



## Third Generation Partnership Project

Meeting Report v3.0.0  
for  
3GPP TSG CN WG 3  
Meeting #31bis

Sophia, France  
30<sup>th</sup> March – 2<sup>nd</sup> April 2004.



Hosted by  
ETSI

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## 1. Opening of the Meeting

The CN3 Chairman Mr. Norbert Klehn opened the meeting at 10:00 on Tuesday. David Boswarthick of ETSI welcomed the CN3 delegates on behalf of the hosts.

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## 2 Approval of the agenda

**N3-040136:** CN3#31b Draft Meeting Agenda, source CN3 Chairman.

**CONTENT:** Contains the draft agenda for CN3#31b Meeting.

**RESULT:** The Agenda was **APPROVED**.

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## 3 Registration of documents

**N3-040137:** Allocation of documents to agenda items (at deadline), source CN3 Chairman.

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

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

**N3-040138:** Allocation of documents to agenda items (at start of day 1), source CN3 Chairman.

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

**N3-040139:** Allocation of documents to agenda items (at end of day 1), source CN3 Chairman.

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

**N3-040140:** Allocation of documents to agenda items (at end of day 3), source CN3 Chairman.

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

**N3-040141:** Allocation of documents to agenda items (at end of day 4), source CN3 Chairman.

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

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## 4 Reports

### 4.1 Report of last CN3 Meeting

**N3-040201:** **CN3#31 Draft Meeting Report, source MCC.**

**CONTENT:** Contains the draft meeting report for the CN3#31.

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:** xx

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

### 4.2 Reports from last CN

**N3-040142:** **Brief notice from CN#23 relevant for CN3, source CN3 Chairman.**

**CONTENT:** Contains the email from CN3 chair to CN3 email exploder containing hi-lights of CN#23.

1. CN3's status report given in NP-040119 was noted. It is an update of NP-040077 in order to reflect the comments received via the CN3 mailing list. The meeting report of CN3#31 (Atlanta) by MCC provided in NP-040078 was also noted.
2. The liaison statements sent by CN3 are contained in NP-040079. They were noted.
3. CN3's change requests provided in the documents NP-040080 – NP-040084 were approved as provided by CN3.
4. NP-040085 (N3-040114: CR 29.061 on IMEISV Passed on the Gi Interface) was revised to NP-040148 and approved.
5. NP-040086 (N3-040115: CR 23.172 on Network-Initiated Service Change) was revised to NP-040147 and approved under the condition that the related CR by SA1 specifying the requirements will be approved by SA#23.
6. The revisions of the CRs were necessary due to failures in the cover sheet. The content of the CRs was not changed. Main reasons for revisions and comments were:-
  - the revised clauses in the CR were not inline with the cover sheet information under "clauses affected"
  - the wrong WI code was used
  - the information under "consequences if not approved" were very weak; consequences have to be defined in detail; it is not sufficient to refer to inconsistent specifications or to possible misinterpretation; it is necessary to describe what can go wrong.
7. CN#23 has approved the updated WID on "IMS Stage-3 Enhancements" (NP-040034) that has some impact on CN3. It was added that CN1 has to specify the end-to-end aspects for interworking with other IP networks; especially the SIP and SDP parts. CN3 has to review the related WID on "Interworking between IMS and IP networks" in order to reflect the new work split. The new work split is a result of CN3's work provided in TR 29.962 and the subsequent decisions based to this study.
8. T-Mobile presented a discussion document proposing to use Diameter on the PDG Wi and the GGSN Gi interface (NP-040118). CN#23 recommended presenting this document to CN3. The need for a new WID was considered as very likely.
9. IETF has provided 3GPP with a range of command codes for Diameter and assumes that 3GPP is dealing with them in the same manner as IETF is doing it (same code is always used in the same sense on the different reference points). IETF also specifies that per vendor ID AVP codes should be unique. The number of reference points which are based on Diameter is increasing (and now split over 3 WGs). AVP's are usually identified by vendor ID and AVP code, application IDs assigned to each interface by IANA are not taken into account when evaluating the AVP. Therefore, CN#23 has endorsed that CN4 should take over a coordinating role. CN4 will create a specification

which is used to realize the coordination. Related contributions are expected for the CN4 next meeting. CN4 will maintain the code allocation for Diameter and will also be responsible for the coordination and communication with IETF regarding Diameter. CN3 has to follow this policy.

CN3 chair contacted the CN4 chair who provided the following clarifications:

*All requests for application IDs will be coordinated via CN4.*

*All AVP values under the 3GPP vendor ID will be coordinated via CN4.*

*CN4 also coordinates the Command codes (some of which were related to Rel-5).*

*CN4 will send a LS to related groups explaining this coordination role.*

**DISCUSSION:** T-mobile have not (yet) presented the discussion document proposing to use Diameter on the PDG Wi to CN3. Stefan Koppenborg will check this and provide this document later in the meeting.

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

**N3-040143: Email on Highlights of CN#23/SA#23, source CN Chairman.**

**CONTENT:** Contains the email from CN chair to CN email exploder containing hi-lights of TSG#23. It was agreed in SA that CN3 is responsible for the Gx and Rx interfaces.

**DISCUSSION:** Nokia has concerns with the timescales for completion of a new interface in the release timescale, it is very late to receive new requirements. Content of Rel-6 will be frozen in September 2004. No new functions can be added after this time, but change requests to complete existing functionality are allowed.

CN3 were allocated the Gx and Rx because there is some similarities with the Gq and Go interfaces

CN3 agreed to take the interfaces but have concerns over the timing and maybe the lack of expertise in charging. May need some joint sessions with SA5 SWGB.

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

### 4.3 Reports of other groups

No documents for this agenda item

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## 5 IPR disclosures

### Reminder for IPR declaration

The chairman made the following call for IPRs, and asked ETSI members to check the latest version of ETSI's policy available on the web server:

The attention of the members of this Technical Specification Group is drawn to 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 members take note that they are hereby 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 the Technical Specification Group.
- to notify the Director-General, or the 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 (e.g. see the ETSI IPR forms <http://webapp.etsi.org/lpr/>).

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## 6 Items for immediate consideration

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

*No input to this agenda item.*

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## 7 Received Liaison Statements

**N3-040144** **LS on “P-CSCF gets informed about signalling IP-CAN bearer was released”, CN1.**

**CONTENT:** During the CN1#33 it was discussed how the P-CSCF can get aware that a UE has released or dropped the IP-CAN bearer that is used for SIP signalling (either dedicated or general IP-CAN bearer). This information could e.g. be used to trigger the P-CSCF to clear the state information related to that UE.

However it was stated during the discussion that the PDF as well as the P-CSCF will not be informed by the GGSN when a signalling IP-CAN bearer is released by the UE. Reasons mentioned are that the Go interface does not provide the appropriate means.

CN1 asks SA2 and CN3 to study the above case and give clarification whether the P-CSCF gets informed about the release of a signalling IP-CAN bearer

**DISCUSSION:** Go interface does not provide any information about the IP signalling bearer. This is dependant on how the IP bearer is configured. It is therefore not possible to provide that info to the P-CSCF. A response LS was sent back to CN1 in [N3-040205].

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

**N3-040205** **Re. LS on “P-CSCF gets informed about signalling IP-CAN bearer was released”, CN3.**

**CONTENT:** CN3 answer CN1’s question whether the P-CSCF gets informed by the GGSN about the release of a signalling IP-CAN bearer via the Go interface.

**DISCUSSION:** Some minor wording and spelling modifications. Decided to remove the last paragraph.

**RESULT:** The document was **REVISED to 0226**.

β **REVISED** β

**N3-040226** **Re. LS on “P-CSCF gets informed about signalling IP-CAN bearer was released”, CN3.**

**DISCUSSION:** Meeting names/dates wrong.

**RESULT:** The document was **REVISED to 0233**.

β **REVISED** β

**N3-040233** **Re. LS on “P-CSCF gets informed about signalling IP-CAN bearer was released”, CN3.**

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

**N3-040145** **LS on the availability of charging information, CN1.**

**CONTENT:** CN1 discussed the possibility in Release 5 for the P-CSCF upon receiving the access network charging information to include the P-Charging-Vector in the next request towards the S-CSCF rather than only the UPDATE request as it is currently stated in 24.229. This was to address the case in which the UPDATE is either not sent by the UE or passes though the P-CSCF before the charging information is available. This could occur due to a mis-behaving UE which is deliberately trying to disrupt the charging mechanisms.

Concerns were expressed that the charging information may be provided to the S-CSCF very late in the session (at worst in the BYE) and thus the session would have been authorised (gates opened) before the charging information was available at the S-CSCF. The concern was that the proposed solution did not address this problem. However, it was noted that the problem exists presently, since it is possible that the charging information may not be sent to the S-CSCF at all. The behaviour of the network in this case does not appear to be specified.

CN1 therefore seeks clarification on the following questions:

- 1) Which entity (P-CSCF or S-CSCF) should be responsible for checking that charging information is available before authorising the session (i.e. opening the gates)?
- 2a) If it is the P-CSCF, what action should the P-CSCF take if charging information is not available at the P-CSCF (therefore not sent to the S-CSCF at all). Also what problems are caused if charging information is available at the P-CSCF but sent to S-CSCF late in the session?
- 2b) If it is the S-CSCF, what action should the S-CSCF take if the charging information is not available at the time the session is authorised?
- 3) Currently, the transport of charging information from the P-CSCF to the S-CSCF is dependent on the UE. Should the propagation of the charging information be tied to a request from the UE?
- 4) Should the Rel-5 solution apply in the same way to Rel-6?

CN1 asks SA2 to provide clarification on the questions above.

**DISCUSSION:** CN3 will await action from SA2.

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

#### **N3-040146 LS Response on IP Flow Based Bearer Level Charging, CN2.**

**CONTENT:** CN2 comments to SA2's work on IP Flow Based Charging in TR 23.825.

CN2 has checked the information flows in the associated CR (S2-040488) and has concluded that some of the relevant non-prepay related CAMEL information will be not be provided to the GGSN by this mechanism.

In particular, the Create PDP Context Request is sent before all of the required charging data is present. In the procedure CAMEL\_GPRS\_PDP\_Context\_Establishment\_Acknowledgement (3GPP TS 23.078) triggering takes place after this request is sent. (see C2 in section 9.2.2.1.1 of 3GPP TS 23.060).

In addition, some S-CDR CAMEL information fields become available during CAP dialogue (e.g. free format charging data, default GPRS handling etc).

CN2 believes that the procedure CAMEL\_GPRS\_PDP\_Context\_Disconnection (C1 in section 6.6.1 of 3GPP TS 23.060, MS Initiated Detach Procedure) could provide all of the required information after it has been executed. CN2 does not know if this is feasible from the GTP point of view.

**DISCUSSION:** No impact on CN3's work.

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

#### **N3-040147 Reply LS on call hold requirement for CS multimedia, CN4.**

**CONTENT:** CN4 reviewed the CR attached to the LS (S1-040123) and advises against the approval of this CR at this time. The CR reflects one small part of the possible work on this subject, but CN4 feels that there would need to be consideration across a number of other working groups to determine whether the development of the mechanisms required to place CS multimedia calls on hold is realistically achievable and what those mechanisms should be. At a minimum, the work would need to include SA2, CN3 and T2 as well as possibly CN1 and SA4.

CN4 believes it would be better for SA1 to prepare a Work Item Description for the work on this subject in order to correctly track associated work in other groups.

CN4 asks SA1 group to note the recommendations given on the CR SA1 has sent to CN4 (S1-040123) and to prepare a WID to track the introduction of this feature which reflects the wider scope of the changes that may be needed to complete this work. CN4 also recommends that other groups are consulted on possible mechanisms for implementing this feature.



**DISCUSSION:** Interested companies should study this issue, and bring contributions as required. CN4 have informed SA1 that they have some doubts about SA1's CR. CN3 have no additional action to this LS. It was questioned why the SA1 LS went to CN4 and not also CN3, where the expertise for circuit switched services is held. Lucent will inform SA1 of the CN3 concerns. (SA1 meeting 10<sup>th</sup> May).

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

**N3-040148 LS on the use of GTP for WLAN-GPRS interworking, CN4.**

**CONTENT:** In this LS, CN4 reply to SA2's questions on the use of GTP for WLAN—GPRS interworking.

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

**N3-040149 LS Reply to Request for close cooperation on future NGN Standardisation, SA.**

**CONTENT:** 3GPP support the TISPAN decision to use IMS as a component of NGN. 3GPP supports the necessary enhancements to IMS within 3GPP carried out under the normal 3GPP Work Item process. 3GPP work items for NGN harmonisation would need to be created and approved as per the normal 3GPP process. 3GPP are willing to organize a workshop to discuss the NGN requirements, architecture, and timelines.

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

**N3-040150 LS on multiple IMS sessions using the same PDP Context, SA2.**

**CONTENT:** 3GPP TSG-SA WG2 would like to kindly inform CN3 and CN1 that it has decided to remove the assumption that media components from multiple IMS sessions are not carried in the same PDP Context. Hence, in Release 6 it is allowed to bundle media components from different IMS sessions into the same PDP Context.

SA2 would like to kindly ask for information from CN3 about possible impacts of this change regarding Service-Based Local Policy mechanisms. For information, the relevant stage-2 CRs approved at SA2#38 are attached.

SA2 would like to kindly ask CN3 to point out possible impacts regarding Service-Based Local Policy mechanisms when media components from different IMS sessions are bundled in the same PDP Context.

**DISCUSSION:** This LS was briefly presented in CN3\_31 meeting. Related discussion document in N3-040174.

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

**N3-040151 LS on Resource reservation for session based messaging, SA2.**

**CONTENT:** SA2 would like to kindly inform CN1 that it is in the process of discussing the resource reservation scenarios for session based messaging.

SA2 agreed that in the majority of cases the UE will be able to use an already activated IP-CAN bearer for the session based messaging media traffic. Hence, SA2#38 has decided that when the messaging media component does not require the reservation of additional bearer resources, the UE shall not require the use of the preconditions mechanism from the other endpoint. SA2 believe that this decision will help stage-3 work to progress for this resource reservation scenario, the stage-2 CR approved in this area has been attached.

SA2 plan to address further resource reservation scenarios and relations with Service-Based Local Policy at its next meeting, and will communicate the outcome to CN1 & CN3. In the meantime, SA2 kindly requests CN1&CN3 to focus their stage-3 work for session-based messaging on scenarios not involving SBLP.

SA2 ask CN1 to take the above information into account for the stage-3 work on session-based messaging.

**DISCUSSION:** No impact on CN3 for the moment.

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

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8 VOID

9 VOID

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## 10 Release 6

### 10.1 Interworking between IM subsystem and IP [IW-CCR-IWIP]

*No input to this agenda item.*

**NOTE:** CN1 has approved a new WID for work split on IMS IP interworking. BT (rapporteur) will check if there is a need to update the CN3 WID, and examine what will happen with 29.162.

### 10.2 Interworking between IM Subsystem with CS [IW-CCR-IWCS]

**N3-040161 CR 29.163: Message sequence correction, Nokia.**

**CONTENT:** The order of messages are changed in Figure 37/1, Figure 38/1 and in Figure 39/1 so that 'ACM' message is sent and ringing tone is connected before 200 OK to PRACK is received

**DISCUSSION:** Proposed to move the ACM in the diagrams to the same level as the change.

**RESULT:** The document was **REVISED to 0207.**

**β REVISED β**

**N3-040207 CR 29.163: Message sequence correction, Nokia.**

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

**N3-040162 CR 29.163: Notify IMS RTP Tel Event correction, Nokia.**

**CONTENT:** Confusing and misleading details have been removed from Figure 48 and Originating/terminating case has been corrected.

**DISCUSSION:** Nokia mentioned that the second proposed change was not yet mature. Suggested clarifying this issue by email. The figure 48 changes are extracted and the non contentious changes are revised.

**RESULT:** The document was **REVISED to 0208.**

**β REVISED β**

**N3-040208 CR 29.163: Notify IMS RTP Tel Event correction, Nokia.**

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

**N3-040189 CR 29.163: Interworking with Nb user plane procedures, Lucent.**

**CONTENT:** This CR provides procedures for luFP interworking which are required as part of a TrFO solution.

**DISCUSSION:** Siemens and Ericsson proposed some minor wording changes to the text to provide clarity. Add a reference to 29.415 [26].

Ericsson propose making the frame quality clause (8.1.1.4) into table form. This was examined offline.

Lucent had some editorials to their own document.

Referencing method needs to be checked. Clauses affected in coverpage need to be aligned with the actual change.

Figure 31/2 to remove the TNL and include Nb framing protocol (and below the layer 2 and 3)

**RESULT:** The document was **REVISED to 0209.**

**β REVISED β**

**N3-040209 CR 29.163: Interworking with Nb user plane procedures, Lucent.**

**DISCUSSION:** Changes to headline of subclause 8.1.1 and changes to figure 31/2 required.

**RESULT:** The document was **REVISED to 0234.**

**β REVISED β**

**N3-040234 CR 29.163: Interworking with Nb user plane procedures, Lucent.**

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

**N3-040190 Discussion: Interworking with BICC codec negotiation, Lucent.**

**CONTENT:** This document describes call flows for session origination and mid-call codec negotiation.

**DISCUSSION:** Ericsson supported a separation of this functionality. This functionality should be made optional. Ericsson cannot see the need for this in Rel-6, as we already have the AMR Codec in Rel-6. Ericsson prefer this new functionality to be informative (possibly in an Annex), and then made normative (if required) in future releases.

CN3 agreed to continue with CRs on this issue to create the Annex. It will be decided if it is informative or normative when we see how far CN3 can proceed with the work.

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

**N3-040191 Information: Codec parameter translation IM CN subsystem to BICN, Lucent.**

**RESULT:** The document was **WITHDRAWN BEFORE PRESENTATION.**

### 10.3 Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface **[IW-CCR-Mn]**

*No input to this agenda item.*

### 10.4 Gq interface for Dynamic Policy control enhancements **[QoS1]**

**N3-040152 CR 29.209: Use of the result codes in the Diameter answer messages, Orange.**

**RESULT:** The document was **WITHDRAWN BEFORE PRESENTATION.**

**N3-040153 CR 29.209: Improvements of the sections 6.1 and 6.3, Orange.**

**CONTENT:** Text in clause 6 is improved to reflect that the Diameter application for the Gq interface now uses the 3GPP vendor id.

**DISCUSSION:** It was noted that the following was agreed in CN plenary "It was agreed that CN4 will coordinate the various Diameter codes for 3GPP. This will be documented in a separate specification. SA supported this decision and requested its WGs to go through CN4 for Diameter code allocation".

CN4 has the coordinating role for communications with IANA / IETF for code points. CN4 is writing a specification that lists all of the code points that will become an RFC in IETF.

CN3 does not fully understand CN4 coordinating role with regards to code points in DIAMETER.

Norbert will check with CN4 chairman as to the way of proceeding with the requests for DIAMETER codes. CN3 will list all of their requirements for the codes.

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

- N3-040158**     **Discussion: Concerns on using Proxy/Relay Features of Diameter for Gq, Nortel Networks.**
- CONTENT:**     This contribution provides the basis of discussion for concerns in using the Proxy and/or Relay features of Diameter for the Gq interface
- DISCUSSION:** Other companies had some concerns with the proposal.  
Siemens could support the functionality being optional in Rel-6.  
CN3 suggested to make some restrictions for the use of agents in the IMS case. Nortel will provide CRs to the next CN3 meeting.
- RESULT:**     The document was **NOTED**.
- 
- N3-040159**     **CR 29.209: Gq command codes summary table, Nortel Networks.**
- CONTENT:**     The CR updates the references as well as the introduction of a new table with the complete list of the messages that will be used on the Gq interface.
- DISCUSSION:** Improvements made to the table to include references.
- RESULT:**     The document was **REVISED to 0210**.
- β REVISED β**
- N3-040210**     **CR 29.209: Gq command codes summary table, Nortel Networks.**
- RESULT:**     The document was **WITHDRAWN**.
- 
- N3-040163**     **Discussion: Application level version control in Gq interface, Nokia.**
- CONTENT:**     Nokia proposes to decide the version control issue before the Gq interface drafting for Rel-6 is completed in order to ensure that we have as simple and backward compatible solution as possible to ensure interworking with different nodes as well as possible.  
Nokia propose a solution of Version information in Application Identifier (or in 2.1.2 Version information in version AVP) which they believe to be the simplest one and a good candidate to be considered as the mechanism for Gq interface version control.  
CN4 has not made a final solution and we could wait for the CN3 meeting in May to see if the same solution could be selected for both CN3 and CN4
- DISCUSSION:** Nortel thought it was too late to start discussions in CN4. CN4 are working on this issue and CN3 need to follow the work in CN4.  
CN3 will await CN4's work on this. CN3 need to provide a harmonized solution with CN4 to avoid doing the same work in two groups.
- RESULT:**     The document was **NOTED**.
- 
- N3-040164**     **CR 29.209: Editorial corrections to 29.209, Nokia.**
- CONTENT:**     Contains editorial corrections to the draft TS 29.209.
- RESULT:**     The document was **AGREED**.
- 
- N3-040165**     **CR 29.209: Error case and other considerations, Nokia.**
- RESULT:**     The document was **WITHDRAWN**.
- 
- N3-040166**     **CR 29.209: Service information, Nokia, Siemens.**
- CONTENT:**     Defines new AVPs and their usage.
- DISCUSSION:** Nortel did not agree with this approach, it seems to be too SDP specific.

Siemens mentioned that there was some support in the last CN3 meeting for examining the SDP. Ericsson have a related contribution in 0197.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040197 Discussion: Generic Service Information for Gq, Ericsson.**

**CONTENT:** In this discussion document Ericsson propose two solutions and recommend the use of the solution where the PDF is loosely coupled with AF.

**DISCUSSION:** Nortel see the Ericsson solution to be similar to the Siemens proposal.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040167 CR 29.209: Gq session abort cause codes, Nokia.**

**CONTENT:** The CR defines two new cause codes for the Session-Abort-Cause AVP.

**DISCUSSION:** Requires some text to discriminate where things are reported via the Go, and reported locally.

Better wording is required for "bearer release", to avoid being too PDP specific.

**RESULT:** The document was **REVISED to 0211.**

β **REVISED** β

**N3-040211 CR 29.209: Gq session abort cause codes, Nokia.**

**DISCUSSION:** Further discussions are necessary via e-mail after the meeting.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040168 CR 29.209: Gq result codes, Nokia.**

**CONTENT:** Defines the use of Experimental-Result AVP, and two result codes for an Experimental-Result AVP.

**DISCUSSION:** Result codes need to be mandatory. This needs to be checked with DIAMETER.

CN4 will collect all of the information that CN3 needs to be coordinated by CN4 and present that via separate TS.

Some textual changes to 6.4 (clause not section and must -> shall).

**RESULT:** The document was **REVISED to 0212.**

β **REVISED** β

**N3-040212 CR 29.209: Gq result codes, Nokia.**

**DISCUSSION:** Siemens had some concerns with the terminology (experimental result codes ..... AVP).

"The present specification" instead of "this....."

**RESULT:** The document was **REVISED to 0239.**

β **REVISED** β

**N3-040239 CR 29.209: Gq result codes, Nokia.**

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

**N3-040169 CR 29.207: Generic Flow identifier, Nokia, Siemens.**

**CONTENT:** Adds Generic definition of Flow Id and examples.

**DISCUSSION:** Some spelling errors were detected.

Ericsson supported the generic definition of flow ID. However thought we may be over-specifying things in having a detailed algorithm in a normative annex. This could be left

up to the applications. Ericsson suggested defining the general rules for Modifying flow ids. However Ericsson could live with the Siemens proposal.

Nortel suggested an improvement to the wording "session description information" in the definitions and "numbers shall not be re-used" in the annex.

**RESULT:** The document was **REVISED to 0213**.

**β REVISED β**

**N3-040213 CR 29.207: Generic Flow identifier, Nokia, Siemens.**

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

**N3-040170 CR 29.207: Indication of Gq failure on Go, Nokia.**

**CONTENT:** Defines the Go error indication for Gq failure.

**DISCUSSION:** TS number in CR cover is incorrect (should be 29.207). Minor change to the grammar.

**RESULT:** The document was **REVISED to 0214**.

**β REVISED β**

**N3-040214 CR 29.207: Indication of Gq failure on Go, Nokia.**

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

**N3-040171 CR 29.207: Clarification on handling forking responses, Nokia, Ericsson.**

**CONTENT:** Removes sub-clause 5.2.2. and the forking related operations at the P-CSCF are described in TS 29.209.

Relates to the Siemens discussion document in N3-040202.

**DISCUSSION:** This issue will be discussed by email.

**RESULT:** The document was **POSTPONED to CN3\_32 meeting**.

**N3-040172 CR 29.209: Clarification on handling forking responses, Nokia, Ericsson.**

**DISCUSSION:** This issue will be discussed by email.

**RESULT:** The document was **POSTPONED to CN3\_32 meeting**.

**N3-040177 CR 29.208: Updates to Authorize QoS resources call flows, Siemens.**

**CONTENT:** The clauses about Mo and MT are combined, and new clause on session modification added.

**DISCUSSION:** Minor Spelling error. Nortel thought that the AF modification procedure should not be optional. There was some disagreement on the meaning of the Stage 2 (Checked offline).

**RESULT:** The document was **REVISED to 0216**.

**β REVISED β**

**N3-040216 CR 29.208: Updates to Authorize QoS resources call flows, Siemens.**

**DISCUSSION:** Agreed to remove the contentious text for further investigation. Minor spelling errors again.

**RESULT:** The document was **REVISED to 0242**.

**β REVISED β**

**N3-040242 CR 29.208: Updates to Authorize QoS resources call flows, Siemens.**

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



**N3-040178 CR 29.208: Updates to Resource reservation flow, Siemens.**

**CONTENT:** Adds SGSN to callflows.

**DISCUSSION:** "Successfully" is not required in bullet 12. Relates to N3-040181.

**RESULT:** The document was **REVISED to 0217**.

**β REVISED β**

**N3-040217 CR 29.208: Updates to Resource reservation flow, Siemens.**

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

**N3-040179 CR 29.208: Updates to other flows, Siemens.**

**CONTENT:** Removes IMS specifics. Various minor updates. Provided Gq interactions in Clause 6.6..

**DISCUSSION:** COPS message (8) should be optional and not mandatory. Also need to add COPS decision and COP report.

Nortel commented on the need for some time to allow for a small loss of radio bearers. They cannot agree to the Siemens change to limit this possibility by removing the "PDP context is modified to 0kbit/s". Siemens agreed to leave this text.

**RESULT:** The document was **REVISED to 0218**.

**β REVISED β**

**N3-040218 CR 29.208: Updates to other flows, Siemens.**

**DISCUSSION:** Image in 6.5.2 has one additional bullet, needs to be aligned.

**RESULT:** The document was **REVISED to 0235**.

**β REVISED β**

**N3-040235 CR 29.208: Updates to other flows, Siemens.**

**DISCUSSION:** Gate operation text needs to be removed.

**RESULT:** The document was **REVISED to 0245**.

**β REVISED β**

**N3-040245 CR 29.208: Updates to other flows, Siemens.**

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

**N3-040180 CR 29.208: Indication of PDF-initiated PDP Context Release , Siemens.**

**CONTENT:** Adds the Callflow for PDF initiated Session Release.

**DISCUSSION:** Numbering in figure needs to be updated. Minor spelling and wording changes required. Nortel had some comments to the figure, including numbering and others that were examined offline.

**RESULT:** The document was **REVISED to 0219**.

**β REVISED β**

**N3-040219 CR 29.208: Indication of PDF-initiated PDP Context Release , Siemens.**

**DISCUSSION:** Typing errors need to be corrected.

**RESULT:** The document was **REVISED to 0236**.

**β REVISED β**

**N3-040236 CR 29.208: Indication of PDF-initiated PDP Context Release , Siemens.**

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

**N3-040181 CR 29.208: Generic Description of QoS Mapping, Siemens.**

**CONTENT:** New generic Description Clause added, IMS specific clause updated. Minor Corrections for UE.

**DISCUSSION:** Various type errors throughout the document.

Nortel and Ericsson felt that the text in 7.0 is really informative and not normative. Would be useful to have a more generic text that also applies to IMS. The new text introduces a great deal of duplication that Siemens believed to be useful. The mapping tables also require updating. An editor's note can be added to explain this.

Nokia stated that SA2 have provided the baseline information, and the Go interface is clearly defined. This text goes some way to re-inventing the wheel, and is already covered in the Stage 2.

**RESULT:** The document was **REVISED to 0220**.

**β REVISED β**

**N3-040220 CR 29.208: Generic Description of QoS Mapping Siemens.**

**CONTENT:** New generic Description Clause added, IMS specific clause updated. Minor Corrections for UE.

**DISCUSSION:** Various type errors throughout the document.

Nortel and Ericsson felt that the text in 7.0 is really informative and not normative. Would be useful to have a more generic text that also applies to IMS. The new text introduces a great deal of duplication that Siemens believed to be useful. The mapping tables also require updating. An editor's note can be added to explain this.

Nokia stated that SA2 have provided the baseline information, and the Go interface is clearly defined. This text goes some way to re-inventing the wheel, and is already covered in the Stage 2.

This issue was discussed in an offline session.

**RESULT:** The document was **POSTPONED to CN3#32**.

**N3-040182 CR 29.208: Mapping of Service Information, Siemens.**

**CONTENT:** Mapping tables from SDP to Gq service information is added. Existing mapping from SDP to authorized QoS is replaced by mapping from Gq service information to authorized QoS.

**DISCUSSION:** Nortel suggested the mapping goes to 29.209. Nokia and Siemens prefer keeping the mapping in 29.208. This principle was agreed.

**RESULT:** The document was **POSTPONED to CN3#32**.

**N3-040183 CR 29.208: Updates to Authorize QoS resources call flows for IMS, Siemens.**

**CONTENT:** Provides Various Corrections. Flow for IMS Session Modification is added.

**DISCUSSION:** Again contains some spelling mistakes, and wrong terms used. Change to figure caption to include IMS.

Nortel needs to check dependencies on other specifications.

**RESULT:** The document was **REVISED to 0221**.

**β REVISED β**

**N3-040221 CR 29.208: Updates to Authorize QoS resources call flows for IMS, Siemens.**

**DISCUSSION:** Correct some type errors.

Step 5 needs to be corrected. Corrections to text in B.1.2

**RESULT:** The document was **REVISED to 0237.**

β **REVISED** β

**N3-040237 CR 29.208: Updates to Authorize QoS resources call flows for IMS, Siemens.**

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

**N3-040184 CR 29.208: Updates to IMS call flows, Siemens.**

**CONTENT:** The CR replaces identical clauses with references to clauses in main body. Corrects errors in implementation of previous CRs (by rapporteur, as these CRs have not yet gone to plenary).

**DISCUSSION:** Some editorial corrections.

**RESULT:** The document was **REVISED to 0222.**

β **REVISED** β

**N3-040222 CR 29.208: Updates to IMS call flows, Siemens.**

**DISCUSSION:** Comments received from Ericsson offline.

**RESULT:** The document was **REVISED to 0246.**

β **REVISED** β

**N3-040246 CR 29.208: Updates to IMS call flows, Siemens.**

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

**N3-040185 Discussion: Handling of gates at the Gq interface, Siemens.**

**CONTENT:** This document discusses how gating control can be expressed in a suitable way at the Gq interface. A related CR against TS 29.209 is contained in Tdoc N4-040186.

**DISCUSSION:** Nortel could not agree with the deviations proposed from the Diameter rules. Did not agree that IP filter will not work. Requested to see concrete proposals before agreeing to the general conclusions.

Discussed offline.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040186 CR 29.209: Gate description Siemens**

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040187 CR 29.209: Gq Notification of PDP context modification to 0 kbits, Siemens.**

**RESULT:** The document was **REVISED to 0223 BEFORE PRESENTATION.**

β **REVISED** β

**N3-040223 CR 29.209: Gq Notification of PDP context modification to 0 kbits, Siemens.**

**CONTENT:** Provides the following changes:

- New Values for Gq-Specific-Action AVP encode modification to/from 0kbits.
- New Affected-Session-Component AVP to list affected IP flows.

**DISCUSSION:** Various comments were raised by Nortel, requested remove some of the proposed text. Clarified during offline discussions.

**RESULT:** The document was **REVISED to 0238.**

β **REVISED** β

**N3-040238 CR 29.209: Gq Notification of PDP context modification to 0 kbits, Siemens.**

**DISCUSSION:** Changes to cover page is required in order to align with the actual change.

**RESULT:** The document was **REVISED to 0247.**

β **REVISED** β

**N3-040247 CR 29.209: Gq Notification of PDP context modification to 0 kbits, Siemens.**

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

**N3-040188 CR 29.209: reused Diameter AVPs at the Gq interface, Siemens.**

**CONTENT:** Describes the reused AVPs.

**DISCUSSION:** CN4 do not to be informed of this list as they are only re-used Diameter AVPs.

Ericsson suggested removing the text relating to the AVPs that we do not support. Nortel went on step further and suggested cause 6.6 is not required. Proposed merging both tables. Nortel could not accept listing things that should not be listed.

Orange added that the experimental result code AVP is missing from this list (agreed in this meeting) and needs to be added as required).

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040192 CR 29.209: Generic Service Information for Gq, Ericsson**

**RESULT:** The document was **REVISED to 0204 before presentation.**

β **REVISED** β

**N3-040204 CR 29.209: Generic Service Information for Gq, Ericsson**

**CONTENT:** In order to make the Gq interface application-independent, and hence future-proof, and to simplify the specification, it is proposed to avoid definition of Gq data in terms of explicit SDP parameters and to hide session media negotiation signalling from the Gq interface.

**DISCUSSION:** Nortel could not agree with several of the points in the subject of change. The requested QoS is not always derived from AF. This is only one possibility.

Nortel states that the only thing that needs to be sent over the Gq interface are things that are useful to the algorithms.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040193 CR 29.207: Generic Media Component, Ericsson.**

**CONTENT:** Modifies the definition of a media component to cover both SDP and non-SDP cases.

**DISCUSSION:** Siemens suggested merging some of the changes into the Siemens CR on flow identifiers [N3-040213]. The rest of the changes are revised to a new version.

**RESULT:** The document was **REVISED to 0224.**

β **REVISED** β

**N3-040224 CR 29.207: Generic Media Component, Ericsson.**

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

**N3-040194 CR 29.209: Some changes to 29.209, Ericsson.**

**CONTENT:** Makes some minor changes to 29.209.

**DISCUSSION:** Nortel will propose another contribution that cleans up 20.209, and will probably make changes to the Ericsson proposed text.

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

**N3-040199 Discussion: handling of forking at Gq, Siemens.**

**RESULT:** The document was **REVISED to 0202 before presentation.**

**β REVISED β**

**N3-040202 Discussion: handling of forking at Gq, Siemens.**

**CONTENT:** The contribution discusses how SIP forking can be handled at the Gq interface. It proposes postponing the discussion on how to handle SIP forking until encoding of gate information and session information and the related basic function split between AF and PDF reach a certain level of maturity.

**DISCUSSION:** Ericsson commented that having several filters assigned to the same flow ID is usual (in different directions).

Propose email discussion of this topic. The related CRs need to be seen as early as possible.

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

**N3-040203 CR to 29.209. Authorisation-Token-Requested-Number AVP, Orange.**

**CONTENT:** A new AVP is added for requesting multiple authorisation tokens in the AA-Request command.

**DISCUSSION:** Use unsigned32 as opposed to interger32. Replace “in case of” with “if”.

Some confusion on the use of multiple tokens. Proposed to postpone this contribution to the next CN3 meeting, as some checking/clarification is required in SA2. Suggest email discussion on this topic.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040240 Discussion: Comments on encoding of service information, Siemens.**

**CONTENT:** This contribution provides comments on the proposal for the encoding of service information contained in N3-040192, N3-040197 and N3-040166.

**DISCUSSION:** Agreed to use the “Application identifier” and “media type”.

To be discussed on email

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

**N3-040248 Un-official Version of 29.207.**

**RESULT:** The document was **to be provided by email.**

**N3-040249 Un-official Version of 29.207.**

**RESULT:** The document was **to be provided by email.**

**N3-040250 29.207 v 0.1.0.**

**RESULT:** The document was **to be provided by email.**

## **10.5 Support of Presence Capability [PRESENC]**

*No input to this agenda item.*

## **10.6 Multimedia Broadcast and Multicast Service [MBMS]**

**N3-040154 Discussion: Gmb interface protocol proposal, Nortel Networks.**

**CONTENT:** Proposes to develop the Gmb interface in a way that the DIAMETER interaction for Gmb authorisation part must use the same messaging as for normal PDP Context authorisation using DIAMETER.

**DISCUSSION:** A CR has been approved to the stage 2 specifications confirming the working assumption proposed in N3-040026.

Proposes the use of Diameter NASREQ for the Gmb interface for the user authorization part. It is also proposed to use NASREQ for the MBMS specific part, although in this case some extensions may be necessary.

The User and service part should be functionally independent; however there may be some inherent dependencies.

**CN3 agrees to the use of Diameter NASREQ for the Gmb interface.**

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

**N3-040155 CR 29.061: Gmb introduction, Nortel Networks.**

**CONTENT:** Introduction of new sections, with the first definitions for the Gmb interface.

**DISCUSSION:** If we compare this to the Wi interface where a separate is to be created. Nokia felt a similar approach could be used for the Gmb. This was not agreed.

CN3 will include Gmb information in 29.061.

Some 'shalls' were missing. Nortel wished to check the alignment with the Stage 2.

Decided to remove Clause 7.1

Ericsson felt it was premature to agree these Gmb CRs now, as there is a need to study the requirements.

CN3 has one more WG meeting before the next plenary.

MBMS user de-activation in 17.5, the text does not align with the header. Needs to be corrected.

Remove term 'single' from some text.

Symbols and definitions need modifications.

"The support of MBMS is optional" this is a Stage 2 statement and should be modified for Stage 3.

Bullets under clause 17 correspond to most of sub-clauses but the bullet corresponding to 17.5 is missing. Good to add this for consistency.

**RESULT:** The document was **REVISED to 0227**.

**β REVISED β**

**N3-040227 CR 29.061: Gmb introduction, Nortel Networks.**

**DISCUSSION:** Put on hold until package is complete.

**RESULT:** The document was **CONTENT AGREED –CR POSTPONED to CN3#32**.

**N3-040156 CR 29.061: Gmb messages flows, Nortel Networks.**

**CONTENT:** Introduction of new sections, containing the messages flows.

**DISCUSSION:** Ericsson suggested using the same style for the diagrams as for the Gq interface. This would provide better clarity.

Improved text was provided for some of the boxes in the call flows.

In order to receive IP multicast traffic, the GGSM needs to join a multicast group.

Mention of the "downstream node" in 15.5.2 should be replaced by GGSN.

Rename 17.5.2 to Session start procedure.

Some alignment is required between the procedure and the call flows.

Change to SSR (MBMS Start). This needs further study and an editor's note will be added.

Message descriptions are missing and need to be provided.

**RESULT:** The document was **REVISED to 0228.**

**β REVISED β**

**N3-040228 CR 29.061: Gmb messages flows, Nortel Networks.**

**DISCUSSION:** To be used as the basis for further study by email.

**RESULT:** The document was **AGREED – CR POSTPONED to CN3#32.**

**N3-040157 CR 29.061: Gmb Commands and AVPs, Nortel Networks.**

**DISCUSSION:** Postponed to email discussion. Contribution still needs a amount of work, and was provided to this meeting as a late contribution.

**RESULT:** The document was **POSTPONED to email.**

## 10.7 WLAN – UMTS Interworking [WLAN]

**N3-040206 Proposal to use Diameter on the PDG Wi and the GGSN Gi interface, T-Mobile.**

**CONTENT:** Proposes that Diameter should be specified for use on the Wi and Gi interfaces. Given that the Wi interface is new then it should be specified as Diameter only. Ideally for the Gi interface a Diameter solution should be added in release 6 but certainly added in release 7.

**DISCUSSION:** Presented to CN plenary, referred back to CN3.

Nokia stated the following:

Wi is a subset of the Gi interface. Considering the schedule of Rel-6 it is not desirable to specify the Wi interface with a new protocol. Nokia prefer re-using the existing protocol (RADIUS), and simply referring to the appropriate specifications.

Some support to proceed with Diameter but only for Rel-7. For Rel-6 Radius will be used. Propose writing a WID for Diameter on the Wi and Gi for Rel-7. This is expected at the next CN3 meeting.

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

**N3-040160 Discussion: Common protocol for Authentication and Authorization, Nortel Networks.**

**CONTENT:** The main intention of this paper is for the new interfaces (Gx, Rx, Gmb, Wm, Wi, Gi evolution) to be unified regarding the Authentication and Authorization functions using Diameter.

**DISCUSSION:** There is some support to study the re-use some of the common functionality, but it is not yet sure how this will be done. Also there is a need to see some real examples before CN3 can decide how to proceed.

Nortel will present this in CN4, as well as a request to CN4 to clarify their coordinating role.

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

**N3-040173 TS: Interworking between PLMN with WLAN access and PDN, Nokia.**

**RESULT:** The document was **REVISED BEFORE PRESENTATION TO 0200.**

**β REVISED β**

**N3-040200 TS: Interworking between PLMN with WLAN access and PDN, Nokia.**  
**CONTENT:** Contains the TS 29.161 v.0.1.0 that is proposed to be taken as a basis for the further work.  
**DISCUSSION:** Question as to why there is no reference to Diameter. Clarified that this is only for the Gi and Wi for Rel-7. For Rel6 CN3 continue with Radius.  
CN3 agreed to this draft TS as the basis for future work.  
There are some dependencies on other groups (SA2, SA3 and possibly CN1).  
The work will be continued via email discussions before the next CN3 meeting.  
**RESULT:** The document was **AGREED**.

## 10.8 Other Rel-6 Work Items

**N3-040174 Discussion: Multiple IMS sessions using the same PDP context, Nokia.**  
**CONTENT:** Presents the stage 2 status on “multiplexing IP flows from different sessions in the same PDP context”. Contains CRs to 27.060 and 29.207 to introduce this function. The CRs are presented for information and comments as some more development is expected in SA2.  
**DISCUSSION:** Mention the limitation to the same PDF in the CR to 27.060.  
The term AF needs to be added to the abbreviation list in 27.060.  
It was mentioned that CN1 are also working on this issue.  
Additional text in clause 4.1 of CR to 29.207 is not required.  
Problem with charging mechanism may be resolved by using IP flow based charging. However this is still under discussion in SA2.  
Suggest sending a LS to SA2, identifying the issues that CN3 have identified (see N3-040229).  
The contained CRs (and possibly additional CRs) are to be discussed via email before the next meeting.  
CN3 will use TEI\_6 for CRs on this issue.  
**RESULT:** The document was **NOTED**.

**N3-040229 LS on impacts of multiple IMS sessions using the same PDP Context, Nokia.**  
**CONTENT:** In this LS, CN3 asks SA2 to advice on possible measures required and allowed to guarantee that the same PDF is used for sessions of a given UE.  
**DISCUSSION:** Some modifications to the wording and corrections to minor spelling errors.  
**RESULT:** The document was **REVISED to 0241**.

β **REVISED** β

**N3-040241 LS on impacts of multiple IMS sessions using the same PDP Context, Nokia.**  
**DISCUSSION:** Proposed adding new text to the 2<sup>nd</sup> bullet to make it clearer. Add TS 29.209 to affected specifications  
**RESULT:** The document was **REVISED to 0244**.

β **REVISED** β

**N3-040244 LS on impacts of multiple IMS sessions using the same PDP Context, Nokia.**  
**RESULT:** The document was **APPROVED**.

**N3-040175 WID: Gx interface for flow based charging Nokia.**



**DISCUSSION:** Links to SA2 work required. Some concerns over the September 2004 completion date. David, MCC commented that the date in the WID should reflect the reality of when the work is likely.

Even if the work is likely to be done by December 2004, this will not prevent it from being included in Rel-6

Ericsson, Nortel, Vodafone were added as supporting companies.

Minor change to title.

No Service aspects.

Title of new TS needs to be corrected.

**RESULT:** The document was **REVISED to 0230.**

**β REVISED β**

**N3-040230 WID: Gx interface for flow based charging Nokia.**

**DISCUSSION:** Have not included the Rx interface here or anywhere. Nortel asked if we could handle the Rx under the Gx interface. Nokia thought this should be handled separately.

Some minor spelling errors. Still requires a WI rapporteur.

**RESULT:** The document was **POSTPONED to CN3#32.**

**N3-040176 TS: Gx interface for flow based charging Nokia**

**CONTENT:** Very draft first effort of the Gx interface TS.

**DISCUSSION:** CN3 is requested to:

- Use the attached draft TS as a basis for the stage 3 work on the Gx interface,
- start email working on the TS after the CN3#31bis meeting to be able to present a mature version in the may meeting,
- consider, whether holding a drafting meeting (before or after CN3#32) would help to meet the challenge.

Ericsson could not agree to the draft TS to be used as a base (just take it for info), but agreed with email discussion and possibly extra meetings. There are a lot of open issues (choice of protocol) that cannot yet be fixed in the TS.

Nortel were of the same opinion, and went one stage further questioning the necessity for this TS.

CN3 will take the TS as the basis of further technical work. The Gx protocol decision will be left open until the next CN3 decision.

Modification to clause 4.2 will remove the Go and Gq parts. Re-use the figure from Stage 2 specs. Remove 4.3.3 and 4.3.4, as well as 6.

**RESULT:** The document was **REVISED to 0231.**

**β REVISED β**

**N3-040231 TS: Gx interface for flow based charging, Nokia.**

**DISCUSSION:** Ericsson commented that the text related to the protocol still remains in the scope and reference list. CN3 has not made a working assumption to use Diameter on the Gx.

Nortel requested to remove some further subclauses. Since this would yield to an almost empty skeleton of the TS, it was decided to let the TS as it is, to use it as basis for e-mail discussion but to give it no official status.

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

**N3-040195 CR 29.061: QoS profile and QoS IE, Ericsson.**

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

**N3-040196 CR 29.061: QoS profile length, Ericsson.**

**CONTENT:** For the GPRS Negotiated QoS Profile sub-attribute in the Radius interface the length indication (L) is missing, the CR adds this.

**DISCUSSION:** Content is agreed, but the cover sheet need to be corrected. CRs needed back to Rel-4, the changes to frozen releases are agreed by consensus in CN3.

Content of this CR agreed, CR postponed to next meeting where it will be presented as a pack.

**RESULT:** The document was **POSTPONED until CN3#32.**

**N3-040198 CR 29.061: Packet Filters on the Gi interface, Vodafone.**

**RESULT:** The document was **REVISED BEFORE PRESENTATION TO 0215.**

**β REVISED β**

**N3-040215 CR 29.061: Packet Filters on the Gi interface, Vodafone, Cisco.**

**CONTENT:** In order to allow the operator to correctly correlate QoS with the appropriate session when IMS, SBLP or other services are used, additional information is needed on the GGSN RADIUS interface.

**DISCUSSION:** Nokia had concerns that this was more related to Architecture as proposes information outside of 3GPP. Suggested checking this with SA2.

Nokia objected to developing an alternative mechanism to the one presently being studied. Nortel had problems with adding the new attributes proposed by Cisco as it does not relate only to billing, but rather for authorization.

Siemens and mmO2 supported the CR.

Agreed to revise the CRs, only to include the packet filters.

**RESULT:** The document was **REVISED to 0232.**

**β REVISED β**

**N3-040232 CR 29.061: Packet Filters on the Gi interface, Vodafone, Cisco.**

**DISCUSSION:** Some minor spelling errors. Some text in the actual TS is RED. Will be corrected by MCC when CRs are implemented.

**RESULT:** The document was **REVISED to 0243.**

**β REVISED β**

**N3-040243 CR 29.061: Packet Filters on the Gi interface, Vodafone, Cisco.**

**RESULT:** The document was **AGREED with one objection by Nokia.**

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## 11 Joint sessions

None.

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## 12 Work Organization

### 12.3 Next meetings, allocation of hosts

Mar 2004				
<a href="#">3GPPCN#23</a>	OR	10 - 12 Mar 2004	Phoenix, NA Friends	US
Joint CN WG bis Meetings (CN1, CN3)	OR	29 Mar - 2 Apr 2004	Sophia, ETSI	FR
May 2004				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	10 - 14 May 2004	Zagreb, Croatia, EF3	CR
Jun 2004				
<a href="#">3GPPCN#24</a>	OR	2 - 4 Jun 2004	Seoul, TTA	KR
Aug 2004				
Joint CN WG Meeting (CN1, 2, 3, 4,5)	WG	16 - 20 Aug 2004	Sophia, ETSI	FR
Sep 2004				
<a href="#">3GPPCN#25</a>	OR	8 - 10 Sep 2004	Palm Springs, NA Friends	US
Nov 2004				
Joint CN WG Meeting (CN1, 2, 3, 4,5)	WG	15 - 19 Nov 2004	t.b.d, Asia	
Dec 2004				
<a href="#">3GPPCN#26</a>	OR	8 - 10 Dec 2004	Athens, EF3	GR

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## 13 Summary of results

### 13.1 Work Items

0 WIDs were agreed by CN3, to be sent to the next TSG-CN Plenary for Approval:

### 13.2 Liaison Statements

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

Tdoc	Title	LS To	LS Cc	Attachment
N3-040233	Re. LS on "P-CSCF gets informed about signalling IP-CAN bearer was released"	CN1	SA2	
N3-040244	LS on impacts of multiple IMS sessions using the same PDP Context	SA2	CN1	

### 13.3 TRs / TSs

N3-040248	TS	TS 29.207 unofficial version	to be provided by email
N3-040249	TS	TS 29.208 unofficial version	to be provided by email
N3-040250	TS	TS 29.209 v0.1.0	to be provided by email

0 TS/TR(s) were agreed to be sent to the next TSG-CN Plenary for Approval.

### 13.4 Change Requests

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

Tdoc	Title	Spec	CR	Rev	Cat	Rel	Work Item
N3-040243	Packet Filters on the Gi interface	29.061	109	3	B	Rel-6	TEI6
N3-040207	Message sequence correction	29.163	037	1	F	Rel-6	IMS-CCR-IWCS
N3-040208	Notify IMS RTP Tel Event correction	29.163	038	1	F	Rel-6	IMS-CCR-IWCS
N3-040234	Interworking with Nb user plane procedures	29.163	039	1	F	Rel-6	IMS-CCR-IWCS

The following CRs for 29.207 and 29.208 will not be sent to TSG-CN, they will be implemented in the unofficial versions of these specs.

N3-040213	Generic Flow identifier	29.207	122	1			Rel-6	QoS1
N3-040214	Indication of Gq failure on Go	29.207	123	1			Rel-6	QoS1
N3-040224	Generic Media Component	29.207	125	1			Rel-6	QoS1
N3-040242	Updates to Authorize QoS resources callflows	29.208	061	2	F		Rel-6	QoS1
N3-040217	Updates to Resource reservation flow	29.208	062	1	F		Rel-6	QoS1
N3-040245	Updates to Other flows	29.208	063	3	F		Rel-6	QoS1
N3-040236	Indication of PDF-initiated PDP Context Release	29.208	064	2	B		Rel-6	QoS1
N3-040237	Updates to Authorize QoS resources callflowsfor IMS	29.208	067	2	B		Rel-6	QoS1
N3-040246	Updates to IMS callflows	29.208	068	2	B		Rel-6	QoS1

#### **14 CRs AGREED at this meeting**

#### **13.5 Other**

None.

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## **14 Any other business**

There will be elections for the CN3 Chairman at the next CN3 meeting in Croatia. Nominations should be sent to David Boswarthick [david.boswarthick@etsi.org](mailto:david.boswarthick@etsi.org) and Karen Hughes [karen.hughes@etsi.org](mailto:karen.hughes@etsi.org)

For more information please see:- <http://www.3gpp.org/tb/CN/CN3/Election/election.htm>

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## **15 Close of meeting**

Norbert closed the 31bis meeting on Friday 2<sup>nd</sup> April 12:30, 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.

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## Annex A: List of CN3 Meeting Participants

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### **17** PARTICIPANTS



## Annex B: List of documents

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040136		Agenda	Draft Agenda for CN3#31bis								Approved
N3-040137	3	DAD	Allocation of documents to agenda items (at deadline)	CN3 Chair							Noted
N3-040138	3	DAD	Allocation of documents to agenda items (at start of day 1)	CN3 Chair							Noted
N3-040139	3	DAD	Allocation of documents to agenda items (at end of day 1)	CN3 Chair							Noted
N3-040140	3	DAD	Allocation of documents to agenda items (at end of day 3)	CN3 Chair							Noted
N3-040141	3	DAD	Allocation of documents to agenda items (at end of day 4)	CN3 Chair							Noted
N3-040142	4.2	REPORT	Brief notice from CN#23 relevant for CN3	CN3 Chair							Noted
N3-040143	4.3	REPORT	Email with Highlights of CN#23/SA#23	CN Chair							Noted
N3-040144		LS in	LS on "P-CSCF gets informed about signalling IP-CAN bearer was released"	TSG CN WG1							Noted
N3-040145		LS in	LS on the availability of charging information	TSG CN WG1							Noted
N3-040146		LS in	LS Response on IP Flow Based Bearer Level Charging	TSG CN WG2							Noted
N3-040147		LS in	Reply LS on call hold requirement for CS multimedia	TSG CN WG4							Noted
N3-040148		LS in	LS on the use of GTP for WLAN-GPRS interworking	TSG CN WG4							Noted
N3-040149		LS in	LS Reply to Request for close cooperation on future NGN Standardisation	TSG SA							Noted
N3-040150		LS in	LS on multiple IMS sessions using the same PDP Context	TSG SA WG2							Noted
N3-040151		LS in	LS on Resource reservation for session based messaging	TSG SA WG2							Noted
N3-040152	10.4	CR	Use of the result codes in the Diameter answer messages	Orange	QoS1	29.209	001	0	B	Rel-6	Withdrawn

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040153	10.4	CR	Improvements of the sections 6.1 and 6.3	Orange	QoS1	29.209	002	0	B	Rel-6	Agreed
N3-040154	10.6	Discussion	Gmb interface protocol proposal	Nortel Networks							Noted
N3-040155	10.6	CR	Gmb introduction	Nortel Networks	MBMS	29.061	104	0	B	Rel-6	Revised in N3-040227
N3-040156	10.6	CR	Gmb messages flows	Nortel Networks	MBMS	29.061	105	0	B	Rel-6	Revised in N3-040228
N3-040157	10.6	CR	Gmb Commands and AVPs	Nortel Networks	MBMS	29.061	106	0	B	Rel-6	Postponed
N3-040158	10.4	Discussion	Concerns on using Proxy/Relay Features of Diameter for Gq	Nortel Networks							Noted
N3-040159	10.4	CR	Gq command codes summary table	Nortel Networks	MBMS	29.209	003	0	B	Rel-6	Revised in N3-040210
N3-040160	10.7	Discussion	Common protocol for Authentication and A uthorization	Nortel Networks							Noted
N3-040161	10.2	CR	Message sequence correction	Nokia	IMS-CCR-IWCS	29.163	037	0	F	Rel-6	Revised in N3-040207
N3-040162	10.2	CR	Notify IMS RTP Tel Event correction	Nokia	IMS-CCR-IWCS	29.163	038	0	F	Rel-6	Revised in N3-040208
N3-040163	10.4	Discussion	Application level version control in Gq interface	Nokia							Noted
N3-040164	10.4	CR	Editorial corrections to 29.209	Nokia	QoS1	29.209	004	0		Rel-6	Agreed
N3-040165	10.4	CR	Error case and other considerations	Nokia	QoS1	29.209	005	0		Rel-6	Withdrawn
N3-040166	10.4	CR	Service information	Nokia, Siemens	QoS1	29.209	006	0		Rel-6	
N3-040167	10.4	CR	Gq session abort cause codes	Nokia	QoS1	29.209	007	0		Rel-6	Revised in N3-040211
N3-040168	10.4	CR	Gq result codes	Nokia	QoS1	29.209	008	0		Rel-6	Revised to 212
N3-040169	10.4	CR	Generic Flow identifier	Nokia, Siemens	QoS1	29.207	122	0		Rel-6	Revised in N3-040213
N3-040170	10.4	CR	Indication of Gq failure on Go	Nokia	QoS1	29.207	123	0		Rel-6	Revised in N3-040214

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040171	10.4	CR	Clarification on handling forking responses	Nokia, Ericsson	QoS1	29.207	124	0		Rel-6	Postponed
N3-040172	10.4	CR	Clarification on handling forking responses	Nokia, Ericsson	QoS1	29.209	009	0		Rel-6	Postponed
N3-040173	10.7	TS	Interworking between PLMN with WLAN access and PDN	Nokia							Revised in N3-040200
N3-040174	10.8	Discussion	Multiple IMS sessions using the same PDP context	Nokia							Noted
N3-040175	10.8	WID	Gx interface for flow based charging	Nokia							Revised in N3-040230
N3-040176	10.8	[TS]	Gx interface for flow based charging	Nokia							Revised in N3-040231
N3-040177	10.4	CR	Updates to Authorize QoS resources callflows	Siemens	QoS1	29.208	061	0	F	Rel-6	Revised in N3-040216
N3-040178	10.4	CR	Updates to Resource reservation flow	Siemens	QoS1	29.208	062	0	F	Rel-6	Revised in N3-040217
N3-040179	10.4	CR	Updates to Other flowsd	Siemens	QoS1	29.208	063	0	F	Rel-6	Revised in N3-040218
N3-040180	10.4	CR	Indication of PDF-initiated PDP Context Release	Siemens	QoS1	29.208	064	0	B	Rel-6	Revised in N3-040219
N3-040181	10.4	CR	Generic Description of QoS Mapping	Siemens	QoS1	29.208	065	0	B	Rel-6	Revised in N3-040220
N3-040182	10.4	CR	Mapping of Service Information	Siemens	QoS1	29.208	066	0	B	Rel-6	POSTPONED to CN3#32
N3-040183	10.4	CR	Updates to Authorize QoS resources callflows for IMS	Siemens	QoS1	29.208	067	0	B	Rel-6	Revised in N3-040221
N3-040184	10.4	CR	Updates to IMS callflows	Siemens	QoS1	29.208	068	0	B	Rel-6	Revised in N3-040222
N3-040185	10.4	Discussion	Gate Handling at Go	Siemens							POSTPONED to CN3#32.
N3-040186	10.4	CR	Gate description	Siemens	QoS1	29.209	010	0	B	Rel-6	POSTPONED to CN3#32.
N3-040187	10.4	CR	Gq Notification of PDP context modification to 0kbits	Siemens	QoS1	29.209	011	0	B	Rel-6	Revised in N3-040223
N3-040188	10.4	CR	reused Diameter AVPs at the Gq interface	Siemens	QoS1	29.209	012	0	B	Rel-6	PostponedPOSTPONE D to CN3#32.

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040189	10.2	CR	Interworking with Nb user plane procedures	Lucent	IMS-CCW-CS	29.163	039	0		Rel-6	Revised in N3-040209
N3-040190	10.2	Discussion	Interworking with BICC codec negotiation	Lucent							Noted
N3-040191	10.2	INFO	Codec parameter translation IM CN subsystem to BICN	Lucent							Withdrawn
N3-040192	10.4	CR	Generic Service Information for Gq	Ericsson	QoS1	29.209	013	0		Rel-6	Revised in N3-040204
N3-040193	10.4	CR	Generic Media Component	Ericsson	QoS1	29.207	125	0		Rel-6	Revised in N3-040224
N3-040194	10.4	CR	Some changes to 29.209	Ericsson	QoS1	29.209		0		Rel-6	Agreed
N3-040195	10.8	CR	QoS profile and QoS IE	Ericsson	TEI	29.061	107	0		Rel-6	Withdrawn
N3-040196	10.8	CR	QoS profile length	Ericsson	TEI	29.061	108	0		Rel-6	Agreed
N3-040197	10.4	Discussion	Generic Service Information for Gq	Ericsson							POSTPONED to CN3#32
N3-040198	10.8	CR	Packet Filters on the Gi interface	Vodafone	TEI6	29.061	109	0	B	Rel-6	Revised in N3-040215
N3-040199	10.4	Discussion	handling of forking at Gq	Siemens							Revised in N3-040202
N3-040200	10.7	TS	Interworking between PLMN with WLAN access and PDN	Nokia							Agreed
N3-040201	4.1	Report	Draft Meeting report from CN3#31	MCC							Approved
N3-040202	10.4	Discussion	handling of forking at Gq	Siemens							Noted
N3-040203	10.4	CR	Authorisation-Token-Requested-Number AVP	Orange							Postponed
N3-040204	10.4	CR	Generic Service Information for Gq	Ericsson	QoS1	29.209	013	1		Rel-6	POSTPONED to CN3#32
N3-040205	5.1	LS out	P-CSCF gets informed about signalling IP-CAN bearer was released	CN3							Revised in N3-040226
N3-040206	10.7	Discussion	Proposal to use Diameter on the PDG Wi and the GGSN Gi interface	T-mobile							Noted

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040207	10.2	CR	Message sequence correction	Nokia	IMS-CCR-IWCS	29.163	037	1	F	Rel-6	Agreed
N3-040208	10.2	CR	Notify IMS RTP Tel Event correction	Nokia	IMS-CCR-IWCS	29.163	038	1	F	Rel-6	Agreed
N3-040209	10.2	CR	Interworking with Nb user plane procedures	Lucent	IMS-CCW-CS	29.163	039	1		Rel-6	Revised in N3-040234
N3-040210	10.4	CR	Gq command codes summary table	Nortel Networks	MBMS	29.209	003	1	B	Rel-6	Withdrawn
N3-040211	10.4	CR	Gq session abort cause codes	Nokia	QoS1	29.209	007	1		Rel-6	Postponed to CN3#32
N3-040212	10.4	[CR]	Gq result codes	Nokia	QoS1	29.209	008	0		Rel-6	Revised in N3-040239
N3-040213	10.4	CR	Generic Flow identifier	Nokia, Siemens	QoS1	29.207	122	1		Rel-6	Agreed
N3-040214	10.4	CR	Indication of Gq failure on Go	Nokia	QoS1	29.207	123	1		Rel-6	Agreed
N3-040215	10.8	CR	Packet Filters on the Gi interface	Vodafone, Cisco	TEI6	29.061	109	1	B	Rel-6	Revised in N3-040232
N3-040216	10.4	CR	Updates to Authorize QoS resources callflows	Siemens	QoS1	29.208	061	1	F	Rel-6	Revised in N3-040242
N3-040217	10.4	CR	Updates to Resource reservation flow	Siemens	QoS1	29.208	062	1	F	Rel-6	Agreed
N3-040218	10.4	CR	Updates to Other flowsd	Siemens	QoS1	29.208	063	1	F	Rel-6	Revised in N3-040235
N3-040219	10.4	CR	Indication of PDF-initiated PDP Context Release	Siemens	QoS1	29.208	064	1	B	Rel-6	Revised in N3-040236
N3-040220	10.4	CR	Generic Description of QoS Mapping	Siemens	QoS1	29.208	065	1	B	Rel-6	Postponed to CN3#32
N3-040221	10.4	CR	Updates to Authorize QoS resources callflows for IMS	Siemens	QoS1	29.208	067	1	B	Rel-6	Revised in N3-040237
N3-040222	10.4	CR	Updates to IMS callflows	Siemens	QoS1	29.208	068	1	B	Rel-6	Revised in N3-040246
N3-040223	10.4	CR	Gq Notification of PDP context modification to 0kbits	Siemens	QoS1	29.209	011	1	B	Rel-6	Revised in N3-040238
N3-040224	10.4	CR	Generic Media Component	Ericsson	QoS1	29.207	125	1		Rel-6	Agreed

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040225	5.1	LS out	P-CSCF gets informed about signalling IP-CAN bearer was released	CN3							BLOCKED MCC
N3-040226	5.1	LS out	P-CSCF gets informed about signalling IP-CAN bearer was released	CN3							Revised in N3-040233
N3-040227	10.6	CR	Gmb introduction	Nortel Networks	MBMS	29.061	104	1	B	Rel-6	Postponed to CN3#32
N3-040228	10.6	CR	Gmb messages flows	Nortel Networks	MBMS	29.061	105	1	B	Rel-6	Agreed
N3-040229	10.8	LS out	LS on impacts of multiple IMS sessions using the same PDP Context	CN3							Revised in N3-040242
N3-040230	10.8	WID	Gx interface for flow based charging	Nokia							POSTPONED to CN3#32
N3-040231	10.8	[TS]	Gx interface for flow based charging	Nokia							Noted
N3-040232	10.8	CR	Packet Filters on the Gi interface	Vodafone, Cisco	TEI6	29.061	109	2	B	Rel-6	Revised in N3-040244
N3-040233	5.1	LS out	Re. LS on "P-CSCF gets informed about signalling IP-CAN bearer was released"	CN3							Approved
N3-040234	10.2	CR	Interworking with Nb user plane procedures	Lucent	IMS-CCW-CS	29.163	039	2		Rel-6	Approved
N3-040235	10.4	CR	Updates to Other flows	Siemens	QoS1	29.208	063	2	F	Rel-6	Revised in N3-040245
N3-040236	10.4	CR	Indication of PDF-initiated PDP Context Release	Siemens	QoS1	29.208	064	2	B	Rel-6	Agreed
N3-040237	10.4	CR	Updates to Authorize QoS resources callflows for IMS	Siemens	QoS1	29.208	067	2	B	Rel-6	Agreed
N3-040238	10.4	CR	Gq Notification of PDP context modification to 0kbits	Siemens	QoS1	29.209	011	2	B	Rel-6	Revised in N3-040247
N3-040239	10.4	[CR]	Gq result codes	Nokia	QoS1	29.209	008	1		Rel-6	Agreed
N3-040240	10.4	Discussion	Comments on encoding of service information	Siemens							Noted
N3-040241	10.8	LS out	LS on impacts of multiple IMS sessions using the same PDP Context	CN3							Revised in N3-040244
N3-040242	10.4	CR	Updates to Authorize QoS resources callflows	Siemens	QoS1	29.208	061	2	F	Rel-6	Agreed

Tdoc	Agenda	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040243	10.8	CR	Packet Filters on the Gi interface	Vodafone, Cisco	TEI6	29.061	109	3	B	Rel-6	Agreed
N3-040244	10.8	LS out	LS on impacts of multiple IMS sessions using the same PDP Context	CN3							Approved
N3-040245	10.4	CR	Updates to Other flows	Siemens	QoS1	29.208	063	3	F	Rel-6	Agreed
N3-040246	10.4	CR	Updates to IMS callflows	Siemens	QoS1	29.208	068	2	B	Rel-6	Agreed
N3-040247	10.4	CR	Gq Notification of PDP context modification to 0kbits	Siemens	QoS1	29.209	011	3	B	Rel-6	Agreed
N3-040248		TS	TS 29.207 unofficial version								to be provided by email
N3-040249		TS	TS 29.208 unofficial version								to be provided by email
N3-040250		TS	TS 29.209 v0.1.0								to be provided by email

## History:

Document History	
6 <sup>th</sup> April 2004	<p>DRAFT v1.0.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to: David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 e-mail: <a href="mailto:david.boswarthick@ETSI.org">david.boswarthick@ETSI.org</a></p> <p>A deadline of 1 week was given to the CN3 delegates for e-mail comments on the draft report.</p> <p style="text-align: center;"><b>Comments back by 20<sup>th</sup> April 2004</b></p>