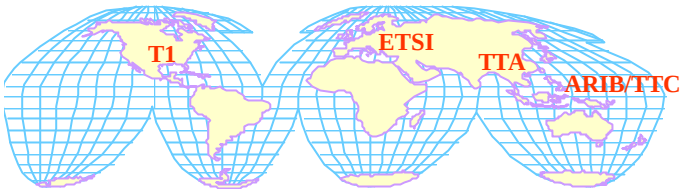
NP-020609



Third Generation Partnership Project

[DRAFT] Meeting Report v1.0.0
for
3GPP TSG CN WG 3
Meeting #26

Bangkok, Thailand
11th - 15th November, 2002.

Hosted by

Japanese Friends of 3GPP

Fujitsu, J-Phone, Lucent Technology Japan, Matsushita Communication, NEC, Nippon Ericsson, Nippon information Technology Consulting, Nokia Japan, NTT Comware, NTT DoCoMo, NTT Software

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1. Opening of the Meeting

The 26th CN3 meeting took place from 11th - 15th November 2002, in Bangkok Thailand.

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

Mr Kunihiko Taya, NEC welcomed the CN3 delegates to Bangkok on behalf of the hosts, and explained the logistical details for the rest of the week.

Objectives for the Meeting:-

- ?? Complete all outstanding Rel-5 issues
- ?? Make progress on Rel-6

2 Approval of the agenda

N3-020883: **CN3#26 Draft Meeting Agenda.** Presented by the CN3 Chairman.

CONTENT: Contains the draft agenda for CN3#26 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

N3-020884: **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.

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

N3-020885: **Allocation of documents to Agenda items for (Start Day 1).**

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

N3-020886: **Allocation of documents to Agenda items for (Start Day 2).**

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

N3-020887: **Allocation of documents to Agenda items (Start Day 3).**

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

N3-020888: **Allocation of documents to Agenda items (End of Day 5).**

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

4 Reports

4.1 Report of last CN3 Meeting

N3-020890: **CN3#25 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#25 (Miami).

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.

DISCUSSION: Updated to reflect the status of 'postponed' CRs from last meeting.

Correction of one spelling of delegate name, removal of comment.

RESULT: The document was **REVISED to 0976**

? **REVISED** ?

N3-020967: **Rev. CN3#25 Draft Meeting Report.** Presented by David Boswarthick, MCC.

RESULT: The document was **APPROVED.**

4.2 Reports from last CN

No documents for this agenda item

4.3 Reports of other groups

No documents for this agenda item

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

(For contributions to this agenda item, please contact chairman in advance of meeting)

No documents for this agenda item

7 Received Liaison Statements

N3-020892 **Re. LS to Liaison statement on DTMF, source CN1** Presented by Ragnar Huslende of Ericsson.

CONTENT: In this LS CN1 requests SA4 to take account of these responses received from SA2, and keep CN1 informed of any issues in release 6 regarding support of DTMF events with optimised voice mode

DISCUSSION: Thomas Belling [Siemens] had some concerns with the description from CN1. This was checked offline.

RESULT: The document was **NOTED.**

N3-020897 **Re. LS on RTCP overhead in SDP bandwidth parameter, source SA4.** Presented by Juha Räsänen of Nokia.

CONTENT: In the LS, SA4 responds to a previous LS from CN3 on RTCP overhead in SDP bandwidth parameter.

SA4 confirms that the b=AS SDP parameter includes only bandwidth for media + payload + RTP/UDP/IP headers. The b=AS parameter does not include RTCP bandwidth. A precise textual definition of the b=AS parameter (conforming to the above description) for PSS specifications is given in the TS 26.234, sec. 5.3.3.1

Note: SA4 requests CN3 to provide an acknowledgement to their LS.

DISCUSSION: Thomas Belling [Siemens] does not believe that SA4's interpretation of the IETF RFC is 100% correct, but CN3 can however accept SA4's understanding. This means an additional overhead of 5% has to be added to the value of the SDP bandwidth.

Javier Gonzalez Gallego [Nortel] mentioned that the SA4 understanding is not the same as that we have in CN3, and CN1. He agreed that the interpretation of the RFC is not correct.

Reidar Ericsson [Ericsson] confirmed that after checking with the source of the original CN1 LS, and analysis of the IETF RFC, he believes that the bandwidth of the RTCP is not included in the RTP media bandwidth. The new RFC is completed and approved within the IETF, (only missing an RFC number).

CN3 presently allocate the extra bandwidth for the RTCP in the media flow, introducing an additional overhead of 5%.

RESULT: The document was **NOTED.**

N3-020893 **Re. LS on RTCP overhead in SDP bandwidth parameter, source CN1.** Presented by Reidar Ericsson of Ericsson.

CONTENT: In the LS, CN1s respond to a previous LS from CN3 on RTCP overhead in SDP bandwidth parameter.

CN1 agrees with CN3 in the assumption that the SDP bandwidth parameter includes all the bandwidth required for the media stream. As the media stream includes not only the RTP stream, but also a mandatory RTCP stream, as specified in RFC 1889, then the bandwidth parameter includes the RTCP overhead.

CN1 has assumed in the call flow examples in 3GPP TS 24.228, that the RTCP bandwidth is 5% of the bandwidth required by the RTP stream. This 5% overhead is a recommended value in RFC 1889. The flows in 24.228 already includes this 5% overhead in the bandwidth parameter in SDP.

CN1 has found that RFC 2327 describes the bandwidth parameter as the proposed bandwidth to be used by the session or media. CN1 has interpreted that the mentioned bandwidth includes the RTCP overhead. Otherwise, the bandwidth information is not deemed to be useful.

RESULT: The document was **NOTED.**

N3-021002 **Re. LS on RTCP overhead in SDP bandwidth parameter, source CN1.** Presented by Reidar Ericsson of Ericsson.

CONTENT: This is the LS formulated by CN1 in their Bangkok meeting.
Although CN1 initially welcomes SA4's suggestion to adopt the Internet Draft "SDP bandwidth modifiers for RTCP", CN1 has not fully studied the impact in the specifications, and so far, there are no proposed CRs to the above-mentioned specifications.
However, future CN1 meetings may receive CRs on this aspect. In the event that CN1 reaches an agreement on those CRs, CN1 will inform the relevant 3GPP working groups.

DISCUSSION: Contains very little information for CN3.

The RFC is agreed in IETF and is simply missing an allocated RFC number. There is no date given for the allocation of the RFC number.

This LS does not treat the issue of whether RTCP bandwidth is not included in the SDP bandwidth. It is still uncertain if the groups are synchronised or not.

In the LS from SA4, they simply state that the RTCP overhead **IS NOT** included in the SDP bandwidth, and are asking if CN1 and CN3 can adopt the IETF RFC.

CN1 does not answer the issue of RTCP overhead. There is still a mismatch of understanding between groups.

Problem with backwards compatibility, what happens when the RFC is not present in older versions or even the parameter contained in the RFC is optional.

It is preferable to have a synchronised understanding of how to interpret the parameter. CN3 can simply implement the 3GPP understanding of the parameter and are not responsible for analysing the IETF RFC.

An Ericsson representative from CN1 reported that CN1 agree that RTCP is NOT agreed in the B parameter.
Also, CN1 believe that the RFC will be ready in the Rel-5 timescale. The intention is to have this parameter MANDATED and have a fallback solution for previous releases. The fallback solution is also described in the RFC.
CN1 have no CRs to this but expect such CR to future meetings.

The Chairman expressed that this opinion cannot be interpreted as CN1 statement. The statements in the CN1 LS are valid.

DAB, MCC proposed a brief joint session with CN1 to ensure that CN1 and CN3 are synchronised on this issue.

It was proposed to send a joint LS out of that joint session to SA4 (cc SA2).

RESULT: The document was **NOTED.**

N3-021003 **Re. LS OUT on RTCP overhead in SDP bandwidth parameter, source CN3.** Presented by Juha Räsänen of Nokia.

CONTENT: Initial proposal of LS out from CN3_CN1 joint session on RTCP issues.

DISCUSSION: Revised to be presented and hopefully approved in Joint CN1_CN3 session.

RESULT: The document was **REVISED to 1008.**

? **REVISED** ?

N3-021008 **Re. LS OUT on RTCP overhead in SDP bandwidth parameter, source CN3.**

DISCUSSION: Addition of the reference to 29.207 and 29.208 is required.

Removal of the comment on the stability of the RFC.

Minor rewording of text for clarity.

RESULT: The document was **REVISED to 1011 see section 11 [joint sessions].**

N3-020894 **LS on CS data services for GERAN Iu-mode, source CN1.** Presented by Norbert Klehn of Siemens.

CONTENT: In this LS, CN1 inform SA2 that

- the general description of the handover procedures in TS 23.009 was updated to cover GERAN Iu-mode with a CR agreed at CN1#21, and
- the handling of the GERAN Classmark, a new information element which is needed for handover to GERAN Iu mode, was specified by a set of CRs to TS 23.205, TS 29.002, and TS 29.010, agreed by CN4 at CN4#15.

Thus the signalling for handover to/from GERAN Iu mode is specified to the same level of detail as for handover to/from UTRAN Iu mode.

As for the handover scenarios a and b mentioned by SA2, Intra BSC handover between an A/Gb mode cell and an Iu mode cell, CN1 point out that these will be treated in the same way as scenario c and d, Intra MSC, inter BSC handover between an A/Gb mode cell an Iu mode cell, since the switch between the different protocol stacks for the user planes in A/Gb mode and Iu mode requires some signalling between the GERAN-BSC and the MSC.

DISCUSSION: No Action for CN3

RESULT: The document was **NOTED.**

N3-020895 **LS on Interoperability Issues and SIP in IMS, source CN1.** Presented by Daisuke Yokota of Lucent.

CONTENT: In this LS CN1 address the issue of Interoperability Issues and SIP in IMS.

CN1 have completed a preliminary analysis of the specific technical issues identified by IETF Working Group Chairs, Area Directors, and IESG members in the Liaison to 3GPP and would like to inform other 3GPP working groups of the outcome of this analysis. This analysis is included in the LS.

DISCUSSION: No impact on the Go interface.

RESULT: The document was **NOTED.**

N3-020896 **Re. LS on Review of TR on 3GPP SIP Profile interworking, source CN1.** Presented by Thomas Belling of Siemens.

CONTENT: CN1 confirms that the scenarios considered in the draft TR on 3GPP SIP Profile interworking are valid and require investigation.

The TR was updated by a drafting group of interested CN1 experts prior to the bis meeting. However, the TR was not reviewed in detail by CN1 itself. In particular, the proposed solutions within the TR were not reviewed.

CN1 thinks that the TR may have impact on their work and would therefore like to ask CN3 to be closely informed about the work progress on the TR related with CN1 documents 24.228 and 24.229.

DISCUSSION: The TR and related discussion documents will be discussed under Ag. item 10.1 and !! (joint sessions).

RESULT: The document was **NOTED.**

N3-020994 **Liaison statement on Interoperability Issues and SIP in IMS, source SA4.**

DISCUSSION: No actions for CN3.

RESULT: The document was **NOTED.**

N3-020898 **LS on Structure of IMS Charging Identifier (ICID), source SA5.** Presented by Ragnar Huslende of Ericsson.

CONTENT: In this LS, SA5 provide additional information about the structure of ICID.

The ICID is made up of a 32-bit running count, followed by the IP-address of the node that generates the ICID. More detailed information about the ICID structure can be found in section 5.2.4.10 of TS 32.225 (attached to LS).

DISCUSSION: Related CR to 29.207 is presented to this meeting.

RESULT: The document was **NOTED.**

N3-020899 **LS on proposed list of core IMS specifications for Access Independence, source SA2.** Presented by Daisuke Yokota of Lucent.

CONTENT: SA2 is currently developing a technical report for Release 6 addressing the topic of access independence and commonality.
It has been recognized that there are some specifications that should be made access independent and other specifications that may remain access dependent.
As part of these discussions, it was agreed that it would be useful to start by identifying the set of 3GPP specifications that are intended to be used as the core IMS specifications and thus should be reviewed by the appropriate TSGs. Additional supporting specifications may need to be addressed at a later time.

SA2 asks CN1, CN3, and CN4 to review the list of proposed core IMS specifications for release 6 and provide any comments that they may have.

SA2 asks CN1 and CN3 to adopt the recommendation regarding the change of PCF to PDF starting from Release 5 and approve the appropriate CRs at their November meetings.

DISCUSSION: The initial list includes TS 29.162 and 29.163 (under CN3 remit).

SA2 has endorsed the proposal to change the name of the Policy Control Function (PCF) to be the Policy Decision Function (PDF) starting from Release 5. This effects TS 29.207 and 29.208, also under CN3 remit.

Hatef Yamini mentioned that H3G have serious concerns with the whole 'access independent' work item. From CN3 point of view the Go interface is certainly access dependent (on GPRS).

CN3 agrees that 29.163 and 29.162 are access independent. It was decided not to send a LS to SA2 to confirm this because both of the specifications are already listed.

CRs are presented to this meeting to update the terms PCF to PDF. These CRs are related to the SA2 and CN1 CRs to be approved in plenary CN/SA#18.

RESULT: The document was **NOTED.**

N3-020900 **LS on SBLP control of DiffServ, source SA2.** Presented by Javier Gonzalez Gallego of Nortel.

CONTENT: In this LS, SA2 provides CN3 with two CRs to 23.207 for Release 5:
- S2-023064 implements removal of SBLP based control of Diffserv from 23.207.
- S2-023063 inserts a description of the GGSN Diffserv functions into 23.207.

SA2 has considered the points raised in CN3's liaison. In SA2's discussions it was concluded that there were essentially three key issues which needed to be addressed with respect to this proposed functionality.

Issue 1: The UE must have sufficient information about the policing functions being carried out in the GGSN to ensure that the flows it generates comply with the policing functions installed by the network – assuming the UE is well-behaved.
There were differing opinions about whether it would be possible to derive this information from the SDP and whether a separate policing function in the UE would be required to ensure conformance.

Issue 2: SDP may not contain complete information about the end-to-end QoS requirements, in particular it may not necessarily contain information about the delay requirements. It may not, therefore, be appropriate to derive QoS policing/marking parameters which are used at the GGSN from the SDP alone – further information from the UE, such as PDP Context parameters, may need to be taken into account as well.

Issue 3: The proposals open the possibility of packets being dropped at the GGSN after they have been successfully carried over the radio interface. There were differing views about whether this was correct behaviour.
There was agreement that the UE must be able to prevent this (described in Issue 1).

SA2 is considering these issues as part of Release 6. SA2 will inform CN3 when resolutions of the above key issues are achieved.

DISCUSSION: SA2 have agreed the WID for SBLP control of DiffServ. Nortel will present the corresponding CN3 WID to this meeting.

Some CN3 delegates suggested attending SA2 meeting when they discuss this issue. It was agreed that CN3 could join the SA2 meeting when they discuss E2EQoS. (Wednesday 13th Nov)

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

N3-020902 **CR 29.061-R99: Correction related to IPv6, source Ericsson.** Presented by Ragnar Huslende of Ericsson.

CONTENT: Corrects an error introduced in a formerly approved CR.

RESULT: The document was **AGREED.**

N3-020903 **CR 29.061-Rel4: Corrections related to IPv6, source Ericsson.** Presented by Ragnar Huslende of Ericsson.

CONTENT: Corresponding (CAT A) CR that corrects an error introduced in a formerly approved CR. At CN3#23, two companion CRs were agreed, one for R99 (N3-020477) and one for Rel-4 (N3-020478). However, for full alignment, some changes are still missing for Rel-4 in TS 29.061 v4.5.0.

RESULT: The document was **AGREED.**

N3-020917 **Content restriction for roaming GPRS subscribers, source Vodafone.** Presented by Nick Russell of Vodafone.

CONTENT: The document proposes the definition of a new RADIUS 3GPP Vendor Specific attribute in a manner consistent with the existing 3GPP Vendor Specific attributes (refer to CRs in N3-020918 – 020922)

DISCUSSION: Note: Corresponding CRs have been approved in CN4. Vodafone have proposed to send only MCC+MNC and not the full routing area ID because SGSN only informs the GGSN when the mobile turns itself on or when an inter GGSN handover is performed. It was not considered worthwhile to send the full routing ID in this situation.

RESULT: The document was **NOTED**

N3-020918 **CR 29.061-R97: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

CONTENT: CR adds the definition of a new RADIUS 3GPP Vendor-specific attribute [18 - 3GPP-SGSN MCC-MNC].

DISCUSSION: Presence requirements is optional (hence backwards compatible)

The CR is not made to the correct version of the specification. (attribute 13 not in R97).

RESULT: The document was **REVISED to 1005.**

? **REVISED** ?

N3-021005 **Rev. CR 29.061-R97: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

DISCUSSION: Attribute number 18 will still be used (although 13-> is not used in this release)

RESULT: The document was **AGREED.**

N3-020919 **CR 29.061-R98: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

DISCUSSION: The CR is not made to the correct version of the specification. (attribute 13 not in R97).

RESULT: The document was **REVISED to 1006.**

? **REVISED** ?

N3-021006 **Rev. CR 29.061-R98: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

DISCUSSION: Attribute number 18 will still be used (although 13-> is not used in this release)

RESULT: The document was **AGREED.**

N3-020920 **CR 29.061-R99: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

RESULT: The document was **AGREED.**

N3-020921 **CR 29.061-Rel4: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

RESULT: The document was **AGREED.**

N3-020922 **CR 29.061-Rel5: RADIUS enhancement for identification of VPLMN, source Vodafone.** Presented by Nick Russell of Vodafone.

RESULT: The document was **AGREED.**

8.2 Circuit switched Bearer Services

No input to this Agenda Item.

8.3 Bearer Independent Circuit switched Core network

No input to this Agenda Item.

8.4 Technical Enhancements & Improvements (TEI)

No input to this Agenda Item.

9 Release 5

NOTE: Release 5 has 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.
CAT B and CAT C CRs are NOT ALLOWED
CAT-D CRs are allowed up until TSG#18 (Dec 2002). At that time we will examine if CN can continue to allow CAT-D CRs until March 2003.

9.1 e2e QoS for IM Subsystem

9.1.1 General

N3-020975 **Local policy decisions at GGSN, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: This discussion document addresses the following PROBLEMS:

- When the GGSN makes a local decision, the GGSN does not get SBLP supplied filters (from the PCF). Because TFT filter parameters are wildcarded when binding information is present in the request, the GGSN does not get any filter parameters in the PDP context activation/modification request. This means that local decision making at the GGSN
  - is not possible at the activation of a PDP context because there are no filters at all,
  - is questionable at the modification of a PDP context when the request is preceded by a negotiation on the IMS level, because the GGSN does not know about possible changes of filter parameters.
- A further problem with the local decision making at the GGSN is that the charging correlation does not work, because there is no message exchange between the PCF and the GGSN.

POSSIBLE SOLUTIONS

The inconsistencies in the TS 29.207 could be corrected either by

- removing the whole local decision making at the GGSN, which would eliminate also the charging correlation problem, or
- removing the not working cases of the local decision making at the GGSN, or
- letting the UE send the TFT filter parameters to the GGSN also when binding information is present, which would mean a change in the behaviour of the UE and consequently a change also in TS 27.060.

DISCUSSION: Local policy decision is an operator configurable option. However it is not know if all operators will, may, or will not implement this option.

H3G and Ericsson considered the 3rd option to be difficult to achieve.

H3G preferred developing the second solution. Using cache policy is desirable in certain cases.

Siemens consider the 2nd option to be the best, and support the initial states can be used in certain cases.

CN3 agreed to pursue the development of the 2nd solution and will draft CRs based on this.

RESULT: The document was **NOTED.**

9.1.2 29.207

N3-020924 **Open issues for TS29.207, Version 5.0.0, source MCC** Presented by Daisuke Yokota of Lucent.

RESULT: The document was **REVISED to 0984**

? **REVISED** ?

N3-020984 **Open issues for TS29.207, Version 5.0.0, source MCC** Presented by Daisuke Yokota of Lucent.

CONTENT:

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.
   ✍ **[CLOSED]** by TS29.207 CR011r1 (N3-020725).
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).
   ✍ **[CLOSED]** by TS29.207 CR022r2 (N3-020731).
3. The handling of IMS charging ID has to be detailed on receiving a response LS from SA5 (section 6.3.2).
   ✍ **[CLOSED]** by TS29.207 CR061r1 (N3-020993).
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).
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).
   ✍ **[CLOSED]** by TS29.207 CR034r1 (N3-020867).
8. The location of UE specific descriptions has to be decided (annex A).
   ✍ **[CLOSED]** by TS29.207 CR021 (N3-020607).
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) An additional procedure of session modification initiated decision is required to fulfil this.
    ✍ **[CLOSED]** by TS29.207 CR016r3 (N3-020722) and CR033r1 (N3-020721).
11. A reference to Internet Draft shall be updated to refer to RFC.
    ✍ **[OPEN]** Waiting for RFC number to be assigned for *draft-ietf-rap-rsvp-authsession*.
12. An IANA number for PIB shall be assigned.
    ✍ **[CLOSED]** by TS29.207 CR057r1 (N3-020987).

RESULT: The document was **APPROVED to be presented to CN#18**

N3-020904 **CR 29.207: Clarification on the authorized bandwidth for RTP media streams, source Ericsson** Presented by Ragnar Huslende of Ericsson.

CONTENT: It is clarified that the authorized bandwidth for an RTP stream is derived from the SDP bandwidth parameter by adding RTCP overhead. Editorial simplification of the overview section to avoid duplicated text in the specification

DISCUSSION: Relates to calculation of RTCP bandwidth.

Questions were raised to the wording of the text.

It was clarified that CN3 should specify what happens when RTCP is used, and not how RTCP should be used.

Until the IETF RFC is fully completed, CN3 can only assume RTCP overhead is used when RTP is present, and must specify the behaviour in response to this. Improved wording was suggested to reflect this.

RESULT: The document was **REVISED to 1019.**

? **REVISED** ?

N3-021019 **Rev. CR 29.207: Clarification on the authorized bandwidth for RTP media streams, source Ericsson** Presented by Ragnar Huslende of Ericsson.

DISCUSSION: Changes on Changes.

RESULT: The document was **REVISED to 1025.**

? **REVISED** ?

N3-021025 **Rev. CR 29.207: Clarification on the authorized bandwidth for RTP media streams, source Ericsson** Presented by Ragnar Huslende of Ericsson.

RESULT: The document was **AGREED.**

N3-020905 **CR 29.207: Added reference to TS29.208, source Ericsson** Presented by Ragnar Huslende of Ericsson.

CONTENT: CR adds the missing reference to 29.208 in 29.207.

RESULT: The document was **AGREED.**

N3-020908 **CR 29.207: Re-Using filters from the IETF Framework PIB, source Nortel Networks, Ericsson, Nokia.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: Following comments from the IETF area director, the Go PIB specific filters: go3gppIpFilterTable and go3gppBaseFilterTable are removed from the Go PIB, and the framework PIB frwkIpFilterTable and frwkBaseFilterTable are used instead.

DISCUSSION: Add Juniper to the source companies.

Mirko Schramm [Siemens] proposed moving detailed changes to another paragraph.

Text added to the message description section also needs to be added in the authorization message section.

RESULT: The document was **REVISED to 0985**

? **REVISED** ?

N3-020985 **Rev. CR 29.207: Re-Using filters from the IETF Framework PIB, source Nortel Networks, Ericsson, Nokia** Presented by Javier Gonzalez Gallego of Nortel

RESULT: The document was **AGREED.**

N3-020909 **CR 29.207: Correction to table 4.3.1.1.1, source Nortel Networks, Nokia.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: Corrects Table 4.3.1.1.1 that presently contains a sub-index “1” that is misleading as it may be confused with the drop precedence level.

DISCUSSION: Siemens document N3-020944 also effects this section.

Rejected due to alignment to SA2 decisions to use the term QoS class

RESULT: The document was **REJECTED.**

N3-020910 **CR 29.207: PCF by PDF substitution, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: Changes the terminology from PCF (Policy Control Function) to PDF (Policy Decision Function) as part of the harmonization works between 3GPP and 3GPP2

DISCUSSION: Lucent contribution in N3-020948 is similar apart from the addition of 'last update in PIB.

Withdrawn and replaced/merged with N3-020948.

RESULT: The document was **WITHDRAWN.**

N3-020948 **CR 29.207: PCF to PDF Change, source Lucent** Presented by Daisuke Yokota of Lucent.

CONTENT: Changes the terminology from PCF (Policy Control Function) to PDF (Policy Decision Function) as part of the harmonization works between 3GPP and 3GPP2

DISCUSSION: The Nortel contribution in N3-020910 has been merged with this Lucent CR

NOTE: This CR needs to be done last to include all other CRs. Search and Replace on "PCF".

Merged with N3-020910.

RESULT: The document was **AGREED.**

N3-020912 **CR 29.207: Update reference [11], source Nortel Networks.**

RESULT: The document was **REVISED to 0978 BEFORE PRESENTATION**

? **REVISED** ?

N3-020978 **CR 29.207: Update reference [11], source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

CONTENT: This CR updates Reference [11]. The RFC number is still not available from the IETF.

Note: the IETF Draft is in the Editors queue waiting for the RFC number to be assigned.

RESULT: The document was **AGREED.**

N3-020913 **CR 29.207: IANA numbers: COPS client-type and PIB branch number, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: 3GPP Go PIB branch number is under the enterprise branch defined for 3GPP (10415).

DISCUSSION: Some minor editorial updates.

RESULT: The document was **REVISED to 0987**

? **REVISED** ?

N3-020987 **Rev. CR 29.207: IANA numbers: COPS client-type and PIB branch number, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

RESULT: The document was **AGREED.**

N3-020915 **CR 29.207: Multiple Media Authorization Tokens, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: The case already defined when the binding information was received from the UE and forwarded to the PCF by the GGSN is extended to cope with the case when multiple Policy Elements are received.

Now when multiple Media Authorization Tokens are received, all of them will be forwarded. Clarifying text and a reference to better understand the process is added.

DISCUSSION: Ericsson had concerns on the 'forward compatibility' issues.

Multiple tokens are not handles by Rel-5 UEs. UE will need to examine the binding information in the Token.

Juha [Nokia], Siemens and Ericsson see this as a new functionality for Rel-5. This is not allowed for Rel-5.

CN1 may examine the backwards compatibility issues. CN3's action depends on the decision in CN1.

RESULT: The document was **REJECTED.**

N3-020916 **CR 29.207: PIB references and clarifications, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: Adds the references to the PIB imports definitions and the Framework PIB.

DISCUSSION: Mirko Schramm found the text in section 6.4 confusing move to Go PIB section.

For the changes in 6.3.1.4, the same text is changed in a Siemens CR [N3-020945]. These will be considered in the revised version of this CR.

RESULT: The document was **REVISED to 0989.**

? **REVISED** ?

N3-020989 **Rev. CR 29.207: PIB references and clarifications, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

DISCUSSION: Siemens CR removed the part from the GO PIB that this CR modifies. MCC will take care of this clash.

```
        DscpOrAny
                FROM DIFFSERV-DSCP-TC          --Defined in RFC 3289 [16]
```

RESULT: The document was **AGREED.**

N3-020926 **Changes to GGSN behaviour when no binding information, source Hutchison3G.** Presented by Hatef Yamini of Three.

CONTENT: Proposes to define the functionality of the UE, such that any requests for non IMS services (i.e. services where Go authorization is not possible) result in activation of another primary PDP context towards a different (non-IMS) APN. This however imposes restrictions on the possible APN architecture that can be chosen by the operator, and causes additional overhead on the UE such as support for two IP addresses, and possibly of different IP versions.

Therefore, it is proposed to change the specification to allow, based on operator defined local policy in the GGSN, request for secondary PDP contexts without binding information to be accepted.

RESULT: The document was **NOTED**

N3-020923 **CR 29.207: Changes to GGSN behaviour when no binding information received, source Hutchison3G**

RESULT: The document was **REVISED to 0979 BEFORE PRESENTATION**

? **REVISED** ?

N3-020979 **Rev. CR 29.207: Changes to GGSN behaviour when no binding information received, source Hutchison3G** Presented by Hatef Yamini of Three.

CONTENT: If no binding information is received within the PDP context activation request from the UE, it should be left to operator defined local policy as to whether to reject or accept the UE.

DISCUSSION: Addition of new text for better clarity was provided (in an offline session).

RESULT: The document was **REVISED to 0990.**

? **REVISED** ?

N3-020990 **Rev. CR 29.207: Changes to GGSN behaviour when no binding information received, source Hutchison3G.** Presented by Hatef Yamini of Three.

RESULT: The document was **AGREED.**

N3-020927 **CR 29.207: Clarification on use of charging correlation information, source NEC.** Presented by Yukio Kawanami of NEC.

CONTENT: Current 29.207 describes ICID and GCID as charging correlation information. However, the current description is misaligned with 24.229 V5.2.0. This CR attempts to align the two specifications.

DISCUSSION: GPRS charging is mentioned in the stage 2 specification. Mirko Schramm [Siemens] has concerns with introducing the term GPRS charging information, when only parts of the GPRS charging is carried in certain messages.

Ragnar Hulsende suggested that a reference needs to be added in 24.229 toward 29.207 relating to GPRS charging information.

Presently there is no information about GPRS charging information in SA5 specification [33.225].

Reference to 24.229 is repeated - new one should be removed.

RESULT: The document was **REVISED to 0993.**

? **REVISED** ?

N3-020993 **Rev. CR 29.207: Clarification on use of charging correlation information, source NEC.** Presented by Yukio Kawanami of NEC.

DISCUSSION: Examined in evening drafting session.

Suggested to reject the proposed changes, simply adding the reference to 29.060 and 24.229.

The GCID is not related to IMS. Simply add reference to 29.060. ICID is defined in 24.229, so this reference needs to be added.

We should be able to transfer multiple ICIDs for Rel-5, (although they are not used in Rel-5 UEs). A note was added to the text to indicate this.

Reference added to TS 32.225 where the ICID format is defined.

Siemens have a contribution that also changes the section on ICID [N3-020946]. However it is not contradicting and can be simply added to the new text.

RESULT: The document was **AGREED.**

N3-020928 **CR 29.207: Clarification on PIB regarding the use of charging correlation information, source NEC.** Presented by Yukio Kawanami of NEC.

RESULT: The document was **WITHDRAWN.**

N3-020933 **CR 29.207: GTP cause code for Go related errors, source Nokia, Ericsson.** Presented by Juha Räsänen of Nokia.

CONTENT: CR defines which GPRS Tunnelling Protocol (GTP) cause code to use in the cases when a PDP context request is rejected due to a Go related error.

DISCUSSION: This cause code is already defined by CN1. Hatef Yamini [H3G] stated that there may be conflicting problems with the duplicate use of this cause code.

Which version of the cause code should the GGSN forward to the UE? Juha replied that it is a generic code.

Hatef Yamini [H3G] stated that as the UE has no definite way of knowing which value of the cause code the SGSN has sent it still need to look in the PCO field. Does not see the value of adding a new GTP cause code when the mapping is not certain.

Hans Ronneke [Ericsson] said that they had examined several options, and this seemed to be the simplest, cleanest way. This cause code is used for a "many to one" mapping.

Missing GGSN mapping is a more global issue in 3GPP specifications. This may be an implementation issue.

Using this new cause code is clearer than using an existing code. The mapping of these cause codes needs to be done by CN4. Discussions in CN4 also preferred re-using an existing cause code as opposed to a new one.

RESULT: The document was **REVISED to 1004.**

? **REVISED** ?

N3-021004 **Rev. CR 29.207: GTP cause code for Go related errors, source Nokia, Ericsson.** Presented by Ragnar Huslende of Ericsson.

DISCUSSION: This modified CR proposes re-using an existing cause code, as opposed to introducing a new cause code.

Laurent Andriantsiferana [Cisco] did not agree with using this cause code as it relates to authentication and RADIUS. Cannot share the same error code between Go interface and RADIUS.

Ericsson responded that this will always be the case if we re-use an existing cause code (which is why they originally proposed a new cause code).

No other cause code seem to be better suited to being re-used

RESULT: The document was **AGREED.**

N3-020935 **CR 29.061: Handling of binding information by GGSN, source Nokia, Ericsson.** Presented by Juha Räsänen of Nokia.

CONTENT: Removes a Go interface related error handling that belongs to other specification.

DISCUSSION: If the GGSN does not support the Go. the UE cannot get the binding info from the PCF, and also the GGSN will not detect this error case.

Coding of the error case is done in another CR. Minor changes - removal of duplicated text, error in cover page. Relates to the CR contained in N3-020983.

RESULT: The document was **AGREED.**

N3-020936 **CR 29.207: Handling of binding information by GGSN, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: Defines what the GGSN shall do, when it receives a PDP context request with binding information even though the Go interface is disabled.

DISCUSSION: The format of Go error codes may need to be changed in 24.008.

Error code number 4 is not defined in 24.008. Needs to be defined in 29.207. A list of cause codes exists in 24.229, and it is proposed to remove that list from 24.229.

RESULT: The document was **REVISED to 0983**

? **REVISED** ?

N3-020983 **CR 29.207: Handling of binding information by GGSN, source Nokia.** Presented by Juha Räsänen of Nokia.

RESULT: The document was **AGREED.**

N3-020937 **CR 29.207: Connection failure between PCF and GGSN, source Nokia, Ericsson.** Presented by Juha Räsänen of Nokia.

CONTENT: Defines what the GGSN is shall do, if the connection between the GGSN and the PCF fails and the GGSN is not allowed to make a local authorization decision.

DISCUSSION: Move changes to clause 5.1.2 further up in the text. Need a number for the error code, also need to add the coding of the Error code somewhere. Also remove part of new text that is duplicated in Annex D.

RESULT: The document was **REVISED to 0980**

? **REVISED** ?

N3-020980 **CR 29.207: Connection failure between PCF and GGSN, source Nokia, Ericsson.**
Presented by Juha Räsänen of Nokia.

RESULT: The document was **AGREED.**

N3-020944 **CR 29.207: Replacement of DiffServ class with QoS class, source Siemens.**
Presented by Mirko Schramm of Siemens.

CONTENT: A QoS class definition is added to the definitions section. In several sections the term DiffServ class is replaced by QoS class. The table 4.3.1.1.1 is aligned and the DiffServ specific PHBs are replaced by letters.

DISCUSSION: Requires the Go PIB to be updated also.

Definition of term 'QoS class' has now been agreed by SA2. CN3 agree to the use of the term in 29.207.

New QoS classes need to be defined in 29.207. The DIFFSERV classes are not used by or defined in 29.207.

Ericsson supported the use of more generic QoS classes (A,B,C,D,E,F), as long as the specific coding of these classes is added to 29.207.

RESULT: The document was **REVISED to 0986.**

? **REVISED** ?

N3-020986 **Rev. CR 29.207: Replacement of DiffServ class with QoS class, source Siemens**
Presented by Mirko Schramm of Siemens.

DISCUSSION: Add the definition of QoS class and deletes the definitions of DIFFSERV and RSVP.

Overlaps with CR034 that effects however they do not effect the same text and MCC will manage the implementation of the two changes.

Also overwrites a former CR048 from Nortel that was agreed in Miami. These CRs CLASH and need to be merged. Either the Nortel CR is revised to include the Siemens CR (and the Siemens CR Withdrawn) or the Nortel CR can be Withdrawn and contained changes added to the Siemens CR. In both cases it was advised to source the remaining CR from both companies.

Terminology change needs to be made in both 29.207, and 29.208. Daisuke Yokota has provided these updates to 29.208 in N3-021014.

Do not delete References but make VOID.

RESULT: The document was **REVISED to 1020.**

? **REVISED** ?

N3-021020 **Rev. CR 29.207: Replacement of DiffServ class with QoS class, source Siemens**
Presented by Mirko Schramm of Siemens.

DISCUSSION: Combines the original Nortel CR048 (agreed at Miami). The CR048 is now WITHDRAWN.

In Go PIB 'spaces' need to be replaced by 'underscore (or similar)'. Also do not use TABS.

Also delete ' Per Hop Behaviour ' from the abbreviations.

RESULT: The document was **REVISED to 1026.**

? **REVISED** ?

N3-021026 **Rev. CR 29.207: Replacement of DiffServ class with QoS class, source Siemens**
Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020945 **CR 29.207: Update of Device Capabilities and Limitations section, source Siemens.** Presented by Mirko Schramm of Siemens.

CONTENT: The CR updates section 6.3.1.4 Reporting of Device Capabilities and Device Limitations. The objects which are part of the Go PIB conformance section are deleted. Other objects are added which are used to transfer information for device capabilities and limitations.

DISCUSSION: Either remove all functions in the text or align the functions with the content of the Go PIB. (Complete or delete the list).

Nortel explained why it was incorrect to remove the conformance section. Ericsson asked to keep it but with a greater level of detail. That was agreed and also to create an specific new conformance section for that information

Not good to add a new Editors Note to a frozen specification. This needs to be removed and the change or the missing text added to the PIB.

RESULT: The document was **REVISED to 0991.**

? **REVISED** ?

N3-020991 **Rev. CR 29.207: Update of Device Capabilities and Limitations section, source Siemens.** Presented by Mirko Schramm of Siemens.

DISCUSSION: Addition of a reference to where outsource models are described.

Also the content of CR was not the correct one.

RESULT: The document was **REVISED to 1023.**

? **REVISED** ?

N3-021023 **Rev. CR 29.207: Update of Device Capabilities and Limitations section, source Siemens.** Presented by Mirko Schramm of Siemens.

RESULT: The document was **AGREED.**

N3-020946 **CR 29.207: Corrections in Message Description Section, source Siemens** Presented by Mirko Schramm of Siemens.

CONTENT: This CR corrects the text in the Message Description Section.

RESULT: The document was **AGREED.**

N3-020953 **CR 29.207: DiffServ Class definition for UL and DL in the Go interface, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: This CR adds a clarifying sentence to avoid a conflict in the GGSN, when Authorised QoS is set for both uplink and downlink directions by PCF. The DiffServ Class value set by PCF shall be defined equal for both UL and DL direction, when both directions are used.

DISCUSSION: Note Diffserv class needs to be replaced by QoS class AND PCF- PDF changed (by the MCC at end of CR process).

Reidar Ericsson [Ericsson] asked if it would be better to have a mechanism in Go PIB to avoid setting different values in the up and down links.

The meeting agreed to setting the same values for up and downlink, (as suggested in this Nokia CR).

RESULT: The document was **AGREED.**

N3-020954 **CR 29.207: Go FailDecReason mapping to PCO error codes, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: This CR provides the following changes:

- Go FailDecReason mapping to PCO error code in GGSN,
- New generic Go FailDecReason code for non-specified error cases,
- Usage of FailDecReason codes,
- Minor editorial changes.

DISCUSSION: Some additional minor editorial details were suggested.

Mirko Schramm [Siemens] suggested we may need add additional error cases. It was agreed that these could be added by CRs to future meetings.

RESULT: The document was **REVISED to 0995**

? **REVISED** ?

N3-020995 **Rev. CR 29.207: Go FailDecReason mapping to PCO error codes, source Nokia.** Presented by Juha Räsänen of Nokia.

RESULT: The document was **AGREED.**

N3-020957 **CR 29.207:TFT handling in the GGSN, source Nokia**

RESULT: The document was **WITHDRAWN.**

N3-020961 **CR 29.207: Go PIB clarifications, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

CONTENT: In response to a request from CISCO to provide a clearer description of the TCP establishment, this CR adds a new Informative Annex that clarifies how the Go PIB works.

DISCUSSION: When the GGSN initialise for the first time, the PEP instances are initialised. The GGSN will open a TCP connection with the PDF (COPS is open). Then, the GGSN sends the first COPS REQ message to the PDF indicating capabilities and the supported PRCs. This is done using:

Clarification required on the term 'failure' where used in this annex.

Several editorial and formatting changes were suggested.

Possibility to use VOID Annex A as opposed to introducing a new ANNEX. - MCC to check.

RESULT: The document was **REVISED to 0996**

? **REVISED** ?

N3-020996 **Rev. CR 29.207: Go PIB clarifications, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

DISCUSSION: Changes on changes.

Change annex E to Annex X to allow MCC to insert where applicable.

Also several spelling errors need to be corrected.

RESULT: The document was **REVISED to 1022**

? **REVISED** ?

N3-021022 **Rev. CR 29.207: Go PIB clarifications, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

RESULT: The document was **AGREED.**

N3-020969 **Support of Early Media, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: This document discusses problems related to policy control for early media. It aims to initiate a related discussion. One possible solution is provided as a CR to 29.207 in N3-020962

DISCUSSION: Javier Gonzalez Gallego [Nortel] suggested that enhancements to SIP need to be brought to IETF.

Thomas clarified that these are GPRS specific and unlikely to interest IETF. Also 3GPP is able to introduce new SDP attributes via IANA.

Interworking issues for early media is larger than the IMS and PSTN (as mentioned in this document) and may even include IMS to IMS interworking.

Daisuke Yokota [Lucent] stated that the Go interface includes the capability to handle Early Media. In this case CN1 will be more involved in the work on SIP level session initiation and Go level interaction.

RESULT: The document was **NOTED.**

N3-020962 **CR 29.207: Support of Early Media, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: In case of a mobile originating call, the PCF should include the gate enabling command for the downlink gate for audio media ("m=audio" in SDP) as part of the authorisation decision to enable early media.

DISCUSSION: Modification proposed to the text for added clarity.

RESULT: The document was **REVISED to 1007.**

? **REVISED** ?

N3-021007 **Rev. CR 29.207: Support of Early Media, source Siemens.** Presented by Thomas Belling of Siemens.

DISCUSSION: Ericsson suggested that the CR is correct, but it may be too early to implement in Rel-5. It is not adequate for certain scenarios.

Operators may not have a policy to allow early media when it is interworking with an external PSTN. This needs to be studied further and possibly postponed to Rel-6.

A rewording of the text was proposed that was accepted by the originator.

RESULT: The document was **REVISED to 1024.**

? **REVISED** ?

N3-021024 **Rev. CR 29.207: Support of Early Media, source Siemens.** Presented by Thomas Belling of Siemens.

RESULT: The document was **AGREED.**

N3-020988 **CR 29.207: Coding of Go related error codes, source Nokia, Ericsson.** Presented by Juha Räsänen of Nokia.

CONTENT: CR defines the he coding of the go related error codes.

DISCUSSION: 24.008 is specifying containers NOT the coding, hence 29.207 is the correct specification to have the coding of Go related error codes.

RESULT: The document was **AGREED.**

9.1.3 29.208

N3-020925 **Open issues for TS29.208, Version 5.0.0, source MCC.** Presented by Daisuke Yokota of Lucent.

DISCUSSION: Diffserv class to QoS class change

RESULT: The document was **REVISED to 1009**

? **REVISED** ?

N3-021009 **Rev. Open issues for TS29.208, Version 5.0.0, source MCC.** Presented by Daisuke Yokota of Lucent.

DISCUSSION: Siemens suggested closing this one remaining open item and open an new one for the IETF RFC.

Also some minor editorial errors were corrected.

RESULT: The document was **REVISED to 1027.**

? **REVISED** ?

N3-021027 **Rev. Open issues for TS29.208, Version 5.0.0, source MCC.** Presented by Daisuke Yokota of Lucent.

DISCUSSION: Change shall to may

RESULT: The document was **REVISED to 1029.**

? **REVISED** ?

N3-021029 **Rev. Open issues for TS29.208, Version 5.0.0, source MCC.** Presented by Daisuke Yokota of Lucent.

CONTENT:

- Resource reservation flows with end-to-end RSVP interactions are missing (section 5.2).
  ✍ **[CLOSED]** by TS29.208 CR008r1 (N3-020711).
- 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).
- Support for forking shall be considered. (new requirement added to TS23.228 by a CR agreed at SA#16)
  ✍ **[CLOSED]** by TS29.208 CR007r1 (N3-020720).
- Further clarification is required if the SDP b=AS:<bandwidth> parameter includes the bandwidth for RTCP.
  ✍ **[CLOSED]** Agreed on the working assumption to consider that the SDP b=AS parameter does not include the overhead for RTCP.
- The specification may be updated when IETF specifies new parameters to define RTCP bandwidth in a new RFC on "SDP bandwidth modifiers for RTCP".
  ✍ **[OPEN]** to be studied when the RFC becomes available.
- Re-introduction of streaming class to QoS mapping rules for authorization has to be considered.
  ✍ **[OPEN]** to be studied by CN3 #27.

RESULT: The document was **APPROVED to be presented to CN#18**

N3-020911 **CR 29.208: PCF by PDF substitution, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

CONTENT: PCF and Policy Control Function have been systematically replaced with PDF and Policy Decision Function respectively.

DISCUSSION: Propose merging with Lucent CR [0949]

RESULT: The document was **REVISED to 1010**

? **REVISED** ?

N3-021010 **Rev. CR 29.208: PCF by PDF substitution, source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel.

RESULT: The document was **AGREED.**

N3-020949 **CR 29.208: PCF to PDF Change, source Lucent.**

RESULT: The document was **WITHDRAWN.**

N3-020970 **Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.**

RESULT: The document was **REVISED to 0982 BEFORE PRESENTATION**

? **REVISED** ?

N3-020982 **Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.** Presented by Daniela Makovec of T-Mobile.

CONTENT: This discussion document proposes the re-introduction of the possibility to have a streaming session limited by max. Authorized QoS parameters which are appropriate for a streaming class session.

DISCUSSION: Siemens and Ericsson could not agree in the streaming session would be limited by defined QoS parameters which are appropriate for conversational sessions.

In addition Ericsson could not see any potential for Fraud. However there was agreement that radio resources could be wasted. Fraud could come about from the charging model adopted for streaming, conversational services.

RESULT: The document was **REVISED to 1018**

? **REVISED** ?

N3-021018 **Rev. Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.** Presented by Daniela Makovec of T-Mobile.

DISCUSSION: Proposes to define the mapping rule in a way, that the maximum authorized QoS could be set according to the requested service.

The CR presented in N3-021015 cannot be agreed at this meeting, and can be presented at future meeting to be approved after NP#18. This will be added to the open issue document for 29.208.

RESULT: The document was **NOTED**

N3-020947 **CR 29.208: Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.**

RESULT: The document was **REVISED to 0981 BEFORE PRESENTATION**

? **REVISED** ?

N3-020981 **CR 29.208: Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.** Presented by Daniela Makovec of T-Mobile.

CONTENT: The CR modifies the rules which define the mapping of the SDP parameters and the max. authorized DiffServ PHB in order to allow a mapping to conversational class in case of a request of a bi-directional session with media type 'audio or video', and to allow a mapping to streaming class in case of a uni-directional session with media type 'audio or video'.

DISCUSSION: It is possible to have IP flows over one or several separate PDP contexts. T-mobile could not see the interest of separating IP flows over several PDP contexts for one session this requires in these flows being synchronized (at the RTP level) and have similar QoS profiles.

The document was discussed in an offline session between interested parties.

RESULT: The document was **REVISED to 1015**

? **REVISED** ?

N3-021015 **Rev. CR 29.208: Re-Introduction of Streaming Class to PCF QoS-Mapping, source T-Mobile.**

RESULT: The document was **WITHDRAWN.**

N3-020955 **CR 29.208: RTCP overhead vs. SDP bandwidth, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: Editor's notes questioning the validity of the SDP bandwidth parameter not including the RTCP overhead are replaced with editor's notes indicating that SA4 is working on new RTCP related bandwidth parameters which will have an impact on this specification.

DISCUSSION: Little benefit in updating the Editors Note. Better to remove the old Editors note.

Ericsson have a similar CR on this issue (N3-020932). Nokia are happy with the Ericsson proposal.

RESULT: The document was **WITHDRAWN**

N3-020932 **CR 29.208: Removal of editors note regarding calculation of b=AS, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

CONTENT: Removes the editor's notes regarding whether or not the 'b=AS:' parameter includes the bandwidth of an associated RTCP IP flow.

DISCUSSION: Same as Nokia CR in N3-020955.

RESULT: The document was **AGREED.**

N3-021014 **CR 29.208: Replacement of DiffServ class with QoS class, source Lucent.** Presented by Daisuke Yokota of Lucent.

CONTENT: This CR replaces "DiffServ PHB" with "QoS class" and provides the related changes to the definitions and abbreviations sections.

RESULT: The document was **AGREED.**

9.1.4 27.060

N3-020930 **CR 27.060: Editorial improvements and an error correction, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

CONTENT: The CR provides editorial improvements and error corrections to 27.060.

DISCUSSION: Includes CRs to CRs so should be revised.

Also the term 'shall' has been removed in several places from this specification. This needs to be checked as the changes are inappropriate in places.

The restriction on Bundling is needs to be added.

RESULT: The document was **REVISED to 1016.**

? **REVISED** ?

N3-021016 **Rev. CR 27.060: Editorial improvements and an error correction, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

DISCUSSION: The term "IMS IP flows" will need to be updated in the future (only once stage 2 terminology has been updated).

RESULT: The document was **AGREED.**

N3-020929 **CR 27.060: Multiplexing IMS media components to PDP contexts, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

CONTENT: Adds a new subclause 13.x “Multiplexing of IMS media components to PDP contexts”.

DISCUSSION: Siemens stated they can agree to this CR, although will need to be an align of some other CN3 specifications [27.060] to update the terminology "IMS media components". However this CR does not introduce a mismatch between the specifications.

NOTE: This CR can only be APPROVED at CN#18 on the **condition that the corresponding CN1 CR [N1-022281 or revisions] is also APPROVED at CN#18**. That CN1 CR is in turn dependent upon the Development of related work in IETF.

RESULT: The document was **AGREED**

N3-020931 **CR 27.060: Policy control rejection of PDP context, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

CONTENT: Adds a new subclause 13.y “Policy control rejection of PDP context”

DISCUSSION: Nokia and Siemens wish to replace 'will' by "The GGSN rejects a PDP" in the 1st sentence.

A reference to service based local policy is required.

Both Terms MS and UE are used, it should be MS in this specification.

Referencing format should be the same in this CR.

RESULT: The document was **REVISED to 1017.**

? **REVISED** ?

N3-021017 **Rev. CR 27.060: Policy control rejection of PDP context, source Ericsson.** Presented by Reidar Ericsson of Ericsson.

RESULT: The document was **AGREED**

N3-020956 **CR 27.060: TFT handling in the UE, source Nokia.**

RESULT: The document was **WITHDRAWN**

9.2 Service change and UDI fall back

N3-020901 **SRNS Relocation For SCUDIF Calls, source Ericsson.**

RESULT: The document was **WITHDRAWN**

N3-020938 **Speech codec selection for SCUDIF calls, source Ericsson.**

RESULT: The document was **WITHDRAWN**

N3-020971 **Comments on Usage of Bearer Modification for SCUDIF, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: In N3-020939 Ericsson suggests to restrict the speech usage in the SCUDIF case to G.711.
Siemens has serious concerns about this suggestion that shall be outlined in the present contribution.

This discussion document outlines and develops those concerns.

Siemens suggest not to accept a restriction to G.711 within the SCUDIF capability negotiation to avoid the outlined negative impacts to TrFO.

Instead, we should apply the Out of-Band Transcoder Control Codec Modification Procedure in TS 23.153 with as little additions as possible. A related CR is contained in N3-020972.

DISCUSSION: Phil Hodges (Ericsson), Speech part of SCUDIF service is not a normal TRFO call. SCUDIF is designed to promote multimedia in networks where multimedia calls are not guaranteed. (Hence fallback to speech).

Later developments in standardisation mean that for privacy reasons

Talking to some manufacturers, it seems charging may be done at flat rate hence the bearer used will not have an impact on the charge for the call.

In a network were we have the option to have TRFO, we should also have the case where TrFO is not supported.

Siemens feels that looking at one business case (flat rate charging) is too restrictive, and we should consider all possibilities.

Compromise proposal:

In multimedia codec definition we could indicate if successful call allows all codecs or just the PCM codec.

Want TrFO but don't need TrFO in a multimedia environment. For speech component of the multimedia

Both parties could not seem to agree on the requirements in this meeting. It was suggested that this be examined offline between the two interested parties.

It was suggested to present the CRs that treat the not controversial aspects on the CODEC modification. [N3-020942]

It was agreed that Ericsson and Siemens come up with joint CRs on non-controversial CRs [N3-021000].

RESULT: The document was **NOTED.**

N3-020939 **CR 23.172: Speech codec selection for SCUDIF calls, source Ericsson.**

RESULT: The document was **WITHDRAWN.**

N3-020940 **CR 23.172: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: This CR adds the description of the case where the originating MSC returns BCs in reversed order to the originating UE due to the called user requesting a reverse of the BCs

DISCUSSION: One alternative could be to leave call set up as it was and realise the change by the modify procedure. However this may have impacts on charging. Using the proceed message is an improvement (for the customer) when it comes to charging.

Correction of minor type error.

RESULT: The document was **REVISED to 0999.**

? **REVISED** ?

N3-020999 **Rev, CR 23.172: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED.**

N3-020941 **CR 23.172: Service Change Procedure, source Ericsson.**

DISCUSSION: Controversial - needs to be treated with Siemens document.

RESULT: The document was **MERGED with 0972 into N3-021000**

? MERGED WITH ?

N3-020972 **CR 23.172: Usage of Bearer Modification for SCUDIF, source Siemens.**

DISCUSSION: Controversial - needs to be treated with Ericsson document.

Ericsson only have concerns with the last change in this CR. The other changes are OK.

Siemens and Ericsson will take the discussions offline and come back with a common CR (N3-02100) that treats the non-controversial issues.

RESULT: The document was **MERGED with 0941 into N3-021000**

? MERGED INTO ?

N3-021000 **Rev CR 23.172: Service Change Procedure, source Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED.**

N3-020942 **CR 27.001: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: The CR adds the description of the case where the originating MSC returns BCs in reverse order to the originating UE.

DISCUSSION: Modifications were suggested to the new wording to improve clarity.

Called terminal reverses the order of the BC-IEs is misleading and controversial - the text was modified.

RESULT: The document was **REVISED to 0997.**

? REVISED ?

N3-020997 **Rev. CR 27.001: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

DISCUSSION: Minor type error.

RESULT: The document was **REVISED to 1001.**

? REVISED ?

N3-021001 **Rev. CR 27.001: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED.**

N3-020943 **CR 29.007: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: This CR adds the description of the case where the originating MSC returns BCs in reverse order to the originating UE

DISCUSSION: Similar wording issues as in N3-020942.

RESULT: The document was **REVISED to 0998.**

? REVISED ?

N3-020998 **CR 29.007: Mobile originating BC handling for SCUDIF calls, source Ericsson.** Presented by Phil Hodges of Ericsson.

RESULT: The document was **AGREED.**

9.3 Technical Enhancements & Improvements (TEI)

N3-020950 **CR 48.020: CS Data Services (including HSCSD and EDGE) for GERAN Iu mode, source Siemens.** Presented by Norbert Klehn of Siemens.

CONTENT: Replaces a formerly agreed CR that was made to the wrong version of the spec.

RESULT: The document was **AGREED.**

10 Release 6

10.1 Interworking between IM subsystem and IP

N3-020934 **Discussion document on TR on SIP interworking, source Nokia, Ericsson.**

RESULT: The document was **DISCUSSED in JOINT SESSION**

N3-020963 **Draft TR on SIP profile interworking as Output of editing session with CN1 experts, source Siemens.**

DISCUSSION: What to do with the TR?

The TR will be used as the basis for further contributions on this.

In the joint meeting with CN1 we agreed to present the TR to CN#18, However without modifications presented in these contributions that may not be possible.

CN3 were confident that the TR can be presented to CN#18 for information.

Specification number has been chosen as TR 29.962 in order to align with TS 29.162.

The rapporteur will provide a clean version of the TR (v1.0.0) to be presented to the plenary.

MCC will ensure this number is allocated to the TR.

RESULT: The document was **AGREED as a basis for further developments.**

? **REVISED** ?

N3-021028 **Rev TR on SIP interworking, source Rapporteur**

CONTENT: It was suggested to simplify the structure of the TR to reduce the number of sections. This is a complicated task that will be examined by the rapporteur.

RESULT: The document was **APPROVED to be presented to CN#18 for information.**

N3-020964 **Comments on end-to-end call flows in TR on SIP profile interworking, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: This document comments the end-to-end callflows suggested in Sections 4.1.3.2.2 and 4.2.3.2.2 of the TR. It aims to initiate a discussion about the impacts, in particular on policy control over the Go interface.

DISCUSSION: Agree to investigate the inactive attribute. The proposed changes are contained in N3-020974. Late contribution and more time is required to study this issue. This is valid for all of the related contributions on this subject [N3-020974, N3-020965, N3-020966 and N3-020968]

RESULT: The document was **POSTPONED to future meetings.**

N3-020974 **Proposed Updates for end-to-end callflows in TR on SIP profile interworking, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: This document proposes changes to the end-to-end callflow Sections in the draft TR.

DISCUSSION: Outlines one possible solution.

The case where the Go interface is not enabled in the APN is not effected by this change. This would rely on normal GPRS charging. However Ericsson stated that the GPRS charging ID is not present if the Go interface is not present.

H3G had concerns with the 'inactive state' that may result in a denial of service whilst network resources are engaged.

RESULT: The document was **POSTPONED to future meetings.**

N3-020965 **Proposal for Insertion on static B2B UA, for draft TR on SIP interworking, source Siemens.** Presented by Thomas Belling of Siemens.

RESULT: The document was **POSTPONED to future meetings.**

N3-020966 **Relevant Charging mechanisms to be considered in draft TR on SIP interworking , source Siemens.**

RESULT: The document was **POSTPONED to future meetings.**

N3-020967 **General rules for B2B UA in draft TR on SIP interworking Siemens, source.**

RESULT: The document was **WITHDRAWN**

N3-020968 **Proposals for end-to-end call flows in mobile terminating case for draft TR on SIP interworking, source Siemens.**

RESULT: The document was **POSTPONED to future meetings.**

10.2 Interworking between IM Subsystem with CS

N3-020958 **Interworking between IM CN subsystem and CS networks, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: Work for the WI Interworking between IM CN subsystem and CS networks is being done in several standardization bodies and groups. ITU-T SG11 is specifying the interworking between SIP and BICC/ISUP. 3GPP TSG-CN1 standardizes the 3GPP SIP profile. 3GPP TSG-CN3 standardizes the principles of the interworking in their TS 29.163. 3GPP TSGs CN3 and CN4 are supposed to standardize the Mn interface between the MGCF and the IM-MGW.
The work in CN3 and CN4 has in practice been suspended due to dependencies on the work in the other groups, mainly in ITU-T SG11. CN3 and CN4 are running short of time for the work to be completed within Release 6, if they wait for the work to be completed in the other groups.
However, an integral part of the work to be done in CN3 and CN4 is not strictly dependent on the completeness of the SIP and BICC/ISUP mapping under work in SG11. Parallel work in CN3 may even support the work in CN1 and SG11, e.g. by helping CN1 to finish the 24.228 signalling scenarios.

Therefore, it is suggested that CN3 starts the work on defining the signalling interactions and procedures for the Mn interface, and the draft CR for the TS 29.163 in the document N3-020959 is used as a basis for the work.

DISCUSSION: Thomas Belling [Siemens] supported proceeding with this work.

Ragnar Huslende [Ericsson] mentioned that CN3s work relates work being done by CN3 on H.248. There needs to be some coordination between CN3 and CN4.

The work split: CN4 will do the detailed parameter specification after CN3 has completed their work. However it is not clear what level of detail needs to be done by CN3.

RESULT: The document was **ENDORSED.**

N3-020959 **CR 29.162: Mn signalling interactions and procedures, source Nokia.** Presented by Juha Räsänen of Nokia.

CONTENT: Intention of this CR to draft specification is to get comments and start discussion on the work that needs to be added.

Presented in the meeting, and put on email discussion until the next CN3 meeting.

DISCUSSION: This approach is very BICC oriented, and it is expected that this also covers ISUP.

ITU are handling the interworking BICC to ISUP. Thomas Belling [Siemens] stated there is some overlap between this CR and the work being done by ITU-T. Thomas will provide detailed comments to Nokia on this during the email discussion.

Call related procedures (i.e. MGW first connect) need to be examined by CN3 (or CN4).

Javier Gonzalez Gallego [Nortel] What parts of the Mc interface can be re-used and or referenced.

The issue of VISIO software for diagrams within this (and other) specifications was raised. ***DAB to check on status and Advise CN3.***

Comments accepted until the end of the meeting, then the document will be discussed on email.

RESULT: The document was **REVISED to 1021.**

? **REVISED** ?

N3-021021 **Rev. CR 29.162: Mn signalling interactions and procedures, source Nokia and Siemens.** Presented by Juha Räsänen of Nokia.

DISCUSSION: Has now been reviewed by Siemens. Includes ISUP as a mobile terminating case.

Thomas will provide CRs to the next meeting to update some incorrect references.

Ericsson wished to make comments to this document before this CR is added to the Draft specification.

It was agreed to make an email discussion about this subject until the next CN3 meeting.

RESULT: The document was **EMAIL DISCUSSION.**

10.3 End to End QoS, Stage 3.

N3-020914 **Release 6 version of dynamic control of DiffServ Edge Function, source Nortel Networks.**

RESULT: The document was **REVISED BEFORE PRESENTATION to 1013**

? **REVISED** ?

N3-021013 **Rev. WID for Release 6 End to end QoS stage 3, source Nortel Networks.**

CONTENT: This Work item will finish the study of Diffserv Edge function in Release 6 along with any new enhancements identified in Stage 2.

DISCUSSION: Impacts on TS 29.207 and TS 29.208.

CN3 are still missing the requirements from SA2. CN3 will await this information from SA2 before beginning work on this.

The requirements are not yet clarified in SA2.

Estimated end date for the stage 3 of NP#20 is too short.

Some delegates had concerns in approving a WID now as a placeholder for work that is not yet clearly defined in SA2. CN3 considered it to be too early to agree a formal WID in CN3.

The scope if the WID End to end QoS stage 3 is more global than DIFFSERV.

Comments were made to the Justification and Scope sections as well as the timescales.

RESULT: The document was **NOT AGREED.**

10.4 Commonality and interoperability between IMSs

No input to this Agenda Item.

10.5 Presence

No input to this Agenda Item.

10.6 MBMS

No input to this Agenda Item.

10.7 Framing Protocol

N3-020952 **Preferred Framing Protocol Solution, source Ericsson.** Presented by Phil Hodges of Ericsson.

CONTENT: This paper describes the reasoning behind the proposed solution for Preferred Framing Protocol, and the handling of the specification work.

CRs have been submitted by Ericsson to CN4 that define the basic Protocol procedures (23.205), the specific handling when combined with OoBTC (23.153) and the Stage 3 protocol Element definition (29.205).
Further specification is required in CN3 to define the use of this protocol for CSD calls, for example the selection of the IuUP mode may be made by the terminating MSC, Codec Negotiation may not apply etc, and for interworking to external networks a reference to this protocol should be made from TS 29.007. A CR on TS 29.007 is submitted to CN3 for approval [N3-020951].

DISCUSSION: Thomas Belling [Siemens] stated that the requirements are not yet fully clarified in CN4, and Siemens have proposed a slightly different solution to CN4. Siemens have also presented a discussion document to CN3 [N3-020992].

This solution needs to be agreed in CN4 before CN3 can complete their work.

CN4 will describe the protocol in TS 23.205.

CN3 will describe the use of the protocol for CS data calls and interworking.

CN3 agreed the worksplit as proposed in the Ericsson document.

RESULT: The document was **NOTED.**

N3-020951 **CR 29.007: Preferred Framing Protocol, source Ericsson.** Presented by Phil Hodges of Ericsson.

DISCUSSION: Not urgent to be approved at this meeting.

RESULT: The document was **POSTPONED to future meetings.**

N3-020992 **Preferred Framing Protocol Solution, source Siemens.** Presented by Thomas Belling of Siemens.

CONTENT: This Contribution investigates the detailed requirements for the negotiation of the Iu Framing protocol modes and proposes suitable extensions to BICC signalling allowing this negotiation.

DISCUSSION: Ericsson believes that the backwards compatibility issue needs to be addressed.

Main difference between the Ericsson and Siemens contributions seems to be if transparent or support mode is used for the protocol.

Phil Hodges [Ericsson] said that the Siemens solution where the result of the terminating side should be sent back to the originating side is a change to the way calls are usually handled.

Summary:

It was clarified how CS services work.

Decision on the mode to be used is made in the IWF in the VMSC.

Other nodes have to be informed by an appropriate mechanism.

Only exception would be with BICC signalling where it would be sensible to use the same mode in both directions (to avoid an additional IWF).

RESULT: The document was **NOTED**

10.8 Mp (MRCF-MRCP) interface

No input to this Agenda Item.

10.9 Other Rel-6 Work Items

N3-020977 **WID for WID for Enhanced TFO (eTFO), source Nortel Networks.** Presented by Javier Gonzalez Gallego of Nortel

CONTENT: This WI intends to bring enhancements to the TFO standard in order to enable transmission saving on packet networks crossed by the voice communication. This is a bearer independent WI. It will be possible to run this protocol with ATM, TDM or IP and any topology of networks mixing them.

DISCUSSION: Presented for information to CN3. Has also been presented to CN4 and SA4.

NOTE: Impacts on 29.414 and 29.415 which are under the CN3 remit.

May also have impacts on the radio network (GERAN).

CN3 can expect input to their specifications on this for future meetings.

Siemens requested a discussion document presenting the issues.

RESULT: The document was **NOTED.**

11 Joint sessions

A brief joint session was held with CN1

- to resolve the RTCP overhead issue where SA4 is expecting a response and
- to clarify the future work on the TR on SIP Profiles interworking.

The joint session was chaired by Norbert Klehn (CN3 chair).

11.1 SDP bandwidth and RTCP overhead

General Discussion:

CN3 has initiated a discussion on whether the SDP bandwidth includes the overhead needed by RTCP or not. SA4 was of the opinion that the RTCP overhead is not included. Originally (at CN1 Miami) CN1 understood that the RTCP overhead was included in SDP bandwidth, and indeed CRs were agreed to include the 5% extra for RTCP bandwidth.

CN1 and CN3 have received a LS from SA4, that proposes to use the new IETF Draft titled *"SDP bandwidth modifiers for RTCP"* that defines a separate parameter for the RTCP overhead.

CN1s original response to SA4 did not state they wish to adopt the RFC, but they cannot say this until the CRs have been agreed in CN1. CN1 plays the hand of caution.

It was necessary to synchronise the WGs.

The SDP RFC lacks some clarity on this issue, and that was the source of the original confusion between CN1, CN3 and SA4.

Thomas Belling [Siemens] asks how an external client will react. He sees the best way to allow for interworking with external networks is to allow the extra 5% bandwidth in the B parameter. This is how it is presently done in CN3

Miguel A. Garcia [Ericsson] saw this as a dangerous as we may end up having 5+5% additional overhead.

Although SA4 has interpreted that RTCP is NOT included in SDP bandwidth it is not certain that the IETF have made the final decision on this.

Three Main questions:

- Do we use the RFC in 3GPP?
- How do we interpret the RFC in regards to b=AS parameter in SDP?
- How do we deal with an invite from an external UE that does not include the b=AS parameter. I.e. with an external network.

Several delegates saw no harm in allocating the extra 5% overhead to avoid possible problems.

Summary:

Agreement on the statement that use of the new IETF Draft does not solve the issue - still need to see what the SDP header includes.

Different companies have different views on how to interpret the RFC draft (does or does not include the RTCP). This question needs to be solved in 3GPP.

Although this issue is for IETF to solve, we can come to an agreement in 3GPP on the interpretation of the RFC.

Email discussions in the IETF have concluded that the RTCP is not included in the b=AS parameter. However 3GPP cannot reference an email decision. We can only formulate a coordinated 3GPP interpretation of the RFC. This understanding needs to be written down in one of the RFCs somewhere.

Working assumption is we use the value of the b=AS parameter and add +5% for the RTCP overhead if a separate value for the RTCP overhead is not present. Keith Drage suggested drafting an informational RFC to the IETF that includes this issue. In this way the IETF have to consider the issue.

It was proposed to send a joint LS to SA4 to report the opinion of CN1 and CN3. A draft LS was prepared by CN3 in N3-021011.

N3-021011 **[N1-022484] Re. LS OUT on RTCP overhead in SDP bandwidth parameter, source CN3 and CN1.** Presented by Juha Räsänen of Nokia.

CONTENT: TSG-CN WG1 and WG3 thank TSG-SA WG4 for clarifying the RTCP overhead vs. SDP bandwidth issue (S4-020567). CN1 and CN3 agree with SA4's interpretation that the b=AS parameter does not include RTCP bandwidth.

CN1 and CN3 welcome the adoption of the RFC titled "SDP bandwidth modifiers for RTCP" considered by SA4 for Rel-5. However, the adoption of this solution will have an impact on CN1's and CN3's specifications. Particularly, 3GPP TS 24.229 covers the SIP and SDP related procedures, and 3GPP TS 24.228 covers mostly example information flows. As such, any new requirement on the usage of SIP or SDP has to be documented in those specifications. The impact on CN3's specifications, e.g. 29.207 and 29.208, is under investigation.

If SA4 decides to adopt the considered solution and if the related draft RFC is approved in time for Rel-5, CN1 and CN3 will study the issue in detail and produce relevant Rel-5 CRs.

DISCUSSION: Some editorial comments were made to the text.

It was agreed that only one LS be sent from CN1 and CN3. The original outgoing LSs in CN1 and CN3 were withdrawn..

RESULT: The document was **REVISED to N1-022485 and N3-021012.**

? **REVISED** ?

N3-021012 **[N1-022485] Re. LS OUT on RTCP overhead in SDP bandwidth parameter, source CN3 and CN1.**

RESULT: The document was **APPROVED.**

11.2 TR on SIP Profiles Interworking

N3-020934 **[N1-022388] TR on SIP interworking, source Ericsson, Nokia.** Presented by Miguel A. Garcia of Ericsson.

CONTENT: As part of the CN3 work item on interworking between IMS and external IP networks, a TR on interworking between the 3GPP profile of SIP and non-3GPP SIP has been created. A number of issues have been identified which are directly related to how SIP is used for end-to-end call control in 3GPP. From the beginning it was assumed that the TR had to be developed in close cooperation with CN1. At the recent CN1#26bis meeting in Munich the TR was reviewed, and a discussion emerged as to how the work on the TR could best be continued.

A number of alternatives have been mentioned, all of which implying a considerable CN1 involvement, e.g.:

1. The work on interworking and related SIP issues proceed in parallel in CN1 and CN3. Changes done in one group impacting the other group are communicated either informally or by LS's.
2. The work continues by means of joint sessions covering the related CN1/CN3 issues.
3. The responsibility for the TR is transferred from CN3 to CN1. The work in the two groups would mainly be decoupled. CN3 could refer to the relevant CN1 documents in TS 29.162, and, if necessary, use them as a base for further work on TS 29.162.

Below are some considerations that may suggest that alternative 3 is a practical way forward:

CN1 is the SIP expert group in 3GPP. Hence, we would expect that CN1 is able to progress the work on the TR quickly and reliably. CN3 would also be able to proceed with the other parts of TS 29.162.

The TR is closely dependent on the SIP usage and signalling flows specified by CN1 in e.g. TS 24.228 and TS 24.229. Changes in these specifications may be necessary in order to solve/eliminate certain interworking issues. If CN1 owns the TR, changes may be done with a minimum of inter-group coordination.

IETF and 3GPP are co-operating in the SIP area related to the concerns expressed by IETF on the way 3GPP is using SIP (see e.g. N3-020796/NP-020393). Since CN1 is already involved in analysing IETF concerns, this process may be more streamlined if CN1 also handles the TR.

Proposal: Request comments and feedback to the above statements. If alternative 3 is acceptable, the WID should be revised accordingly and submitted for approval at CN#18.

DISCUSSION: In the Munich Ad Hoc meeting on this, there was suggestions on moving this TR from CN3 to CN1. However there was no consensus on this.

It was agreed to take the draft TR as stands as the basis for future work in CN3, and CN1.

The purpose of the TR is not to document the interworking. It will identify issues and will made proposals to overcome the issues when terminals with different SIP profiles have to interwork.

This initial work is almost complete, and this information needs to be agreed, and then reviewed by SA2. When SA2 have examined the stage 2 impacts and documented it in TS 23.228 and 23.008, CN1 and CN3 can implement their relevant Stage 3 elements.

Keith Drage suggested the quickest way to get this TR approved (in CN#18) and available for review by SA2, is to leave it in CN3 and develop it to such a stage where it can be agreed.

There is also the problem of WG workload, and it is possible that CN1 do not have the spare capacity to take this TR onboard.

However Miguel [Ericsson] stated that CN1 SIP experts need to examine the details before it can be agreed and presented to SA2 for review.

The intention of the rapporteur of this TR (Thomas Belling of Siemens) is to present it to CN#18 for information only. The best way to achieve this is to have ownership in CN3.

It is essential that the TR is reviewed by CN1 before it is APPROVED (after being presented for information at NP#18.

Andrew Allen disagreed in saying that this TR NOT be informative and needs to be informational TR xx.9xx series. This TR will also be seen by the IETF. It was responded that CN3's intention is to use 29.962 as TR number.

Keith Drage [Lucent] objected to CN1 and CN3 jointly owning this TR as it is not the most efficient method.

Proposal: TR will be used for making decisions hence must be correct, the existing version (N3-021018) will be used as basis for further contributions.

Joint ownership to be avoided.

TR in ownership remains in CN3.

CN3 completes the TR and presents to CN#18 for information.

CN1 will then be invited to review the TR and provide comments, changes to the TR.

The TR will be presented to a future plenary (CN#19 or later) for approval.

RESULT: The document was **NOT AGREED.**

12 Work Organization

12.1 Work Plan Review

N3-020891: **3GPP Project Plan, source MCC.** Presented by David Boswarthick of MCC.

DISCUSSION: Edited on line, and comments will be integrated in the version presented to CN#18.

RESULT: The document was **NOTED.**

12.2 Specification Review

N3-020960 **Status of CN3 specifications following SA#17, source MCC.** Presented by David Boswarthick of MCC.

CONTENT: Details the status of CN3s specifications following CN#17 meeting.

DISCUSSION: Replacement required to replace Rune Werner Wiik (Ericsson) who was the active rapporteur for 27.001, 27.002, 27.003 and 23.910.

Norbert took the opportunity to thank Rune for all the excellent work he has done in CN3, and wished him all the best in his retirement.

Ragnar Huslende volunteered to take over the rapporteur responsibility of 27.001, 27.002, 27.003 and 23.910.

MCC will update the SPEC DATABASE.

RESULT: The document was **NOTED.**

12.3 Next meetings, allocation of hosts

Dec 2002				
3GPPCN-#18	OR	4 - 6 Dec 2002	New Orleans	US
Feb 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	10 - 14 Feb 2003	Dublin [Ireland]	
Mar 2003				
3GPPCN-#19	OR	12 - 14 Mar 2003	***Birmingham [Possibly]***	UK
May 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	19 - 23 May 2003	***Somewhere, NA Friends***	
Jun 2003				
3GPPCN-#20	OR	4 - 6 Jun 2003	HÄMEENLINNA	FI
Aug 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	18 - 22 Aug 2003	Sophia, ETSI	`
Sep 2003				
3GPPCN-#21	OR	17 - 19 Sep 2003	***[most probably Berlin]***	DE
Oct 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	27 - 31 Oct 2003	China, Ericsson	***CN***
Dec 2003				
3GPPCN-#22	OR	10 - 12 Dec 2003	Hawaii, USA, NA JP Friends	US

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	Title	LS To	LS Cc	LS Attachment
N3-021012	Reply LS on RTCP overhead in SDP bandwidth	SA4	SA2	

1 LS agreed at this meeting

13.3 TRs / TSs

The following TR/TSs were agreed by CN3, and are to be sent to the next TSG-CN Plenary (for information):

Tdoc	Type	Title	Source	Spec	Rel
N3-021028	TR	Signalling Interworking between the 3GPP Profile of SIP and non-3GPP SIP Usage	CN3	29.962	Rel-6

1 TR/TS agreed at this meeting

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	Title	Spec	CR	Rev	Cat	Rel	C_Ver	Work Item
N3-021005	RADIUS enhancement for identification of VPLMN	09.61	A039	1	F	R97		TEI
N3-021006	RADIUS enhancement for identification of VPLMN	09.61	A040	1	A	R98		TEI
N3-020999	Mobile originating BC handling for SCUDIF calls	23.172	003	3	F	Rel-5		SCUDIF
N3-021000	Service Change Procedure	23.172	004	2	F	Rel-5		SCUDIF
N3-021001	Mobile originating BC handling for SCUDIF calls	27.001	082	4	F	Rel-5		SCUDIF
N3-020929	Multiplexing IMS media components to PDP contexts	27.060	077		F	Rel-5	5.2.0	E2EQoS
N3-021016	Editorial improvments and an error correction	27.060	078	1	F	Rel-5		E2EQoS
N3-021017	Policy control rejection of PDP context	27.060	079	1	F	Rel-5		E2EQoS
N3-020998	Mobile originating BC handling for SCUDIF calls	29.007	060	3	F	Rel-5		SCUDIF
N3-020935	Handling of binding information by GGSN	29.061	067	3	F	Rel-5		E2EQoS
N3-020920	RADIUS enhancement for identification of VPLMN	29.061	070		A	R99	3.10.0	TEI
N3-020921	RADIUS enhancement for identification of VPLMN	29.061	071		A	Rel-4	4.5.0	TEI
N3-020922	RADIUS enhancement for identification of VPLMN	29.061	072		A	Rel-5	5.3.0	TEI
N3-020902	Correction related to IPv6	29.061	068		F	R99	3.10.0	TEI
N3-020903	Corrections related to IPv6	29.061	069		F	Rel-4	4.5.0	TEI
N3-020983	Handling of binding information by GGSN	29.207	039	4	F	Rel-5		E2EQoS
N3-020980	Connection failure between PCF and GGSN	29.207	040	4	F	Rel-5		E2EQoS
N3-021024	Clarifications on Early Media	29.207	049	3	F	Rel-5		E2E QoS
N3-021025	Clarification on the authorized bandwidth for RTP media streams	29.207	051	2	F	Rel-5		e2eQoS
N3-020905	Added reference to TS29.208	29.207	052		D	Rel-5	5.1.0	e2eQoS
N3-020985	Re-Using filters from the IETF Framework PIB	29.207	053	1	F	Rel-5		E2EQoS IW
N3-020978	Update reference [11]	29.207	056	1	F	Rel-5		E2EQoS
N3-020987	IANA numbers: COPS client-type and PIB branch number	29.207	057	1	F	Rel-5		E2EQoS
N3-020989	PIB references and clarifications	29.207	059	1	F	Rel-5		E2EQoS IW
N3-020990	Changes to GGSN behavior when no binding information	29.207	060	2	F	Rel-5		IMS-CCR
N3-020993	Clarification on use of charging correlation information	29.207	061	1	F	Rel-5		E2EQoS
N3-021004	GTP cause code for Go related errors	29.207	063	1	F	Rel-5		E2EQoS
N3-021026	Replacement of DiffServ class with QoS class	29.207	064	3	F	Rel-5		E2EQoS
N3-021023	Update of Device Capabilities and Limitations section	29.207	065	2	F	Rel-5		E2EQoS
N3-020946	Corrections in Message Description Section	29.207	066		F	Rel-5	5.1.0	E2EQoS
N3-020948	PCF to PDF Change	29.207	067		F	Rel-5	5.1.0	IMS-CCR
N3-020953	DiffServ Class definition for UL and DL in the Go interface	29.207	068		F	Rel-5	5.1.0	E2EQoS
N3-020995	Go FailDecReason mapping to PCO error codes	29.207	069	1	F	Rel-5		E2EQoS
N3-021022	Go PIB clarifications	29.207	071	2	F	Rel-5		E2EQoS IW
N3-020988	Coding for Go related error codes	29.207	072		F	Rel-5		E2EQoS
N3-021010	PCF by PDF substitution.	29.208	013	1	F	Rel-5		E2EQoS IW
N3-020932	Removal of editors note regarding calculation of b=AS	29.208	014		F	Rel-5	5.1.0	E2EQoS
N3-021014	Replacement of DIFFSERV class by QoS Class	29.208	018		F	Rel-5		E2EQoS
N3-020950	CS Data Services (including HSCSD and EDGE) for GERAN Iu	48.020	003	4	B	Rel-5	5.1.0	GERAN Iu mode

45 CRs AGREED at this meeting

13.5 Other

Two Open issue documents will be sent to the next plenary for information.

Tdoc	Type	Title	Source	Rel
N3-020984	Report	Open issues for TS29.207, Version 5.0.0	Lucent	Rel-5
N3-021029	Report	Open issues for TS29.208 Version 5.0.0	Lucent	Rel-5

14 Any other business

The election of a CN3 V.chair will be examined and a future election announced when deemed necessary.

15 Close of meeting

Norbert closed the 26th CN3 meeting on Friday 15th November at 16:30, 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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18 attendees at this meeting

Annex B: List of documents

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-020883	Agenda	Draft Agenda CN3#26	CN3 Chair							
N3-020884	DAD	Allocation of documents to agenda items (at deadline)	CN3 Chair							
N3-020885	DAD	Allocation of documents to agenda items (at start of day 1)	CN3 Chair							
N3-020886	DAD	Allocation of documents to agenda items (at start of day 2)	CN3 Chair							
N3-020887	DAD	Allocation of documents to agenda items (at start of day 3)	CN3 Chair							
N3-020888	DAD	Allocation of documents to agenda items (at start of day 4)	CN3 Chair							
N3-020889		<<< Resv CN3 chair >>>								Withdrawn
N3-020890	Report	Draft Meeting Report from CN3#25	MCC							Revised in N3-020976
N3-020891	Work Plan	3GPP Workplan	MCC							Noted
N3-020892	LS in	Re. LS to Liaison statement on DTMF	TSG CN WG1							Noted
N3-020893	LS in	Re. LS on RTCP overhead in SDP bandwidth parameter	TSG CN WG1							Noted
N3-020894	LS in	LS on CS data services for GERAN Iu-mode	TSG CN WG1							Noted
N3-020895	LS in	LS on Interoperability Issues and SIP in IMS	TSG CN WG1							Noted
N3-020896	LS in	Re. LS on Review of TR on 3GPP SIP Profile interworking	TSG CN WG1							Noted
N3-020897	LS in	Re. LS on " RTCP overhead in SDP bandwidth parameter "	TSG SA WG4							Noted
N3-020898	LS in	LS on Structure of IMS Charging Identifier (ICID)	TSG SA WG5							Noted
N3-020899	LS in	LS on proposed list of core IMS specifications for Access Independence	TSG SA WG2							Noted
N3-020900	LS in	LS on SBLP control of DiffServ	TSG SA WG2							Noted
N3-020901	CR	SRNS Relocation For SCUDIF Calls	Ericsson	SCUDIF	23.172	005	0	F	Rel-5	Withdrawn
N3-020902	CR	Correction related to IPv6	Ericsson	TEI	29.061	068	0	F	R99	Agreed
N3-020903	CR	Corrections related to IPv6	Ericsson	TEI	29.061	069	0	F	Rel-4	Agreed
N3-020904	CR	Clarification on the authorized bandwidth for RTP media streams	Ericsson	e2eQoS	29.207	051	0	F	Rel-5	Revised in N3-021019
N3-020905	CR	Added reference to TS29.208	Ericsson	e2eQoS	29.207	052	0	D	Rel-5	Agreed
N3-020908	CR	Re-Using filters from the IETF Framework PIB	Nortel Networks, Ericsson, Nokia	E2EQoS IW	29.207	053	0	F	Rel-5	Revised in N3-020985
N3-020909	CR	Correction to table 4.3.1.1.1	Nortel Networks, Nokia	E2EQoS IW	29.207	054	0	F	Rel-5	Rejected
N3-020910	CR	PCF by PDF substitution.	Nortel Networks	E2EQoS IW	29.207	055	0	F	Rel-5	Withdrawn
N3-020911	CR	PCF by PDF substitution.	Nortel Networks	E2EQoS IW	29.208	013	0	F	Rel-5	Revised in N3-021010

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-020912	CR	Update reference [11]	Nortel Networks	E2EQoS IW	29.207	056	0	F	Rel-5	Revised in N3-020978
N3-020913	CR	IANA numbers: COPS client-type and PIB branch number	Nortel Networks	E2EQoS IW	29.207	057	0	F	Rel-5	Revised in N3-020987
N3-020914	WID	Release 6 version of dynamic control of DiffServ Edge Function.	Nortel Networks							Revised in N3-021013
N3-020915	CR	Multiple Media Authorization Tokens	Nortel Networks	E2EQoS IW	29.207	058	0	F	Rel-5	Revised in N3-021015
N3-020916	CR	PIB references and clarifications	Nortel Networks, Nokia	E2EQoS IW	29.207	059	0	F	Rel-5	Revised in N3-020989
N3-020917	Discussion	Content restriction for roaming GPRS subscribers	Vodafone							Noted
N3-020918	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	09.61	A039	0	F	R97	Revised in N3-021005
N3-020919	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	09.61	A040	0	A	R98	Revised in N3-021006
N3-020920	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	29.061	070	0	A	R99	Agreed
N3-020921	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	29.061	071	0	A	Rel-4	Agreed
N3-020922	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	29.061	072	0	A	Rel-5	Agreed
N3-020923	CR	Changes to GGSN behavior when no binding information received.	Hutchison3G	IMS-CCR	29.207	060	0	F	Rel-5	Revised in N3-020979
N3-020924	Report	Open issues for TS29.207, Version 5.0.0	MCC							Revised in N3-020984
N3-020925	Report	Open issues for TS29.208 Version 5.0.0	MCC							Revised in N3-021009
N3-020926	Discussion	Changes to GGSN behavior when no binding information	Hutchinson3G							Noted
N3-020927	CR	Clarification on use of charging correlation informartion	NEC	E2EQoS	29.207	061	0	F	Rel-5	Revised in N3-020993
N3-020928	CR	Clarification on PIB regarding the use of charging correlation informartion	NEC	E2EQoS	29.207	062	0	F	Rel-5	Withdrawn
N3-020929	CR	Multiplexing IMS media components to PDP contexts	Ericsson	E2EQoS	27.060	077	0	F	Rel-5	Agreed
N3-020930	CR	Editorial improvments and an error correction	Ericsson	E2EQoS	27.060	078	0	F	Rel-5	Revised in N3-021016
N3-020931	CR	Policy control rejection of PDP context	Ericsson	E2EQoS	27.060	079	0	F	Rel-5	Revised in N3-021017
N3-020932	CR	Removal of editors note regarding calculation of b=AS	Ericsson	E2EQoS	29.208	014	0	F	Rel-5	Agreed
N3-020933	CR	GTP cause code for Go related errors	Nokia, Ericsson	E2EQoS	29.207	063	0	F	Rel-5	Revised in N3-021004
N3-020934	Discussion	TR on SIP interworking	Nokia, Ericsson							Revised in N3-021028
N3-020935	CR	Handling of binding information by GGSN	Nokia, Ericsson	E2EQoS	29.061	067	3	F	Rel-5	Agreed
N3-020936	CR	Handling of binding information by GGSN	Nokia, Ericsson	E2EQoS	29.207	039	3	F	Rel-5	Revised in N3-020983
N3-020937	CR	Connection failure between PCF and GGSN	Nokia, Ericsson	E2EQoS	29.207	040	3	F	Rel-5	Revised in N3-020980
N3-020938	CR	Speech codec selection for SCUDIF calls	Ericsson							Withdrawn
N3-020939	CR	Speech codec selection for SCUDIF calls	Ericsson	SCUDIF	23.172	002	1	F	Rel-5	Withdrawn
N3-020940	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	23.172	003	2	F	Rel-5	Revised in N3-020999

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-020941	CR	Service Change Procedure	Ericsson	SCUDIF	23.172	004	1	F	Rel-5	Revised in N3-021000
N3-020942	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	27.001	082	2	F	Rel-5	Revised in N3-020997
N3-020943	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	29.007	060	2	F	Rel-5	Revised in N3-020998
N3-020944	CR	Replacement of DiffServ class with QoS class	Siemens	E2EQoS	29.207	064	0	F	Rel-5	Revised in N3-020986
N3-020945	CR	Update of Device Capabilities and Limitations section	Siemens	E2EQoS	29.207	065	0	F	Rel-5	Revised in N3-020991
N3-020946	CR	Corrections in Message Description Section	Siemens	E2EQoS	29.207	066	0	F	Rel-5	Agreed
N3-020947	CR	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile	E2E QoS	29.208	015	0	F	Rel-5	Revised in N3-020981
N3-020948	CR	PCF to PDF Change	Lucent Technologies	IMS-CCR	29.207	067	0	F	Rel-5	Agreed
N3-020949	CR	PCF to PDF Change	Lucent Technologies	IMS-CCR	29.208	016	0	F	Rel-5	Withdrawn
N3-020950	CR	CS Data Services (including HSCSD and EDGE) for GERAN Iu mode	Siemens	GERAN Iu mode	48.020	003	4	B	Rel-5	Agreed
N3-020951	CR	Preferred Framing Protocol	Ericsson	PFP	29.007	061	1	B	Rel-6	Postponed to future meeting
N3-020952	Discussion	Preferred Framing Protocol	Ericsson							Noted
N3-020953	CR	DiffServ Class definition for UL and DL in the Go interface	Nokia	E2EQoS	29.207	068	0	F	Rel-5	Agreed
N3-020954	CR	Go FailDecReason mapping to PCO error codes	Nokia	E2EQoS	29.207	069	0	F	Rel-5	Revised in N3-020995
N3-020955	CR	RTCP overhead vs. SDP bandwidth	Nokia	E2EQoS	29.208	017	0	F	Rel-5	Withdrawn
N3-020956	CR	TFT handling in the UE	Nokia	E2EQoS	27.060	080	0	F	Rel-5	Withdrawn
N3-020957	CR	TFT handling in the GGSN	Nokia	E2EQoS	29.207	070	0	F	Rel-5	Withdrawn
N3-020958	Discussion	Interworking between IM CN subsystem and CS networks	Nokia							Endorsed
N3-020959	[CR]	Mn signalling interactions and procedures	Nokia	IMS-CCR-IWCS	29.163			F	Rel-6	Revised in N3-021021
N3-020960	Discussion	Status of CN3 specifications following NP#17	MCC							Noted
N3-020961	CR	Go PIB clarifications	Nortel Networks	E2EQoS IW	29.207	071	0	F	Rel-5	Revised in N3-020996
N3-020962	CR	Clarifications on Early Media	Siemens	E2E QoS	29.207	049	1	F	Rel-5	Revised in N3-021007
N3-020963	TR	Draft TR on SIP profile interworking as Output of editing session with CN1 experts	Siemens							Endorsed
N3-020964	Discussion	Comments on end-to-end callflows in TR on SIP profile interworking	Siemens							Noted
N3-020965	Discussion	Proposal for Insertion on static B2B UA, for draft TR on SIP interworking	Siemens							Postponed to future meeting
N3-020966	Discussion	Relevant Charging mechanisms to be considered in draft TR on SIP interworking	Siemens							Postponed to future meeting
N3-020967	Discussion	General rules for B2B UA in draft TR on SIP interworking	Siemens							Withdrawn
N3-020968	Discussion	Proposals for end-to-end callflows in mobile terminating case for draft TR on SIP interworking	Siemens							Postponed to future meeting
N3-020969	Discussion	Support of Early Media	Siemens							Noted

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-020970	Discussion	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile							Revised in N3-020982
N3-020971	Discussion	Comments on Usage of Bearer Modification for SCUDIF	Siemens							Noted
N3-020972	CR	Usage of Bearer Modification for SCUDIF	Siemens	SCUDIF	23.172	006	0	F	Rel-5	Not agreed
N3-020973		NOT USED - Reserved by MCC	MCC							Withdrawn
N3-020974	Discussion	Proposed Changes on end-to-end callflows in TR on SIP profile interworking	Siemens							POSTPONED to future meetings
N3-020975	Discussion	Local policy decisions at GGSN	Nokia							Noted
N3-020976	Report	Draft Meeting Report from CN3#25	MCC							Approved
N3-020977	WID	Draft WID for Enhanced Tandem Free Operation	Nortel							Noted
N3-020978	CR	Update reference [11]	Nortel Networks	E2EQoS	29.207	056	1	F	Rel-5	Agreed
N3-020979	CR	Changes to GGSN behavior when no binding information received.	Hutchison3G	IMS-CCR	29.207	060	1	F	Rel-5	Revised in N3-020990
N3-020980	CR	Connection failure between PCF and GGSN	Nokia, Ericsson	E2EQoS	29.207	040	4	F	Rel-5	Agreed
N3-020981	CR	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile	E2E QoS	29.208	015	1	F	Rel-5	Revised in N3-021015
N3-020982	Discussion	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile							Revised in N3-021018
N3-020983	CR	Handling of binding information by GGSN	Nokia, Ericsson	E2EQoS	29.207	039	4	F	Rel-5	Agreed
N3-020984	Report	Open issues for TS29.207, Version 5.0.0	Lucent							Approved
N3-020985	CR	Re-Using filters from the IETF Framework PIB	Nortel Networks, Ericsson, Nokia	E2EQoS IW	29.207	053	1	F	Rel-5	Agreed
N3-020986	CR	Replacement of DiffServ class w ith QoS class	Siemens	E2EQoS	29.207	064	1	F	Rel-5	Revised in N3-021020
N3-020987	CR	IANA numbers: COPS client-type and PIB branch number	Nortel Networks	E2EQoS	29.207	057	1	F	Rel-5	Agreed
N3-020988	CR	Coding for Go related error codes	Nokia	E2EQoS	29.207	072	0	F	Rel-5	Agreed
N3-020989	CR	PIB references and clarifications	Nortel Networks, Nokia	E2EQoS IW	29.207	059	1	F	Rel-5	Agreed
N3-020990	CR	Changes to GGSN behavior when no binding information received.	Hutchison3G	IMS-CCR	29.207	060	2	F	Rel-5	Agreed
N3-020991	CR	Update of Device Capabilities and Limitations section	Siemens	E2EQoS	29.207	065	1	F	Rel-5	Revised in N3-021023
N3-020992	Discussion	framing protocol reqyuirementd for CS protocols	Siemens							Postponed
N3-020993	CR	Clarification on use of charging correlation informartion	NEC	E2EQoS	29.207	061	1	F	Rel-5	Agreed
N3-020994	LS in	Liaison statement on Interoperability Issues and SIP in IMS	TSG SA WG3							Noted
N3-020995	CR	Go FailDecReason mapping to PCO error codes	Nokia	E2EQoS	29.207	069	1	F	Rel-5	Agreed
N3-020996	CR	Go PIB clarifications	Nortel Networks	E2EQoS IW	29.207	071	1	F	Rel-5	Revised in N3-021022
N3-020997	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	27.001	082	3	F	Rel-5	Revised in N3-021001
N3-020998	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	29.007	060	3	F	Rel-5	Agreed

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-020999	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	23.172	003	3	F	Rel-5	Agreed
N3-021000	CR	Service Change Procedure	Ericsson	SCUDIF	23.172	004	2	F	Rel-5	Agreed
N3-021001	CR	Mobile originating BC handling for SCUDIF calls	Ericsson	SCUDIF	27.001	082	4	F	Rel-5	Agreed
N3-021002	LS in	LS IN from CN1 on SDLP headers	CN1							Noted
N3-021003	LS out	Reply LS on RTCP overhead in SDP bandwidth parameter	Nokia							Revised in N3-021008
N3-021004	CR	GTP cause code for Go related errors	Nokia, Ericsson	E2EQoS	29.207	063	1	F	Rel-5	Agreed
N3-021005	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	09.61	A039	1	F	R97	Agreed
N3-021006	CR	RADIUS enhancement for identification of VPLMN	Vodafone	TEI	09.61	A040	1	A	R98	Agreed
N3-021007	CR	Clarifications on Early Media	Siemens	E2E QoS	29.207	049	2	F	Rel-5	Revised in N3-021024
N3-021008	LS out	Reply LS on RTCP overhead in SDP bandwidth parameter	Nokia							Revised in N3-021011
N3-021009	Report	Open issues for TS29.208 Version 5.0.0	MCC							Revised in N3-021027
N3-021010	CR	PCF by PDF substitution.	Nortel Networks	E2EQoS IW	29.208	013	1	F	Rel-5	Agreed
N3-021011	LS out	Reply LS on RTCP overhead in SDP bandwidth parameter	Nokia							Revised in N3-021012
N3-021012	LS out	Reply LS on RTCP overhead in SDP bandwidth parameter	Nokia							Approved
N3-021013	WID	End to end QoS stage 3	Nortel Networks							Not agreed
N3-021014	CR	Replacement of DIFFSERV class by QoS Class	Lucent	E2EQoS	29.208	018	0	F	Rel-5	Agreed
N3-021015	CR	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile	E2E QoS	29.208	015	2	F	Rel-5	Withdrawn
N3-021016	CR	Editorial improvements and an error correction	Ericsson	E2EQoS	27.060	078	1	F	Rel-5	Agreed
N3-021017	CR	Policy control rejection of PDP context	Ericsson	E2EQoS	27.060	079	1	F	Rel-5	Agreed
N3-021018	Discussion	Re-Introduction of Streaming Class to PCF QoS-Mapping	T-Mobile							Noted
N3-021019	CR	Clarification on the authorized bandwidth for RTP media streams	Ericsson	e2eQoS	29.207	051	1	F	Rel-5	Revised in N3-021025
N3-021020	CR	Replacement of DiffServ class with QoS class	Siemens	E2EQoS	29.207	064	2	F	Rel-5	Revised in N3-021026
N3-021021	[CR]	Mn signalling interactions and procedures	Nokia, Siemens	IMS-CCR-IWCS	29.163		1	F	Rel-6	E-mail discussion
N3-021022	CR	Go PIB clarifications	Nortel Networks	E2EQoS IW	29.207	071	2	F	Rel-5	Agreed
N3-021023	CR	Update of Device Capabilities and Limitations section	Siemens	E2EQoS	29.207	065	2	F	Rel-5	Agreed
N3-021024	CR	Clarifications on Early Media	Siemens	E2E QoS	29.207	049	3	F	Rel-5	Agreed
N3-021025	CR	Clarification on the authorized bandwidth for RTP media streams	Ericsson	e2eQoS	29.207	051	2	F	Rel-5	Agreed
N3-021026	CR	Replacement of DiffServ class with QoS class	Siemens	E2EQoS	29.207	064	3	F	Rel-5	Agreed
N3-021027	Report	Open issues for TS29.208 Version 5.0.0	Lucent							Revised in N3-021029

Tdoc	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-021028	TR	TR on SIP interworking	Siemens							Approved
N3-021029	Report	Open issues for TS29.208 Version 5.0.0	Lucent							Approved

145 documents treated at this meeting

History:

Document History	
9th-15th November 2002	DRAFT v0.0.1 -> 0.0.5 distributed in the meeting.
22nd November 2002	DRAFT v1.0.0 dispatched by e-mail exploder to the CN3 list. Comments, if any, to be addressed to: David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secretariat Tel :+33 (0)4 92 94 42 78 e-mail: *david.boswarthick@ETSI.fr* A deadline of 3 weeks was given to the CN3 delegates for e-mail comments on the draft report. **Comments back by 16th December**
xxx	Updated DRAFT v2.0.0 placed to the server
xx Feb. 2003	N3-020 [v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#27 meeting. Updated to N3-020xyz and placed to the server as v3.0.0.