers	Nortel Networks	E2E QoS	024	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020593	9.1.2	CR	Initialisation and maintenance / Security considerations	Nortel Networks	E2E QoS	025	-	F	29.207	Rel-5	5.0.0	Revised to 0686
N3-020594	9.1.2	CR	<< No title provided >>	Nortel Networks	E2E QoS	027	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020595	9.1.2	Discussion	Identification of Source IP addresses over the Go interface	AWS								Noted
N3-020596	9.1.2	CR	Source Address filtering over the Go interface <<WRONG VERSION & COVER PAGE>>	AWS	E2E QoS	022	-	F	29.207	Rel-5	5.0.0	Revised to 0698
N3-020597	8.4	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	078	-	F	27.001	R99	3.10.0	Agreed
N3-020598	8.4	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	079	-	A	27.001	Rel-4	4.7.0	Agreed
N3-020599	9.3	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	080	-	A	27.001	Rel-5	5.2.0	Agreed
N3-020600	8.4	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	036	-	F	23.910	R99	3.5.0	Agreed
N3-020601	8.4	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	037	-	A	23.910	Rel-4	4.4.0	Agreed
N3-020602	9.3	CR	Removal of SDU error ratio for NT services	Alcatel	TEI	038	-	A	23.910	Rel-5	5.0.0	Agreed

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020603	9.1.2	CR	Editorial improvements in the specification	Ericsson	E2E QoS	007	-	F	29.207	Rel-5	5.0.0	Revised to 0687
N3-020604	9.1.2	CR	Validating binding information against the UE	Ericsson	E2E QoS	009	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020605	9.1.2	CR	Remove incomplete functions	Ericsson	E2E QoS	011	-	F	29.207	Rel-5	5.0.0	Revised to 0725
N3-020606	9.1.2	CR	Align TS 29.207 with TS 23.207 changes according to contribution S2-022001	Ericsson	E2E QoS	012	-	F	29.207	Rel-5	5.0.0	Revised to 0676
N3-020607	9.1.2	CR	Removal of Annex A	Ericsson	E2E QoS	021	-	F	29.207	Rel-5	5.0.0	Agreed
N3-020608	9.3	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	4	F	29.061	Rel-5	5.2.0	Revised to 0652
N3-020609	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	061		F	29.061	Rel-5	5.2.0	Revised to 0653
N3-020610	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	023		F	27.060	Rel-5	5.1.0	Revised to 0654
N3-020611	9.1.1	CR	Media grouping for the UE	Ericsson	E2EQoS	022		F	27.060	Rel-5	5.1.0	Withdrawn
N3-020612	9.1.1	CR	IMS related functions for the UE	Ericsson	E2EQoS	024		F	27.060	Rel-5	5.1.0	Revised to 0675
N3-020613	9.1.1	CR	Align TS 27.060 with TS 23.207 changes according to contribution S2-022001	Ericsson	E2E QoS	021	-	F	27.060	Rel-5	5.1.0	Agreed
N3-020614	9.1.1	CR	Support for forking in the UE	Ericsson	E2EQoS	020		F	27.060	Rel-5	5.1.0	Revised to 0719
N3-020615	9.1.1	Discussion	Support for forking, discussion	Ericsson								Revised to 0655
N3-020616	9.1.2	CR	Support for forking in 29.207	Ericsson	E2E QoS	016	-	F	29.207	Rel-5	5.0.0	Revised to 0656
N3-020617	9.1.3	CR	Support for forking in 29.208	Ericsson	E2EQoS	007		F	29.208	Rel-5	5.0.0	Revised to 0720
N3-020618	9.1.2	CR	On the derivation of flow identifiers from SDP	Ericsson	E2E QoS	018	-	F	29.207	Rel-5	5.0.0	Revised to 0690

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020619	7	LS IN	LS on Network Integration Testing	ETSi TC SPAN			-					Noted
N3-020620	7	LS IN	Security aspects of A/Gb evolution [S3-020445]	SA3			-					Noted
N3-020621	7	LS IN	LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN" [S5-024238]	SA5			-					Noted
N3-020622	9.1.2	CR	Revoke Authorization Procedure	Siemens	E2E QoS	019	-	F	29.207	Rel-5	5.0.0	Agreed
N3-020623	9.1.2	CR	Message Descriptions	Siemens	E2E QoS	017	-	F	29.207	Rel-5	5.0.0	Revised to 0695
N3-020624	9.1.2	CR	User Plane Operation	Siemens	E2E QoS	014	-	F	29.207	Rel-5	5.0.0	Revised to 0702
N3-020625	9.1.2	CR	SBLP Gate Decision	Siemens	E2EQoS	010	-	F	29.207	Rel-5	5.0.0	Revised to 0696
N3-020626	9.1.3	CR	QoS Parameter Mapping between IMS and GPRS	Siemens	E2E QoS	004		F	29.208	Rel-5	5.0.0	Revised to 0705
N3-020627	9.1.3	CR	Data Rate Mapping in the PCF	Siemens	E2EQoS	002		F	29.208	Rel-5	5.0.0	Revised to 0709
N3-020628	9.1.3	Discussion	Service Class Mapping	Siemens	E2EQoS				29.208	Rel-5	5.0.0	Noted
N3-020629	9.1.3	CR	Service Class Mapping in the PCF	Siemens	E2EQoS	001		F	29.208	Rel-5	5.0.0	Revised to 0710
N3-020630	8.3	Discussion	IP bearer Modification Procedure	Siemens								Noted
N3-020631	8.3	CR	Introduction of IP Bearer Modification Procedure	Siemens	CSSPLIT	008		F	29.414	Rel-4	4.4.0	Revised to 0712
N3-020632	8.3	CR	Introduction of IP Bearer Modification Procedure	Siemens	CSSPLIT	009		A	29.414	Rel-4	5.0.0	Revised to 0713
N3-020633	8.6	CR	Correction of Reference [6]	Siemens	E2E QoS	003	-	D	29.208	Rel-5	5.0.0	Agreed
N3-020634	10.1	TR	Updated TR on 3PP SIP Profile interworking	Siemens					TR	Rel-6	0.0.0	EMAIL - NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020635	10.2	[CR]	Rename IMS Mc interface	Siemens					29.163	Rel-6	1.2.0	Withdrawn
N3-020636	7	LS IN	Liaison statement response on "Maximum and Minimum IP Packet Size" for REL-4 and REL-5 [S2-022005]	SA2			-					Noted
N3-020637	9.3	Discussion	IPv6 DNS configuration for MS	Cisco			-					Noted
N3-020638	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	006	1	A	43.010	Rel-5	5.0.0	Agreed
N3-020639	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	002	1	F	44.021	Rel-5	5.0.0	Revised to 0663
N3-020640	9.3	Discussion	Impact on the Network Architecture concerning the User Plane for CS Data Services (including HSCSD and EDGE) in	Siemens	GERAN lu mode							Noted
N3-020641	9.3	Discussion	Proposal for the User Plane for CS Data Services (including HSCSD and EDGE) in GERAN lu mode	Siemens	GERAN lu mode							Agreed
N3-020642	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	007		B	43.010	Rel-5	5.0.0	Noted
N3-020643	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	039		B	23.910	Rel-5	5.0.0	Noted
N3-020644	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	007		B	24.022	Rel-5	5.0.0	Noted
N3-020645	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	056		B	29.007	Rel-5	5.2.0	Noted
N3-020646	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	081		B	27.001	Rel-5	5.2.0	Noted
N3-020647	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	004		B	44.021	Rel-5	5.0.0	Noted
N3-020648	9.3	CR	CS Data Services (including HSCSD and EDGE) for GERAN lu mode	Siemens	GERAN lu mode	003		B	48.020	Rel-5	5.0.0	Noted
N3-020649	9.3	CR	Determining the basic service for MT calls	Vodafone	TEI5	053	1	F	29.007	Rel-5	5.2.0	Revised to 0670
N3-020650	9.1.2	CR	GGSN inspection of the token	Nortel Networks	E2E QoS	029	-	F	29.207	Rel-5	5.0.0	Revised to 0651

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020651	9.1.2	CR	GGSN inspection of the token	Nortel Networks	E2E QoS	029	1	F	29.207	Rel-5	5.0.0	Revised to 0697
N3-020652	9.3	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	5	F	29.061	Rel-5	5.2.0	Revised to 0667
N3-020653	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	061	1	F	29.061	Rel-5	5.2.0	Revised to 0688
N3-020654	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	023	1	F	27.060	Rel-5	5.1.0	Revised to 0669
N3-020655	9.1.1	Discussion	Support for forking, discussion	Ericsson								Noted
N3-020656	9.1.2	CR	Support for forking in 29.207	Ericsson	E2E QoS	016	1	F	29.207	Rel-5	5.0.0	Revised to 0700
N3-020657	8.4	CR	QoS in case of Streaming and Conversational	Ericsson	TEI	025	-	F	27.060	R99	3.6.0	Agreed
N3-020658	8.4	CR	QoS in case of Streaming and Conversational	Ericsson	TEI	026	-	A	27.060	Rel-4	4.1.0	Agreed
N3-020659	8.4	CR	QoS in case of Streaming and Conversational	Ericsson	TEI	027	-	A	27.060	Rel-5	5.1.0	Agreed
N3-020660	7	LS OUT	Re. LS on "Requested QoS in case of Streaming and Conversational"	CN3 [Ericsson]			-					Approved
N3-020661	7	LS OUT	LS to SA5 on Multiple Codecs	Siemens			-					Revised to 0666
N3-020662	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	008	-	F	43.010	Rel-4	4.0.0	Agreed
N3-020663	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	002	2	F	44.021	Rel-5	5.0.0	Revised to 0680
N3-020664	8.3	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	BICSN	054	1	F	29.007	Rel-4	4.4.0	Agreed
N3-020665	8.3	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	BICSN	040	-	F	23.910	Rel-4	4.4.0	Agreed
N3-020666	7	LS OUT	Re. LS on Multiple Codecs	Siemens			-					Approved

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020667	9.3	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	6	F	29.061	Rel-5	5.2.0	Revised to 0701
N3-020668		NOT USED	NOT USED	NOT USED								NOT USED
N3-020669	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	023	2	F	27.060	Rel-5	5.1.0	Agreed
N3-020670	9.3	CR	Determining the basic service for MT calls	Vodafone	TEI5	053	2	F	29.007	Rel-5	5.2.0	Revised to 0685
N3-020671	7	LS IN	Response LS to "Liaison statement on DTMF" [S4-020478]	SA4			-					Noted
N3-020672	7	LS IN	Updated Re. to LS on Procedure for specifying UMTS QoS Parameters per Application [S4-020486]	SA4			-					Noted
N3-020673	9.1.1	CR	Authorized QoS vs. Guaranteed and maximum bit rates	Nokia, Ericsson	E2E QoS	006	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020674	9.1.1	CR	Authorized QoS vs. Guaranteed and maximum bit rates	Nokia, Ericsson	E2E QoS	006	1	F	29.208	Rel-5	5.0.0	Agreed
N3-020675	9.1.1	CR	IMS related functions for the UE	Ericsson	E2EQoS	024	1	F	27.060	Rel-5	5.1.0	Revised to 0689
N3-020676	9.1.2	CR	Align TS 29.207 with TS 23.207 changes according to contribution S2-022001	Ericsson	E2E QoS	012	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020677	9.1.2	CR	Clean-up of the PIB	Nortel Networks	E2E QoS	005	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020678	9.1.2	CR	CR to Go PIB	Nortel	E2E QoS	031	-	F	29.207	Rel-5	5.0.0	Withdrawn
N3-020679	9.1.2	CR	Go related error codes to UE	Nokia	E2E QoS	020	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020680	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	002	3	A	44.021	Rel-5	5.0.0	Agreed
N3-020681	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	005	-	F	44.021	Rel-4	4.0.0	Agreed
N3-020682	8.2	CR	Correction of Rate Adaptation Functions and removal of S Reference Point in MS	Siemens	CS Data	004	-	F	48.020	Rel-4	4.0.0	Agreed

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020683	8.2	CR	Correction of protocol stacks in annex A	Siemens	CS Data	006	-	F	44.021	Rel-4	4.0.0	Agreed
N3-020684	7	LS IN	LS on the wildcarding of source IP addresses and port numbers in the PCF for the packet classifier [N1-021757]	CN1			-					Noted
N3-020685	9.3	CR	Determining the basic service for MT calls	Vodafone	TEI	053	3	F	29.007	Rel-5	5.2.0	Agreed
N3-020686	9.1.2	CR	Initialisation and maintenance / Security considerations	Nortel Networks	E2E QoS	025	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020687	9.1.2	CR	Editorial improvements in the specification	Ericsson	E2E QoS	007	1	F	29.207	Rel-5	5.0.0	Revised to 0715
N3-020688	9.3	CR	Configuration of Domain Name System (DNS) server IPv6 addresses	Ericsson	TEI	061	2	F	29.061	Rel-5	5.2.0	Agreed
N3-020689	9.1.1	CR	IMS related functions for the UE	Ericsson	E2E QoS	024	2	F	27.060	Rel-5	5.1.0	Agreed
N3-020690	9.1.2	CR	Derivation of flow identifiers from SDP	Ericsson	E2E QoS	018	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020691	9.1.3	CR	Removal of incomplete function	Lucent Technologies	E2E QoS	008	-		29.208	Rel-5	5.0.0	Revised to 0711
N3-020692	9.3	LS OUT	Re. LS on CS data services in GERAN iu Mode	Siemens			-					Revised to 0739
N3-020693	8.3	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	CSSPLIT	055	1	A	29.007	Rel-5	5.2.0	Agreed
N3-020694	8.3	CR	Handling of CSD calls and Inter-MSC Relocation	Ericsson	BICSN	041	-	A	23.910	Rel-5	5.0.0	Agreed
N3-020695	9.1.2	CR	Message Descriptions	Siemens	E2E QoS	017	1	F	29.207	Rel-5	5.0.0	Revised to 0727
N3-020696	9.1.2	CR	SBLP Gate Decision	Siemens	E2E QoS	010	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020697	9.1.2	CR	GGSN inspection of the token	Nortel Networks	E2E QoS	029	2	F	29.207	Rel-5	5.0.0	Revised to 0714
N3-020698	9.1.2	CR	Source Address filtering over the Go interface	AWS	E2E QoS	022	1	F	29.207	Rel-5	5.0.0	Revised to 0731

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020699	9.1.2	LS OUT	Proposed solutions for the identification of source IP address information over the Go interface	AWS			-					Revised to 0732
N3-020700	9.1.2	CR	Support for forking in 29.207	Ericsson	E2E QoS	016	2	F	29.207	Rel-5	5.0.0	Revised to 0722
N3-020701	9.3	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	7	F	29.061	Rel-5	5.2.0	Revised to 0716
N3-020702	9.1.2	CR	User Plane Operation	Siemens	E2E QoS	014	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020703	9.1.2	INFO	Open issues for TS29.207	Lucent Technologies			-					Revised to 0734
N3-020704	9.1.3	INFO	Open issues for TS29.208	Lucent Technologies			-					Revised to 0736
N3-020705	9.1.3	CR	QoS Parameter Mapping between IMS and GPRS	Siemens	E2E QoS	004	1	F	29.208	Rel-5	5.0.0	Revised to 0743
N3-020706	10.4	WID	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies			-					Noted
N3-020707	10.4	WID	Revised WID for PRESNC	Lucent Technologies			-					Noted
N3-020708	9.1.2	CR	R-Type and M-Type for Authorization_Failure event	Lucent Technologies	E2E QoS	032	-	F	29.207	Rel-5	5.0.0	Agreed
N3-020709	9.1.3	CR	Data Rate Mapping in the PCF	Siemens	E2EQoS	002	1	F	29.208	Rel-5	5.0.0	Revised to 0728
N3-020710	9.1.3	CR	Service Class Mapping in the PCF	Siemens	E2EQoS	001	1	F	29.208	Rel-5	5.0.0	Revised to 0717
N3-020711	9.1.3	CR	Removal of incomplete function	Lucent Technologies	E2E QoS	008	1	F	29.208	Rel-5	5.0.0	Agreed
N3-020712	8.3	CR	Introduction of IP Bearer Modification Procedure	Siemens	CSSPLIT	008	1	F	29.414	Rel-4	4.4.0	EMAIL - WITHDRAWN
N3-020713	8.3	CR	Introduction of IP Bearer Modification Procedure	Siemens	CSSPLIT	009	1	A	29.414	Rel-4	5.0.0	EMAIL - WITHDRAWN
N3-020714	9.1.2	CR	GGSN inspection of the token	Nortel Networks	E2E QoS	029	3	F	29.207	Rel-5	5.0.0	EMAIL - REJECTED

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020715	9.1.2	CR	Editorial improvements in the specification	Ericsson	E2E QoS	007	2	F	29.207	Rel-5	5.0.0	Agreed
N3-020716	9.3	CR	Actions within the GGSN for IMS parameters sent in PDP context activation	Ericsson	TEI	057	8	F	29.061	Rel-5	5.2.0	Agreed
N3-020717	9.1.3	CR	Service Class Mapping in the PCF	Siemens	E2E QoS	001	2	F	29.208	Rel-5	5.0.0	Agreed
N3-020718	9.1.2	CR	Session modification initiated decision	Ericsson	E2E QoS	033	-	F	29.207	Rel-5	5.0.0	Revised to 0721
N3-020719	9.1.1	CR	Support for forking in the UE	Ericsson	E2E QoS	020	1	F	27.060	Rel-5	5.1.0	Agreed
N3-020720	9.1.3	CR	Support for forking in 29.208	Ericsson	E2E QoS	007	1	F	29.208	Rel-5	5.0.0	Agreed
N3-020721	9.1.2	CR	Session modification initiated decision	Ericsson	E2E QoS	033	1	F	29.207	Rel-5	5.0.0	Revised to 0742
N3-020722	9.1.2	CR	Support for forking in 29.207	Ericsson	E2E QoS	016	3	F	29.207	Rel-5	5.0.0	Revised to 0729
N3-020723		LS OUT	LS TO SA2 on LS on RTCP overhead in SDP bandwidth parameter	Siemens			-					Revised to 0733
N3-020724		LS OUT	RTP / RTCP split for release 5	H3G			-					Revised to 0730
N3-020725	9.1.2	CR	Remove incomplete DS function	Ericsson	E2E QoS	011	1	F	29.207	Rel-5	5.0.0	Agreed
N3-020726	9.1.2	CR	Remove incomplete RSVP function	Ericsson	E2E QoS	030	-	F	29.207	Rel-5	5.0.0	Agreed
N3-020727	9.1.2	CR	Message Descriptions	Siemens	E2E QoS	017	2	F	29.207	Rel-5	5.0.0	Agreed
N3-020728	9.1.3	CR	Data Rate Mapping in the PCF	Siemens	E2EQoS	002	2	F	29.208	Rel-5	5.0.0	Revised to 0744
N3-020729	9.1.2	CR	Support for forking in 29.207	Ericsson	E2E QoS	016	4	F	29.207	Rel-5	5.0.0	Agreed
N3-020730	6	LS OUT	RTP / RTCP split for release 5	H3G			-					Revised to 0741

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	Cat	Spec	Rel	C_Ver	Status
N3-020731	9.1.2	CR	Source Address filtering over the Go interface	AWS	E2E QoS	022	2	F	29.207	Rel-5	5.0.0	Conditionally Agreed - OPEN
N3-020732	9.1.2	LS OUT	Proposed solutions for the identification of source IP address information over the Go interface	AWS			-					Revised to 0738
N3-020733		LS OUT	LS on RTCP overhead in SDP bandwidth parameter	Siemens			-					Approved
N3-020734	9.1.2	INFO	Open issues for TS29.207	Lucent Technologies			-					EMAIL - NOTED
N3-020735	9.1.2	INFO	Open issues for TS29.207 following email approval period	Lucent Technologies			-					EMAIL - TO BE PROVIDED
N3-020736	9.1.2	INFO	Open issues for TS29.208	Lucent Technologies			-					EMAIL - NOTED
N3-020737	9.1.2	INFO	Open issues for TS29.208 following email approval period	Lucent Technologies			-					EMAIL - TO BE PROVIDED
N3-020738	9.1.2	LS OUT	LS on Proposed solutions for the identification of source IP address information over the Go interface	CN3 [AWS]			-					Approved
N3-020739	9.3	LS OUT	Re. LS on CS data services in GERAN iu Mode	CN3 [Siemens]			-					Revised to 0640
N3-020740	9.3	LS OUT	Re. LS on CS data services in GERAN iu Mode	CN3 [Siemens]			-					Approved
N3-020741	6	LS OUT	LS on RTP / RTCP split for release 5	CN3 [H3G]								Approved
N3-020742	9.1.2	CR	Session modification initiated decision	Ericsson	E2E QoS	033	2	F	29.207	Rel-5	5.0.0	Agreed
N3-020743	9.1.3	CR	QoS Parameter Mapping between IMS and GPRS	Siemens	E2E QoS	004	2	F	29.208	Rel-5	5.0.0	Agreed
N3-020744	9.1.3	CR	Data Rate Mapping in the PCF	Siemens	E2E QoS	002	3	F	29.208	Rel-5	5.0.0	Agreed
N3-020745	9.1.2	CR	Clarifications on Diffserv Function	Nortel Networks	E2E QoS	013	1	F	29.207	Rel-5	5.0.0	EMAIL - REJECTED

History:

Document History	
3 rd August 2002	Draft v0.0.2 distributed to CN3 chairman for comments
26 th August 2002	<p>DRAFT v1.0.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to:</p> <p>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 3 weeks was given to the CN3 delegates for e-mail comments on the draft report.</p> <p>Comments back by Mon. 16th Sept. 2002</p>
16th Sept. 2002	Updated DRAFT v2.0.0 placed to the server
29th July 2002	N3-020173 [v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#22 meeting. Updated to N3-020xyz and placed to the server as v3.0.0.