Third Generation Partnership Project

Meeting Report v3.0.0
for
3GPP TSG CN WG 3
Meeting #32

Zagreb, Croatia

Hosted by
EF3

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1. Opening of the Meeting

The CN3 Chairman Mr. Norbert Klehn opened the meeting at 09:00 on Monday and welcomed the CN3 delegates to Zagreb on behalf of the hosts.

2. Approval of the agenda

N3-040251: CN3#32 Draft Meeting Agenda, source CN3 Chairman.
CONTENT: Contains the draft agenda for CN3#32 Meeting.
RESULT: The Agenda was APPROVED.

3. Registration of documents

N3-040252: 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.

N3-040253: Allocation of documents to agenda items (at end of day 1), source CN3 Chairman.
RESULT: The allocation of documents was NOTED.

N3-040254: Allocation of documents to agenda items (at end of day 2), source CN3 Chairman.
RESULT: The allocation of documents was NOTED.

N3-040255: Allocation of documents to agenda items (at end of day 3), source CN3 Chairman.
RESULT: The allocation of documents was NOTED.

N3-040256: Allocation of documents to agenda items (at end of day 4), source CN3 Chairman.
RESULT: The allocation of documents was NOTED.

N3-040257: Allocation of documents to agenda items (at end of day 5), source CN3 Chairman.
RESULT: The allocation of documents was NOTED.
4 Reports

4.1 Report of last CN3 Meeting

N3-040260: CN3#31bis Draft Meeting Report, source MCC.
RESULT: The document was REVISED to 0323 before presentation.

N3-040323: CN3#31bis Draft Meeting Report, source MCC.
CONTENT: Contains the draft meeting report for the CN3#31bis.
The report was completed and distributed at the end of the meeting. There was the usual 2-week deadline for comments by e-mail. These comments have been integrated in the revised meeting report presented in this document.
RESULT: The document was APPROVED.

4.2 Reports from last CN
No documents for this agenda item

4.3 Reports of other groups
No documents for this agenda item
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 delegates to the meeting of this Technical Specification Group was 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 delegates were asked to take note that they were thereby invited:

- to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

- to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (http://webapp.etsi.org/lpr/).

6 Items for immediate consideration

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

No input to this agenda item.
N3-040261  Reply LS on early media and IMS/CS interworking, CN1.

CONTENT: The way SIP and SDP are used in IMS does not preclude the usage of early media. This means, that in both originating or terminating case the IMS UE is allowed to start sending media after receiving SDP from the remote side, that indicates that preconditions are met (or does not include any preconditions at all). There are also no mechanisms that would e.g. allow the network or the MGCF/IM-MGW to prohibit a UE from making use of early media. If the UE sends early media it is up to the MGCF/IM-MGW how to handle it towards the CS networks.

In the case of parallel forking early media can appear from different sources. The draft http://www.ietf.org/internet-drafts/draft-ietf-sipping-early-media-01.txt describes how early media can be handled in SIP. Although in Rel-6 no 3GPP reference to this draft exists from CN1 specification, it is believed that it gives good guidance for the handling of early media.

DISCUSSION: Siemens has concerns with the stability of the draft, but this needs to be clarified by SA2. CN3 understand that early media cannot be prohibited, it is up to CN3 to decide what must be done with it when received. The existing solution in CN3 remains unchanged.

When the IETF draft becomes stable, this has to be investigated. If this needs to be done in Rel-7 this needs to be examined first in SA2.

RESULT: The document was NOTED.

N3-040262  LS on Assignment of the Diameter codes and identifiers, CN4.

CONTENT: CN4 has the responsibility to coordinate the 3GPP specific Diameter codes and identifiers. The CN4 has created a draft of the TS 29.230, which documents those codes and identifiers, to be the basis of the coordination. The annex A of the TS contains the recommended rules for the assignment procedure of different Diameter codes and identifiers.

CN4 asks the other working groups to review the draft TS 29.230 and provide input to CN4 on any existing deficiencies. Special attention should be paid on the annex A, which describes the recommended assignment procedure of any new Diameter codes and identifiers within the 3GPP.

DISCUSSION: CN3 will send back a LS to CN4 requesting a range of numbers.

RESULT: The document was NOTED.

N3-040346  LS on Assignment of the Diameter codes and identifiers, CN3.

CONTENT: In this LS CN3 inform CN4 about the need for a new application identifier, a range of new AVPs and another of new result codes for the Rel-6 Gq interface. CN3 would like to kindly ask CN4 to allocate for the Rel-6 Gq interface purposes, see draft TS 29.209, the following:

- A new Application identifier (to be requested from IANA) to identify the Rel-6 Gq interface application;
- A range of 100 3GPP specific AVPs; and
- A range of 20 3GPP specific Experimental-Result-Codes of type Permanent failure (5xxx).

DISCUSSION: No need to copy the other groups. Type error in text. Meeting names incorrect. Include the response LS details.

Agreement to request a range for the permanent failures. Nortel thought asking for only permanent failures as slightly limiting. If we request only 5 now, we’ll need to send another LS at a later date requesting more codes.
SA2 would like to note first that the purpose of the Stage 2 requirement on media component groups is to allow the P-CSCF to require that certain media components are carried within different identifiable PDP Contexts, in order that they may be charged separately by GPRS charging. There is no requirement that grouped media components are carried within the same PDP Context, but each PDP context under the control of media grouping would need to only contain flows related to one media group (SRF group).

In Release 5, according to 23.228, it is assumed that all flows (e.g. RTP, RTCP) associated with a media component are carried within the same PDP Context, but this is an assumption, rather than a requirement.

Therefore, according to the requirement on media component groups, the fact that RTP and RTCP flows are grouped within the same SRF group should not mean that they cannot be carried on separate PDP Contexts. There is therefore no need for an explicit indication from the P-CSCF to this effect. The mapping of flows within any given SRF group to PDP Contexts should be a matter for the UE, provided only that flows from distinct SRF groups are never mapped to the same PDP Context as any other media component flows related or unrelated to SRF groups. SA2 recommends that the application of the SRF indication within the 3GPP IMS is specified in this way.

SA2 notes that in the case that IP Flow Bearer Charging is used, the SRF indication will not be present, since there is no need to separate the flows into separate PDP Contexts in order to collect separate charging information.

Considering CN3’s answers to SA2’s questions, SA2 has agreed to relax the assumption that all flows for a media component are carried within the same PDP Context in Release 6.

SA2 asks CN3 to ensure that the 3GPP application of the SRF indication allows for flows within an SRF group to be mapped to separate PDP Contexts, according to the Stage 2 requirement. Also CN3 must make appropriate modifications to their specifications to allow for separation of RTP and RTCP flows.

DISCUSSION: Some modifications will be required to CN3’s specifications. Thomas (Siemens) will check the TS and bring changes as required to future meetings.

RESULT: The document was NOTED.

SA2 understands that CN3 will define the stage 3 for the Gx reference point following the stage 2 work in TS 23.125. Following the SA minutes that say that “It was noted that the work on the Gx and Rx interfaces will be under the responsibility of CN WG3”, SA2 would like to clarify that in 23.125, SA2 has defined reference points (and not interfaces) – namely Gx, Gy, Rx and Ry.

This means that Gx is defined as a reference point and not an interface. The Gx reference point consists of information that needs to be exchanged between functional entities and the appropriate protocol is left for CN3 to define.
SA2 asks CN3 to take note of the above in their stage 3 work on FBC.

RESULT: The document was NOTED.

N3-040338 Reply LS on early media and IMS/CS interworking, SA2

CONTENT: SA2 agrees with CN1’s assessment that the way SIP and SDP are used in IMS does not preclude the usage of early media. Hence, CN3 are kindly invited to attempt to provide measures for handling early media received from IMS with the IMS/CS interworking. In particular, there might be early media if a CS domain to IMS call returns to the CS domain due to forwarding by called party service logic.

SA2 prefers not to mandate a specific MGCF behaviour to always request sequential forking, since this impacts the service provided to the called party. At the same time, such a behaviour from specific MGCF implementations can and shall not be precluded either. It should be noted, though, that even such MGCF implementations might encounter parallel incoming early media streams due to preferences of the called party taking precedence.

RESULT: The document was NOTED.

N3-040339 Reply LS on impacts of multiple IMS sessions using the same PDP Context, SA2

CONTENT: SA2 expects that the multiplexing of media components from different sessions is primarily an issue for IMS sessions. In this case it can be assured that the same PDF is used because the P-CSCF remains the same for all IMS sessions of a user. After the PDF selection for the first IMS session of a user the P-CSCF shall contact the same PDF for any other IMS session of that user.

Please note that SA2 is still studying the possibility of a general AF session multiplexing and the requirements to ensure that the same PDF is used.

DISCUSSION: Missing text in 29.207 or 29.208 explaining the above understanding. Nortel will examine if this text can be added to the CR in Tdoc 0262.

Decided to push this issue to email discussion. Thomas (Siemens) will provide the CRs for discussion on the email exploder.

RESULT: The document was NOTED.

N3-040331 LS on Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0, SA2

CONTENT: SA2 received a Liaison Statement from Wi-Fi Alliance, including a Request for Comment on the Marketing Requirement Document Draft Version 1.0.

SA2 believe that CN1, CN3, CN4, SA3 and SA5/SWG-B are in a position to make useful comments on this Liaison Statement, too. Hence, although SA2 have already made an answer from our point of view (so that we meet the deadline on April 30th), we believe that it would be useful that the groups above also comment this Marketing Requirement Document, even if the deadline cannot be fulfilled due to the 3GPP meeting schedule.

Please note that SA2 have already informed Wi-Fi Alliance that they would receive other answers after the deadline.

SA2 kindly asks CN1, CN3, CN4, SA3 and SA5/SWG-B to consider the attached Liaison Statement and to provide an answer to Wi-Fi Alliance.

DISCUSSION: Orange suggests it is more relevant to CN4, and CN3 is not impacted. However the issue was postponed to allow delegates more time to study the attached LS.

RESULT: The document was POSTPONED to next meeting. 
N3-040332  Reply LS to Request for Comments on Wi-Fi Alliance Public Access MRD draft v1.0, SA2

CONTENT: SA2’s response to the LS from the Wi-Fi Alliance.

SA2 suggest some improvements to the above document in order to make sure that the mobile market requirements are fully taken into account in Wi-Fi Alliance certifications. SA2 suggestions can be found in the attached MRD Comment Form, according to your request.

SA2 underline that the attached comments are limited to architecture related issues, however other groups in 3GPP (CN1, CN3 and CN4) are more relevant when protocols and interfaces are concerned. Similarly, security issues are addressed by SA3 and charging issues are addressed by SA5/SWG-B. Therefore SA2 decided to forward the initial Liaison Statement from Wi-Fi Alliance to these groups, whose expertise in their respective domains will also be quite useful to improve the above MRD Draft v1.0. Please note that they are all working groups of 3GPP, and this is the way 3GPP usually share documents, so this does not conflict any confidentiality restriction according to the initial Liaison Statement sent by Wi-Fi Alliance. These working groups may have additional documents to refer to in the MRD in the future.

SA2 suggest that Wi-Fi Alliance liaise also with GSMA/IREG, which is in charge of roaming agreements between operators. GSMA/IREG are in charge of the document IR61 quoted in the MRD Draft v1.0, and they have a WLAN Task Force which should be able to provide useful comments on the WLAN market for mobile operators, too. However, as GSMA/IREG is not under 3GPP organisation, SA2 did not take the responsibility to forward the Wi-Fi Alliance document to them.

RESULT: The document was POSTPONED to next meeting.

N3-040333  Request for comment and liaison statement, Wi-Fi Alliance.

DISCUSSION: Already in 331 and 332 included.

RESULT: The document was NOTED.
8 Release 4 and earlier

REL-4 IS FROZEN: ONLY ESSENTIAL CAT F AND CAT A CRS ARE ALLOWED

8.1 GPRS [GPRS]

N3-040305 CR 29.061-Rel4: QoS profile length, Ericsson.
CONTENT: For the GPRS Negotiated QoS Profile sub attribute in the Radius interface the length indication (L) is missing for Rel-4. This CR defines the length indicator.
DISCUSSION: Seen in previous meetings. CRs to earlier releases were required.
RESULT: The document was AGREED.

N3-040306 CR 29.061-Rel5: QoS profile length, Ericsson.
RESULT: The document was AGREED.

N3-040307 CR 29.061-Rel6: QoS profile length, Ericsson.
RESULT: The document was AGREED.

8.2 Circuit switched Bearer Services [CS Data]

N3-040277 Discussion: Inconsistencies and omissions concerning the description of the network initiated in-call modification in TS 24.008, TS 27.001, and TS 29.007, Siemens.
CONTENT: With the transition from GSM phase 1 to phase 2 the textual description of the in-call modification in TS 24.008, subclause 5.3.4.3.2, was changed in such way that for the network initiated case the order of sequence between the transmission of MODIFY COMPLETE and the change of the channel configuration (radio bearer reconfiguration) was reversed.
While this new order of sequence creates some problems for the MS, as we have seen in the previous section, it apparently does not provide any advantages. Therefore, Siemens propose to modify the text in TS 24.008 so that the old order of sequence is restored.
DISCUSSION: CN1 has concluded that figure 5.10b is correct. The CR to CN1 specifications is agreed in principle.
RESULT: The document was NOTED.

CONTENT: The condition when to start the synchronization process during a network initiated in-call modification is added.
DISCUSSION: Ericsson agreed with the change suggested a re-structuring of the text to improve clarity.
Dependency of CN1 CR needs to be reflected.
RESULT: The document was REVISED to 0363.

N3-040363 CR 27.001-R99: Addition of network initiated in-call modification, Siemens.
RESULT: The document was AGREED.
N3-040279  CR 27.001-Rel4: Addition of network initiated in-call modification, Siemens.
RESULT: The document was REVISED to 0364.

N3-040364  CR 27.001-Rel4: Addition of network initiated in-call modification, Siemens.
RESULT: The document was AGREEN.

N3-040280  CR 27.001-Rel5: Addition of network initiated in-call modification, Siemens.
RESULT: The document was REVISED to 0365.

N3-040365  CR 27.001-Rel5: Addition of network initiated in-call modification, Siemens.
RESULT: The document was AGREEN.

DISCUSSION: Ericsson agreed with the change suggested a re-structuring of the text to improve clarity.
Dependency of CN1 CR needs to be reflected.
RESULT: The document was REVISED to 0366.

RESULT: The document was AGREEN.

N3-040282  CR 29.007-Rel4: Addition of network initiated in-call modification, Siemens.
RESULT: The document was REVISED to 0367.

N3-040367  CR 29.007-Rel4: Addition of network initiated in-call modification, Siemens.
RESULT: The document was AGREEN.

N3-040283  CR 29.007-Rel5: Addition of network initiated in-call modification, Siemens.
RESULT: The document was REVISED to 0368.

N3-040368  CR 29.007-Rel5: Addition of network initiated in-call modification, Siemens.
RESULT: The document was AGREEN.

N3-040284  CR 24.008-R99: Correction of the network initiated in-call modification Siemens.
RESULT: The document was NOTED.

8.3  Bearer Independent Circuit switched Core network [CSSPLIT]
No input to this agenda item.

8.4  Technical Enhancements & Improvements [TEI]
No input to this agenda item.
9.1 e2e QoS for IM Subsystem [E2EQoS]

N3-040285  CR 29.207: DRQ Sub-code, Nokia.
CONTENT:  Value for Sub-code: “deactivation of the PDP context”
DISCUSSION:  Nortel felt that this change duplicates information of codes already defined in COPS.
Siemens proposed offline discussions
RESULT:  The document was REVISED to 0347.

N3-040347  CR 29.207: DRQ Sub-code Nokia
DISCUSSION:  Reason for change is no longer valid. Minor editorials to the coverpage.
RESULT:  The document was REVISED to 0398.

N3-040398  CR 29.207: DRQ Sub-code Nokia
RESULT:  The document was AGREED.

N3-040309  CR 29.207: PDP context modification without binding information Siemens
CONTENT:  Allows a PDP context modification without binding information if binding information has been previously provided for the PDP context.
DISCUSSION:  Ericsson suggested there is a risk that a user can get a free bearer and then modify this free bearer for general use.
Offline discussions required.
RESULT:  The document was REVISED to 0394.

N3-040394  CR 29.207: PDP context modification without binding information Siemens
DISCUSSION:  Spelling error in new text
RESULT:  The document was REVISED to 0399.

N3-040399  CR 29.207: PDP context modification without binding information Siemens
RESULT:  The document was AGREED.

N3-040310  CR 29.208: Media component removal flow Siemens
RESULT:  The document was REVISED to 0335 before presentation.

N3-040335  CR 29.208: Media Component removal call flow, Siemens
CONTENT:  Add flow for media component removal with authorization revokation.
DISCUSSION:  Incorrect reference (relates to Rel-6 change)
Nortel does not see the specifications as contradicting.
Offline discussions took place in order to agree the text.
RESULT:  The document was REVISED to 0348.
9.2 Service change and UDI fall back [SCUDIF]

No input to this agenda item.

9.3 Technical Enhancements & Improvements [TEI]

No input to this agenda item.
10.1 Interworking between IM subsystem and IP [IW-CCR-IWIP]

No input to this agenda item.

**WI STATUS:** Still awaiting progress from SA2 concerning IPv4 – IPv6 interworking. CN1 has taken a lot of this work in 29.162 for end to end SIP handling, based on the CN3 TR 29.962.

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

**WI STATUS:** 29.163 is complete, CODEC negotiation BICC and IMS is an add on to this feature. This Work item is complete for Rel-6

N3-040270 CR 29.163: Codec Negotiation between BICC CS networks and the IM CN subsystem, Lucent.

**CONTENT:** Introductory and explanatory text for codec negotiation. This text is only required whilst codec negotiation control plane forms part of Annex B for Rel-6. Upon move of this topic into clause 7.3 of this TS the introductory text will be deleted.

**DISCUSSION:** Reference to TrFO specification is missing. This needs to be added.

Decided to delete the last 2 sentences. If the information is seen as required we can move this to Annex A.

Some companies wanted to see some of the text deleted. This issue is left open until later in the meeting.

**RESULT:** The document was REVISED to 0349.

N3-040349 CR 29.163: Codec Negotiation between BICC CS networks and the IM CN subsystem, Lucent.

**DISCUSSION:** Cat is incorrect F should be B (new feature). Also Rev status = 1.

**RESULT:** The document was AGREED.

N3-040271 CR 29.163: Codec negotiation incoming call interworking, Lucent

**CONTENT:** Interworking procedure for incoming SIP to BICC calls at I-MGCF and BICC to SIP at O-MGCF.

**DISCUSSION:** Editorial change (must to be removed). Offline discussions to correct some text.

**RESULT:** The document was REVISED to 0350.

N3-040350 CR 29.163: Codec negotiation incoming call interworking, Lucent

**DISCUSSION:** Cat is incorrect F should be B (new feature). Also Rev status = 1.

**RESULT:** The document was AGREED.

N3-040272 CR 29.163: Codec negotiation Mid call interworking, Lucent

**CONTENT:** Provides text detailing the mid-call SIP to BICC and BICC to SIP interworking at I-MGCF and O-MGCF by negotiation.

**DISCUSSION:** Assorted comments from Ericsson.

**RESULT:** The document was REVISED to 0351.
N3-040351  CR 29.163: Codec negotiation Mid call interworking, Lucent.

DISCUSSION: Remove the term “incoming”.

Ericsson can agree to this CR, but may bring additional CRs on this issue to further meetings.

RESULT: The document was REVISED to 0396.

N3-040396  CR 29.163: Codec negotiation Mid call interworking, Lucent.

RESULT: The document was AGREED.

N3-040273  CR 29.163: Codec parameter translation between BICC CS network and the IM CN subsystem, Lucent.

CONTENT: Addition of codec parameter translation procedures for codec negotiation.

DISCUSSION: SA4 need to see the changes related to coding. Also there is a lot of new text and more time is required to study the text. Also CN4 need to see this because of the TrFO issues that need checking. Finally, it was decided that CN3 can specify the mapping function without any consultation with SA4 and CN4.

Various corrections required to the terminology and completion of the references.

RESULT: The document was REVISED to 0352.

N3-040352  CR 29.163: Codec parameter translation between BICC CS network and the IM CN subsystem, Lucent.

DISCUSSION: Cat is incorrect F should be B (new feature). Also Rev status = 1. To correct the title.

RESULT: The document was AGREED.

N3-040274  CR 29.163: MGCF IM-MGW interaction Lucent

CONTENT: Adds clause B.3 to annex B with four new message sequence charts.

DISCUSSION: Some confusion surrounded the example given in this CR. This was taken offline.

It was mentioned that the figures were not reviewed at the last meeting.

Some offline discussions took place.

RESULT: The document was REVISED to 0353.


DISCUSSION: Add the correct names to the procedures. Siemens will assist with this offline. Minor spelling errors and coverpage corrections.

RESULT: The document was REVISED to 0397.

N3-040397  CR 29.163: MGCF IM-MGW interaction, Lucent.

RESULT: The document was AGREED.

N3-040286  CR 29.163: Notify IMS RTP Tel Event message sequence, Nokia, Siemens.

CONTENT: Confusing and misleading details have been removed from Figure 48 and Event values have been added.

RESULT: The document was AGREED.
N3-040308  CR 29.163: Correction of sub-clause 7.2.3.2.5.1 Backward call indicators Ericsson
CONTENT: The code point value is changed to 00.
RESULT: The document was AGREED.

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

No input to this agenda item.
WI STATUS: This Work item is complete for Rel-6

10.4  Gq interface for Dynamic Policy control enhancements [QoS1]

WI STATUS: 29.209 is to be presented to the next CN Plenary for information.
This Work item is considered as 60% complete.

N3-040269  CR 29.209: Clarify the use of Agents in Gq Nortel Networks
CONTENT: A clarification is added allowing for not using agents in the IMS case.
DISCUSSION: Siemens supported the change as a good clarification.
RESULT: The document was AGREED.

CONTENT: New AVP defining the AF-Application-Identifier
DISCUSSION: Orange suggested AVP should be a global one and not specific.
This is under the media component for granularity.
Add a note to the text (Thomas to supply details).
RESULT: The document was REVISED to 0356.

DISCUSSION: Offline discussion resulting in modifications.
RESULT: The document was REVISED to 0383.

RESULT: The document was AGREED.

CONTENT: New AVP Bearer-Authorization-Info-Policy indicating whether the PDF needs to contact
the AF at the bearer reservation or not.
DISCUSSION: Content is contained in the Siemens proposal 0320.
RESULT: The document was WITHDRAWN.
N3-040320  CR 29.209: Gq-Specific-Action AVP, Siemens.
CONTENT:  AF does not use Bearer-Authorization-Info-Policy AVP in addition to Gq specific Action AVP to request notifications of bearer events. No Gq specific Action AVP in AAA means no action is requested.
In addition Correction in 5.1.1: Describe cases where AF has requested notification at bearer authorization.
DISCUSSION:  Alternative proposal in 0289. Nortel supported the Siemens proposal. Ericsson supported both, but had a slight preference for Siemens proposal. Nokia had no worries with accepting the Siemens proposal.
Some minor changes to the text.
RESULT:  The document was REVISED to 0357.

N3-040357  CR 29.209: Gq-Specific-Action AVP, Siemens.
RESULT:  The document was AGREED.

N3-040290  CR 29.209: Media-Type AVP, Nokia.
CONTENT:  New AVP defining the session component media type, e.g. audio, video.
DISCUSSION:  Naming needs to be aligned with other contributions.
RESULT:  The document needs to be aligned.
REVISED

N3-040382  CR 29.209: Media-Type AVP, Nokia.
RESULT:  The document was AGREED.

N3-040291  CR 29.209: Max Bandwidth AVP, Nokia
CONTENT:  New AVP defining the maximum allowed bandwidth
DISCUSSION:  Units of measure are missing.
Introduce separate values for uplink and downlink. Some suggested text in Siemens contribution 0317.
RESULT:  The document was REVISED to 0358.
REVISED

N3-040358  CR 29.209: Max Bandwidth AVP, Nokia.
RESULT:  The document was REVISED to 0379 before presentation.
REVISED

N3-040379  CR 29.209: Max Bandwidth AVP, Nokia.
RESULT:  The document was AGREED.

N3-040292  CR 29.209: Service information, Nokia.
CONTENT:  Adds new AVPs and defines their usage.
DISCUSSION:  Relates to several other contributions to this meeting.
It was expected that the offline discussion resolve the overlaps between documents.
The offline session had come to some agreement on the best way forward.
RESULT:  The document was Merged into 0372.
N3-040293  CR 29.207: DRQ Sub-code, Nokia.
CONTENT:  New Sub-code “insufficient bearer resources” added and values for DRQ Sub-codes defined.
DISCUSSION:  Proposed a re-wording of the two codes so it is clear what cases it refers to.
RESULT:  The document was REVISED to 0362.

N3-040362  CR 29.207: DRQ Sub-code, Nokia.
DISCUSSION:  Several type errors – Some alignment required with the drafting rules. Summary of change is misleading.
RESULT:  The document was REVISED to 0401.

N3-040401  CR 29.207: DRQ Sub-code, Nokia.
DISCUSSION:  Editorial changes required.
RESULT:  The document was REVISED to 0415.

N3-040415  CR 29.207: DRQ Sub-code, Nokia.
RESULT:  The document was AGREED.

CONTENT:  Some AF/P-CSCF related text is removed (moved to 29.209). Also some fine tuning of the text.
DISCUSSION:  Depends on the outcome of the service discussion.
RESULT:  The document was REVISED to 0380.

RESULT:  The document was WITHDRAWN.

RESULT:  The document was REVISED to 0381.

RESULT:  The document was WITHDRAWN.

N3-040296  Discussion: Filtering Nokia
RESULT:  The document was WITHDRAWN.

N3-040297  Discussion: IP Flow / Media Component granularity Nokia
RESULT:  The document was MERGED into 0372.

N3-040311  CR 29.208: Media component removal flow, Siemens.
RESULT:  The document was REVISED to 0336.
N3-040336  CR 29.208: Media component removal flow, Siemens.
RESULT: The document was REVISED to 0373.

N3-040373  CR 29.208: Media component removal flow, Siemens.
DISCUSSION: Old version of modified figure is not shown as deleted.
RESULT: The document was REVISED to 0419.

N3-040419  CR 29.208: Media component removal flow, Siemens.
RESULT: The document was AGREED.

N3-040312  CR 29.208: General Mapping, Siemens.
CONTENT: New generic Description Clause added, IMS specific clause updated. Minor Corrections for UE.
DISCUSSION: Ericsson has an alternative proposal in 0344.
Nortel has concerns about some informative text in normative clauses – was discussed offline between interested parties.
RESULT: The document was REVISED into 0376.

N3-040376  CR 29.208: Generic Description of QoS Mapping, Siemens.
CONTENT: Contains only the general descriptions
DISCUSSION: Specific mapping is contained in 0374.
7.1.1 contains a significant editors note about a requirement for additional changes. These changes are contained in other contributions.
Some minor editorial corrections were required to the text.
Ericsson will provide comments offline.
RESULT: The document was REVISED into 0413.

N3-040413  CR 29.208: Generic Description of QoS Mapping, Siemens.
DISCUSSION: Term ‘recommended’ is not correct – needs to be aligned with drafting rules.
RESULT: The document was REVISED into 0423.

N3-040423  CR 29.208: Generic Description of QoS Mapping, Siemens.
RESULT: The document was AGREED.

CONTENT: It is described how the requested QoS parameters per flow identifier can be generated by the P-CSCF, thus making the mapping into maximum authorized QoS values in the PDF very simple.
DISCUSSION: An alternative to Siemens proposal in 0312.
Covers also the specific descriptions, hence has an overlap with other documents. Siemens contribution is only related to the Generic part.

RESULT: The document was NOTED.

N3-040313 CR 29.208: Service information mapping Siemens
RESULT: The document was WITHDRAWN.

CONTENT: New Media component number, Flow number, Flows, and Flow-Grouping AVPs are introduced and their usage is described.
DISCUSSION: Some offline discussion remained. Decide to split the document into two parts. One more contentious than the other.
RESULT: The document was SPLIT into 359, 360 and 361.

CONTENT: New Media component number, Flow number AVPs are introduced.
DISCUSSION: Error in component number. Naming needs to be aligned with other contributions.
RESULT: The document was REVISED into 0402.

DISCUSSION: Hyphen missing.
RESULT: The document was REVISED into 0416.

RESULT: The document was AGREED.

CONTENT: Describes the Flows AVP and their usage.
RESULT: The document was AGREED.

CONTENT: New Flow-Grouping AVPs is introduced and usage is described.
DISCUSSION: Change to the flow format. Minor editorial changes.
RESULT: The document was REVISED into 0403.

RESULT: The document was AGREED.

N3-040315 Discussion: Flow description, Siemens.
DISCUSSION: Handled offline with other contributions.
RESULT: The document was WITHDRAWN.
CONTENT: Modifications to rules and permissions.
DISCUSSION: Nortel agreed with this kind of limitation, but suggested better wording.
RESULT: The document was REVISED to 0369.

DISCUSSION: Minor change to one character.
RESULT: The document was REVISED to 0404.

RESULT: The document was AGREED.

N3-040317  CR 29.209: Service information, Siemens.
CONTENT: Session Description AVP Is completed and AVP used within are introduced.
DISCUSSION: Some alignment is required between this and other CRs.
Ericsson contribution relates to Service information (0343).

CN3 agreed that we need description of two levels of granularity. One for media component and another for IP flow.
Some Disagreement on the specifics and the number of AVPs required to do this.
Siemens is for one AVP, Nokia is for two AVPs. Nortel supported looking first at the IP flow level, and after examining the media component level <Siemens could not support this>. Ericsson suggested examining both levels individually and then attempt to merge the two solutions. If it is not possible to merge them, then will retain separate solutions.

CN3 agreed to first examine the separate case, and then attempt to combine the solution.
Nokia and Siemens will combine their Media component approach. Ericsson have the IP flow approach.
RESULT: The document was MERGED with others into 0372.

N3-040318  CR 29.209: Gate Control, Siemens.
DISCUSSION: Several comments were made to the content. Remove all text referring to Gate control.
Split into 370 and 371.
RESULT: The document was REVISED to 0370.

N3-040370  CR 29.209: Gate Control, Siemens.
RESULT: The document was AGREED.

N3-040371  CR 29.209: Direction dependant value for media control status, Siemens.
RESULT: The document was WITHDRAWN.

CONTENT: The CR transfers the Access-Network-Charging-Identifier also in RAR.
RESULT: The document was AGREED.
N3-040321 Discussion: Multiple authorization token generation in the PDF, ORANGE
RESULT: The document was REVISED to 342 before presentation.

N3-040342 Discussion: Multiple authorization token generation in the PDF, ORANGE.
CONTENT: Present the issue of multiple authorization token generation, and suggests two possible directions for a solution.
DISCUSSION: Nortel explained that this is currently being discussed in SA2. Provided a discussion document from SA2 to CN3 for further information.
Suggest sending a LS to SA2 expressing CN3’s concerns. The LS is contained in 0377.
RESULT: The document was NOTED.

N3-040377 LS out on Multiple authorization token generation in the PDF, CN3.
CONTENT: In this LS, CN3 ask SA2 to clarify the issues on the criteria for generating multiple authorization tokens in the PDF and on the possibility to define a life time for the unused authorization tokens stored in the PDF.
DISCUSSION: Suggest adding a list of questions. Also, some corrections required to some minor editorials.
RESULT: The document was REVISED to 0405.

N3-040405 LS out on Multiple authorization token generation in the PDF, CN3.
RESULT: The document was APPROVED.

N3-040322 Discussion: Gq session abort cause codes, Nokia.
RESULT: The document was REVISED to 0387 before presentation.

N3-040387 Discussion: Gq session abort cause codes, Nokia.
RESULT: The document was REVISED to 0406

N3-040406 Discussion: Gq session abort cause codes, Nokia.
RESULT: The document was AGREED.

N3-040324 CR 29.209: reused Diameter AVPs at the Gq interface, Siemens.
CONTENT: Describe reused AVPs.
DISCUSSION: Some minor editorial changes. Changes will be merged into another clause.
RESULT: The document was REVISED to 0378.

N3-040378 CR 29.209: reused Diameter AVPs at the Gq interface, Siemens.
RESULT: The document was AGREED.

N3-040287 CR 29.209: Session Component Description Nokia
CONTENT: New AVP defined to facilitate the information service definition decisions.
DISCUSSION: Alternative proposal in 0325.
RESULT: The document was MERGED into 0355.

N3-040325  CR 29.209: Service information terminology, Siemens.
CONTENT: Session Description replaced by Service Information.
DISCUSSION: Alternative proposal in 0287.
RESULT: The document was MERGED into 0355.

CONTENT: Session Description replaced by Service Information.
DISCUSSION: Spelling errors need to be corrected.
RESULT: The document was REVISED to 0400.

N3-040400  CR 29.209: Service information terminology, Siemens, Nokia.
RESULT: The document was AGREED.

N3-040343  Generic Service Description for Gq, Ericsson.
CONTENT: The CR proposes to avoid definition of Gq data in terms of explicit SDP parameters and to hide session media negotiation signalling from the Gq interface.
DISCUSSION: Relates to 0287, 0325 and also 317.
Suggestion to remove the 2nd paragraph of 6.5.12. Suggest adding a note explaining the IP flow condition.
Some wording / title changes required following the decision to examine media components and IP flows separately.
Require a description for the mapping information.
Discussed in an offline session along with 0292, 0317.
RESULT: The document was REVISED to 0372.

N3-040372  Generic Service Description for Gq, Ericsson, Nokia, Siemens.
DISCUSSION: Some changes to naming and editorial corrections.
RESULT: The document was REVISED to 0407.

N3-040407  Generic Service Description for Gq, Ericsson, Nokia, Siemens.
RESULT: The document was AGREED.

N3-040326  CR 29.209: Remove Session Authorization Type AVP, Siemens.
CONTENT: Remove Session Authorization Type AVP.
DISCUSSION: AVP will be put into alphabetical order when the CR is implemented.
RESULT: The document was AGREED.

N3-040327  CR 29.208: Service information mapping with IpFilterType, Siemens.
RESULT: The document was REVISED to 0374.
N3-040374  CR 29.208: Service information mapping with IpFilterType, Siemens.
CONTENT: Contains only the Specific descriptions
DISCUSSION: Many changes resulted from offline discussions. Several mistakes in the table – more time required for checking the contribution.
The meeting supported the merge of the various CRs into a single contribution to make the draft versions of the TS(s) into the official versions if approved by CN Plenary.
RESULT: The document was REVISED to 0408.

N3-040408  CR 29.208: Service information mapping with IpFilterType, Siemens.
DISCUSSION: Some notation changes are required to the units. Also the CR contains some minor type errors.
RESULT: The document was REVISED to 0420.

N3-040420  CR 29.208: Service information mapping with IpFilterType, Siemens.
DISCUSSION: Nortel requested some more time to check the tables. This CR will be put on email approval until 1st June 2004.
Nokia proposed not presenting this summary CRs to plenary for 29.207 and 29.208. Ericsson supported continuing with the unofficial versions of 29.207 and 29.208.
RESULT: The document was placed on EMAIL APPROVAL.

CONTENT: Make Access-Network-Charging-Identifier a grouped AVP including Flow Ids along with new Access-Network-Charging-Identifier-Value AVP.
RESULT: The document was AGREED.

N3-040329  Unofficial version 2.1 of TS 29.208, Siemens.
RESULT: The document was NOTED.

CONTENT: Gq message usage description improved in PDP context release scenarios.
RESULT: The document was AGREED.

N3-040424  TS 29.209 latest version, Nokia.
DISCUSSION: To be presented to Plenary for information.
RESULT: The document was DISTRIBUTED by EMAIL.

N3-040425  Unofficial version 3 of TS 29.207, Siemens.
RESULT: The document was DISTRIBUTED by EMAIL.

N3-040426  Unofficial version 3 of TS 29.208, Siemens.
RESULT: The document was DISTRIBUTED by EMAIL.
10.5  Support of Presence Capability [PRESENC]

No input to this agenda item.

NOTE: Only a minor amount of modification is required to the CN3 Stage 3. Interested companies are requested to bring this to the next CN3 meeting.

WI STATUS: Only a minor change required to be added to 29.061 for the Pk interface. This work item is 0% complete.

10.6  Multimedia Broadcast and Multicast Service [MBMS]

WI STATUS: Open issues with:
- Release of Radius attributes,
- Error case handling
- Application IDs. (possibly)
- CN4 numbering for AVPs need to be coordinated with CN4.

This work item is 50% complete.

CONTENT: Presented at previous CN3 meeting under a different CR name and number.
DISCUSSION: Needs to be merged with other contributions.
RESULT: The document was REVISED to 0393.

N3-040393  CR 29.061: Gmb Introduction, Nortel Networks.
RESULT: The document was AGREED.

N3-040276  CR 29.061: Gmb messages flows, Nortel Networks.
CONTENT: Presented at previous CN3 meeting under a different CR name and number.
New text used as the basis for CR in 0266.
RESULT: The document was MERGED into 0384.

CONTENT: Introduction of more level of detail to the messages flows, as requested by CN3 during the last meeting.
This CR is based upon the new text introduced in 0276.
DISCUSSION: Some minor corrections to the figures and flows. Missing information [xxx = clause 17.5.5].
Possibility to have procedure boxes for the explanations.
Merge the messages 7 and 8.
RESULT: The document was REVISED to 0384.

DISCUSSION: Some minor editorial corrections are required to the text. The figure numbers need to be identified.
RESULT: The document was REVISED to 0411.
RESULT: The document was AGREED.

N3-040265  CR 29.061: Gmb Commands and AVPs (II), Nortel Networks.
CONTENT: Introduction of new sections, containing some Gmb messages and AVPs.
DISCUSSION: Missing references.
Ericsson asked for more time to check the relations to RADIUS.
RESULT: The document was REVISED to 0385.

N3-040385  CR 29.061: Gmb Commands and AVPs (II), Nortel Networks.
DISCUSSION: Cannot re-use the RADIUS number space. Requirement to request a new AVP codes.
Send LS to CN4 on this issue, LS contained in 0409. Agreed to add an editor’s note explaining this.
RESULT: The document was REVISED to 0410.

N3-040410  CR 29.061: Gmb Commands and AVPs (II), Nortel Networks.
RESULT: The document was AGREED.

N3-040409  LS to CN4 on LS on Re-use of RADIUS attributes within the 3gpp specific vendor id, CN3
CONTENT: CN3 asks CN4 to provide guidance on the re-use of certain RADIUS attributes in Diameter AVPs.
DISCUSSION: Slight re-wording to the text to provide more clarity.
RESULT: The document was REVISED to 0421.

N3-040421  LS to CN4 on LS on Re-use of RADIUS attributes within the 3gpp specific vendor id, CN3
RESULT: The document was APPROVED.

N3-040267  CR 29.061: Command to indicate Session Start/Stop, Nortel Networks.
CONTENT: The Session Start and Session Stop commands are defined as Re-Authorization-Request/Answer commands with a newly defined set of AVPs to fulfil the requirements.
DISCUSSION: Clarification required on the issue of application ID. A note will be added to say we are still looking at the need for a new ID or the re-use of NASRAQ. Note this issue is being discussed on the IETF AAA email list.
Part of this CR is covered by another contribution. The remaining part is revised into a new document.
RESULT: The document was REVISED to 0386.

N3-040386  CR 29.061: Command to indicate Session Start/Stop, Nortel Networks.
RESULT: The document was AGREED.
10.7 WLAN – UMTS Interworking [WLAN]

**WI STATUS:** CN3 are dependant with work in other groups (see 0298).
This work item is 40% complete

N3-040298  TS 29.161 v 0.2.0: Interworking between PLMN with WLAN access and PDN Nokia

**CONTENT:** Minor changes are proposed to indicate the dependencies of open issues on other groups.

**DISCUSSION:** CN3 is blocked by the work underway in other groups.
Will be placed to Draft section of FTP server.

**RESULT:** The document was AGREED.

N3-040414  Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking, Lucent.

**CONTENT:** A revision of the WLAN interworking that had been reviewed by CN1 and CN4, and requires comments from CN3.

**DISCUSSION:** TS 29.161 completion dates to be move back by one plenary due to dependencies on other groups. Also add the title of 29.161.
After some consideration the issue of the Wg interface work being allocated to CN WGs was re-opened. Companies needed time to check this and will report back to the next CN3 meeting.

Norbert will report the status of this issue to CN Plenary. It is possible that the Wg interface work needs to be done in CN3 and not CN4.

**RESULT:** The document was REVISED to 0417.

N3-040417  Revision of WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking, Lucent.

**DISCUSSION:** ENDORSED by CN3

**RESULT:** The document was ENDORSED.

10.8 Gx Interface

**WI STATUS:** New TS has been created, work only recently received from SA2
WID will be presented to next Plenary.
This work item is 10% complete

N3-040263  Discussion: Gx reference point, Nortel Networks.

**CONTENT:** The proposal is to specify Gx simply as a set of AVPs that can be added to the various existing Diameter and RADIUS application messages as requested by the operator specific configuration:

**DISCUSSION:** LS from SA2 on this subject was unclear and did not identify the relevant issues.

SA2 should have sent a clear LS on this issue as opposed to asking companies to take contributions direct to other WGs.

Some concerns with merging Go and Gx interfaces. Ericsson added that there is some overlapping between the Go and Gx interfaces, and examining the merging could be useful.

Three areas of discussion:

- What is the information that is transferred via the Gx, and how to code them via AVPs.
- Put the AVPs into some DIAMETER application (can be stand alone or re-use existing functionality)
- Do we wish Gx interface to be matched with other interfaces.

Nokia have some concerns for the Nortel proposal.

Is the re-use of Gx interface up to implementers? There are several different ways of doing this. If it is left up to implementers there may be several solutions in the field.

The discussion showed that there are two different approaches, how to specify the Gx interface. Nortel and Siemens are in favour of specifying One interface realizing several reference points. Nokia and Ericsson preferred a “stand alone protocol” realizing the Gx functionality only.

The way forward identified by the meeting was:
- To try to find alignment for the proposed AVPs for Gx functionality proposed in 0300 and 0264,
- Stand-alone protocol has highest priority according stage 2,
- To study possible flexibilities until next meeting,
- To continue with Nokia’s TS (0300) and identify impacts because of flexibility.

RESULT:

The document was NOTED.


CONTENT:
Introduces the Gx reference point in 29.061.

DISCUSSION:
Wish to align the AVPs for the Gx functionality. The discussions on the use of Radius or Diameter are somewhat premature.

Several companies were not comfortable with the introduction of an option to use Radius or Diameter.

Some offline discussion required with Nokia on this issue.

RESULT:

The document was NOTED.

N3-040299 WID: Gx interface specification for flow based charging, Nokia.

DISCUSSION:
Add the TS number [29.910]. Completion dates are short, agreed to push back by one plenary.

RESULT:

The document was REVISED to 0389.

N3-040389 WID: Gx interface specification for flow based charging, Nokia.

DISCUSSION:
Nortel asked why the number was chosen – would be better to align with the Gy number. The 29 series is mainly used for the interfaces between the PLMN and outside world. Protocols within the PLMN are usually with the 24 series. Also CN3 did not want to step into the series of numbers typically used by SA5.

RESULT:

The document was APPROVED.

N3-040300 TS: Charging rule provisioning over Gx interface, Nokia.

CONTENT:
Contains the draft TS is proposed to be approved as a basis for the work to develop a Rel-6 Technical Specification for the Gx reference point.

DISCUSSION:
Requirement to align the AVPs to be done offline.
Nortel commented that the proposed structure is not ideal for the Generic definition of AVPs, and this needs some reworking. The joint contribution is contained in 0388 CN3 agree to having a separate TS for the Gx interface.

RESULT: The document was REVISED into 0422.

N3-040422  TS: Charging rule provisioning over Gx interface, Nokia.
DISCUSSION: to be discussed on email.
RESULT: The document was placed on EMAIL DISCUSSION.

N3-040388  TS: Charging rule provisioning over Gx interface, Nokia, Nortel.
RESULT: The document was REVISED to 0418 before presentation.

N3-040418  Charging rule provisioning over Gx interface, Nokia, Nortel.
CONTENT: This discussion paper maps the required information items to Diameters AVPs to be transported over the Gx and proposes them to be approved as a basis for the work and included to the TS 29.210.
DISCUSSION: Have only one filter and identify if it is uplink or downlink in the title. Nokia will check this to see if it aligns with the Qq interface.
Will be merged with the TS and discussed on the CN3 email exploder.
The discussion will also include comments on the structure of the TS.
RESULT: The document was WILL BE MERGED into the new version of the TS (0422).

N3-040301  Discussion: Gx additional aspects, Nokia.
RESULT: The document was WITHDRAWN.

10.9  Rx Interface

WI STATUS: EARLY stages of making the WID.. This work item is 5% complete

N3-040268  A proposed WID on Rx interface specification for flow based charging, Nortel. Networks
DISCUSSION: It is not yet decided if the Rx interface will be defined in a separate specification. Rapporteur and supporting companies are still required. As there is much missing information, this will not go to the next CN plenary. This Work Item will be discussed on the CN3 email exploder. The WID will be presented to CN3#33 meeting along with initial contributions.
RESULT: The document was POSTPONED until next meeting.

10.10 Technical Enhancements & Improvements [TEI]

N3-040302  CR 27.060: Multiple IMS sessions using the same PDP context, Nokia.
CONTENT: The list of abbreviations is fixed. Handling of binding information for multiplexed sessions has been added. A limitation to multiplex different sessions in the same PDP context has been removed.

DISCUSSION: Some minor changes were made to the text.
Remove last sentence, replace UE with MS. Restrict it to IMS sessions as opposed to AF sessions.

RESULT: The document was REVISED to 0391.

N3-040391 CR 27.060: Multiple IMS sessions using the same PDP context, Nokia.
DISCUSSION: Clause 3.2 not affected, can be removed.
RESULT: The document was REVISED to 0412.

N3-040412 CR 27.060: Multiple IMS sessions using the same PDP context, Nokia.
RESULT: The document was AGREED.

N3-040303 CR 29.207: Multiple IMS sessions using the same PDP context Nokia
CONTENT: A limitation to multiplex different sessions in the same PDP context has been removed. Handling of binding information for multiplexed sessions has been added. The content of the authorization decision for a multiplexed PDP context has been defined.
DISCUSSION: Nortel ad some concerns with the change but were willing to accept it.
RESULT: The document was AGREED.

N3-040304 CR 29.208: Multiple IMS sessions using the same PDP context Nokia
CONTENT: Actions and procedures applied at the release of a session multiplexed with other sessions in the same PDP context have been clarified.
RESULT: The document was AGREED.

N3-040345 Interaction of Camel with service change, Ericsson.
RESULT: The document was POSTPONED to CN3#33 meeting.

10.11 Other Rel-6 Work Items

11 Release 7
SCHEDULED FOR THURSDAY AFTERNOON

11.1 New Work Items

N3-040334 WID on DIAMETER on the PDG Wi and the GGSN Gi interface, T-mobile.
RESULT: The document was REVISED to 0392 before presentation.

N3-040392 WID on DIAMETER on the PDG Wi and the GGSN Gi interface, T-mobile.
DISCUSSION: Nokia believe this cannot be done in the Rel-6 timeframe, and would prefer it to be covered in Rel-7. T-mobile confirmed it is also their intention. Has to be reflected in intended completion dates
Dependencies on Wi interface needs to be reflected in the Justification.
Siemens suggested to separate two WIDs for Wi and Gi interfaces, Ericsson supported this. Not really related to the WLAN-UMTS Interworking feature.

29.161 on Wi is an ‘existing’ specification. Move end date back by 6 months. Rapporteur details need to be completed.
This will be re-presented as two WIDs at the next CN3 meeting.

RESULT: The document was NOTED.

12 Joint sessions

NOT FORESEEN AT THE MOMENT
Joint sessions took not place.

13 Elections of CN3 Officials

SCHEDULED FOR TUESDAY 12:00 – 13:00

13.1 Chairman

N3-040258 Candidature for Ragnar HUSLENDE, Ericsson.
DISCUSSION: Ragnar was the unique candidate for the position of CN3 Chairman and was welcomed by acclamation to the role of CN3 Chairman. He will assume his responsibilities at the CN3_33 meeting in Sophia.
RESULT: The document was NOTED.

13.2 Vice-Chairman

N3-040259 Candidature for Thomas Belling, Siemens.
DISCUSSION: Thomas was the unique candidate for the position of second CN3 Vice Chairman and was welcomed by acclamation to his new role. He will assume his responsibilities at the CN3_33 meeting in Sophia.
RESULT: The document was NOTED.

14 Work Organization

14.1 Work Plan Review
Work plan will be reviewed by email before the next CN Plenary.

14.2 Specification Review

N3-040390 Status of CN3’s specifications, MCC.
DISCUSSION: The following changes to Rapporteurs:
Anna SILLANPÄÄ (Nokia) is the rapporteur for 29.209.
Thomas Belling (Siemens) will take 29.007.
24.022 is still open.
RESULT: The document was NOTED.

14.3 Next meetings, allocation of hosts
Agreed dates for 2004

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Fixed dates for CN plenary and proposed Dates for CN WGs for 2005

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<td>30 Nov – 2 Dec 2005</td>
<td>CN plenary #30</td>
<td>TBD, MALTA</td>
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15 Summary of results

15.1 Work Items

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<td>N3-040389</td>
<td>Gx interface specification for flow based charging</td>
<td>Rel-6</td>
<td>Nokia</td>
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1 WID was agreed by CN3, to be sent to the next TSG-CN Plenary for Approval:

15.2 Liaison Statements

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

<table>
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<td>LS on Generation of multiple authorization tokens</td>
<td>SA2</td>
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15.3 TRs / TSs

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1 TS/TR(s) was agreed to be sent to the next TSG-CN Plenary for Information.
## 15.4 Change Requests

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

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</tbody>
</table>

**27 CRs AGREED at this meeting**

**15.5 Other**

None.
16 Any other business

none

17 Close of meeting

Norbert closed the 32 meeting on Friday 14th May at 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.

As this was Norbert's final meeting as CN3 chair, there was a presentation of kind words and a small token of CN3’s recognition of all that Norbert has brought to CN3 over the past 5 years. He will be sorely missed and CN3 wishes him all the best as Siemens representative to CN Plenary.
## Annex A: List of CN3 Meeting Participants

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Member (Organization)</th>
<th>Country</th>
<th>Phone Number</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Susanna Kallio</td>
<td>Nokia Japan Co, Ltd</td>
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<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Mr. Jarkko Ansamaa</td>
<td>NOKIA Corporation</td>
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<td>+358504821711</td>
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</tr>
<tr>
<td>Dr. Thomas Belling</td>
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<td>+49 89 636 75207</td>
<td><a href="mailto:Thomas.Belling@siemens.com">Thomas.Belling@siemens.com</a></td>
</tr>
<tr>
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<td>+38521434938</td>
<td><a href="mailto:alen.bulle@ericsson.com">alen.bulle@ericsson.com</a></td>
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<tr>
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<td>+385 21 434 937</td>
<td><a href="mailto:Damir.D.B.Buric@ericsson.com">Damir.D.B.Buric@ericsson.com</a></td>
</tr>
<tr>
<td>Mr. Richard Ejzak</td>
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<td>3GPPMEMBER (ETSI)</td>
<td>US</td>
<td>+1 630 979 7036</td>
<td><a href="mailto:ejzak@lucent.com">ejzak@lucent.com</a></td>
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<tr>
<td>Ing. Mauro Ficaccio</td>
<td>TELECOM ITALIA S.p.A.</td>
<td>3GPPMEMBER (ETSI)</td>
<td>IT</td>
<td>+390112287331</td>
<td><a href="mailto:mauro.ficaccio@telecomitalia.it">mauro.ficaccio@telecomitalia.it</a></td>
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<tr>
<td>Mr. Nico Gabriele</td>
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<td>3GPPMEMBER (ETSI)</td>
<td>GB</td>
<td>+447717781832</td>
<td><a href="mailto:Nico.Gabriele@vodafone.com">Nico.Gabriele@vodafone.com</a></td>
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<tr>
<td>Mr. Javier Gonzalez Gallego</td>
<td>NOREL NETWORKS (EUROPE)</td>
<td>3GPPMEMBER (ETSI)</td>
<td>GB</td>
<td>+441628432000</td>
<td><a href="mailto:ragnar.huslende@ericsson.com">ragnar.huslende@ericsson.com</a></td>
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<tr>
<td>Miss Constance Guilleray</td>
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<td>3GPPMEMBER (ETSI)</td>
<td>FR</td>
<td>+33 1 45 29 62 08</td>
<td><a href="mailto:constance.guilleray@rd.francetelecom">constance.guilleray@rd.francetelecom</a></td>
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<tr>
<td>Dr. Ragnar Huslende</td>
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<td>3GPPMEMBER (ETSI)</td>
<td>NO</td>
<td>+47 452 49237</td>
<td><a href="mailto:WCSK01@motorola.com">WCSK01@motorola.com</a></td>
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<tr>
<td>Mr. Stephen Kendall</td>
<td>MOTOROLA Ltd</td>
<td>3GPPMEMBER (ETSI)</td>
<td>GB</td>
<td>+44 1256 790454</td>
<td><a href="mailto:norbert.klehni@siemens.com">norbert.klehni@siemens.com</a></td>
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<tr>
<td>Mr. Norbert Klehn</td>
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<td>+49 30 386 29090</td>
<td><a href="mailto:matthias.koch@vodafone.com">matthias.koch@vodafone.com</a></td>
</tr>
<tr>
<td>Mr. Matthias Koch</td>
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<td>DE</td>
<td>+492115335431</td>
<td><a href="mailto:stefan.koppenborg@t-mobil.de">stefan.koppenborg@t-mobil.de</a></td>
</tr>
<tr>
<td>Mr. Stefan Koppenborg</td>
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<td>+49 228-936-1277</td>
<td><a href="mailto:juha.a.rasanen@nokia.com">juha.a.rasanen@nokia.com</a></td>
</tr>
<tr>
<td>Mr Juha Rasanen</td>
<td>Nokia Corporation</td>
<td>3GPPMEMBER (ETSI)</td>
<td>FI</td>
<td>+358 40 543 9058</td>
<td><a href="mailto:anna.sillanpaa@nokia.com">anna.sillanpaa@nokia.com</a></td>
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<tr>
<td>Mrs. Anna Sillanpää</td>
<td>NOKIA Corporation</td>
<td>3GPPMEMBER (ETSI)</td>
<td>FI</td>
<td>+358 50 482 0803</td>
<td><a href="mailto:maja.vukusic-vasiljevski@ericsson.com">maja.vukusic-vasiljevski@ericsson.com</a></td>
</tr>
<tr>
<td>Miss Maja Vukusic-vasiljevski</td>
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<td>3GPPMEMBER (ETSI)</td>
<td>SE</td>
<td>+38513653070</td>
<td><a href="mailto:alf.heidermark@ericsson.com">alf.heidermark@ericsson.com</a></td>
</tr>
<tr>
<td>Mr. Alf Heidermark</td>
<td>Ericsson Korea</td>
<td>3GPPMEMBER (TTA)</td>
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<td>+4687273894</td>
<td><a href="mailto:david.boswarthick@etsi.org">david.boswarthick@etsi.org</a></td>
</tr>
<tr>
<td>Mr. David Boswarthick</td>
<td>ETSI Secretariat</td>
<td>3GPPORG_REP</td>
<td>FR</td>
<td>+33 4 92 94 42 78</td>
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22 PARTICIPANTS
### Annex B: List of documents

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176 documents treated at this meeting
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<td>DRAFT v1.1.0 dispatched by e-mail exploder to the CN3 list.</td>
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<td>Comments, if any, to be addressed to:</td>
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<tr>
<td></td>
<td>David Boswarthick, 3GPP TSG-CN3 Support</td>
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<tr>
<td></td>
<td>MCC - ETSI Secrétariat</td>
</tr>
<tr>
<td></td>
<td>Tel :+33 (0)4 92 94 42 78</td>
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<tr>
<td></td>
<td>e-mail: <a href="mailto:david.boswarthick@ETSI.org">david.boswarthick@ETSI.org</a></td>
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