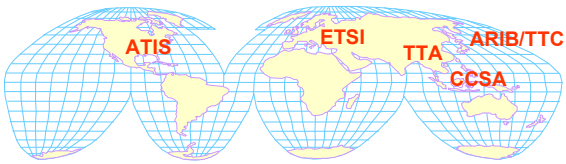

Third Generation Partnership Project

Meeting Report v4.0.0
for
3GPP TSG CN WG3
Meeting #33bis

Sophia Antipolis, France
4th - 7th October 2004.

Hosted by

ETSI

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1. Opening of the Meeting

The CN3 Chairman Mr. Ragnar Huslende opened the meeting at 09:00 on Monday and welcomed the CN3 delegates to Sophia on behalf of the hosts.

Objective of this meeting – progress the identified CN3 Rel-6 WI's in order to allow them to be completed at the next CN3 meeting.

2 Approval of the agenda

N3-040617: **CN3#33b Draft Meeting Agenda, source CN3 Chairman.**

CONTENT: Contains the draft agenda for CN3#33b Meeting.

RESULT: The Agenda was **APPROVED.**

3 Registration of documents

N3-040618 **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.**

N3-040623: **Allocation of documents to agenda items (at start of day 1), source CN3 Chairman.**

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

N3-040619: **Allocation of documents to agenda items (at end of day 1), source CN3 Chairman.**

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

N3-040620: **Allocation of documents to agenda items (at end of day 2), source CN3 Chairman.**

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

N3-040621: **Allocation of documents to agenda items (at end of day 3), source CN3 Chairman.**

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

N3-040622: **Allocation of documents to agenda items (at end of day 4), source CN3 Chairman.**

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

4 Reports

4.1 Report of last CN3 Meeting

N3-040624: **CN3#33 Draft Meeting Report, MCC.**

CONTENT: Contains the draft meeting report for the CN3#33.

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: Siemens comments to N3-040469 were added.

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

⇓ **REVISED** ⇓

N3-040663: **CN3#33 Draft Meeting Report, source MCC.**

RESULT: The document was **APPROVED.**

4.2 Reports from last CN

N3-040625: **Brief notice from CN#25 relevant for CN3, CN3 Chair. NOTED.**

N3-040626: **Email with Highlights of CN#25/SA#25, CN Chair. NOTED.**

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/Ipr/).

6 Items for immediate consideration

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

No input to this agenda item.

7 Received Liaison Statements

N3-040638 **Reply LS on IP-CAN transport for additional IMS capabilities, SA2.**

DISCUSSION: Nokia will examine the content of this LS and see if there is any impact on the changes they will bring to the next CN3 meeting.

RESULT: The document was **POSTPONED to next CN3 meeting.**

N3-040639 **Network control of SBLP PDP Context establishment, SA2.**

CONTENT: During discussions on Session Based Messaging and PoC, SA2 has determined that it would be desirable for IMS UEs to be able to use already established general-purpose PDP Contexts for IMS media components, especially in the case of non-real-time services. Such PDP Contexts might also carry traffic which is not associated with an IMS media component.

SA2 has therefore decided for Release 6 to relax the existing requirement the PDP Contexts used for IMS media components are used only for IMS media components.

However, in networks which use Service Based Local Policy, but which do not use Flow Based Charging for IMS charging, it is still necessary for the network to be able to require that PDP Contexts are dedicated to the IMS media components for charging purposes. SA2 believes that the existing indication that a separate PDP Context is required for a media component (or group of components within a session) is sufficient for this purpose. This has been clarified in 23.228 by the attached CR.

CN3 are asked to make appropriate changes to their Release 6 specifications to take account of this decision.

DISCUSSION: Nokia will examine the content of this LS and see if there is any impact on the changes they will bring to the next CN3 meeting.

RESULT: The document was **NOTED.**

N3-040640 **LS on Supporting MBMS Charging Mechanism, SA2.**

CONTENT: In order to meet the MBMS charging requirements in 22.146 and 22.246, SA2 proposed application level charging mechanisms which was agreed in S2-042927.

In order to permit differential roaming tariffs, the serving network identity for a subscriber using MBMS services needs to be included in the S-CDR at SGSN node for MBMS roaming case. Also, the serving network identity associated with the MSISDN (for a subscriber using MBMS) should be passed from serving/visited SGSN to home GGSN via GTP and then passed to BM-SC for charging purposes.

Furthermore, the BM-SC needs to pass the roaming information (i.e. serving network identity) along with other information to the pre-paid system via Ro interface.

SA2 requests that CN3 to include the serving network identity associated with the MSISDN (for a subscriber using MBMS) in signalling from the GGSN to the BM-SC for charging purposes.

DISCUSSION: Nortel will bring a CR to the next meeting to do the requested action.

RESULT: The document was **NOTED.**

N3-040641 **Re. LS on the Outcome of Harmonization of AMR Configurations, SA4.**

RESULT: The document was **POSTPONED to next CN3 meeting.**

8 Release 4 and earlier

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

No input to this agenda item.

9 Release 5

REL-5 IS FROZEN: ONLY CAT F AND CAT A CRS ARE ALLOWED

No input to this agenda item.

10 Release 6

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

N3-040651 **Additions/corrections to TS29.162, Ericsson.**

CONTENT: The reference for IPv6 is changed. Clauses to describe IP header interworking are added.

DISCUSSION: Minor editorials to the text, and spelling corrections.

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

⇓ **REVISED** ⇓

N3-040696 **Additions/corrections to TS29.162, Ericsson.**

DISCUSSION: Some minor corrections are still required throughout the document.

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

⇓ **REVISED** ⇓

N3-040703 **Additions/corrections to TS29.162, Ericsson.**

DISCUSSION: Some minor corrections are still required throughout the document.

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

⇓ **REVISED** ⇓

N3-040705 **Additions/corrections to TS29.162, Ericsson.**

RESULT: The document was **AGREED.**

N3-040695 **Editorial Corrections to TS29.162, Ericsson.**

CONTENT: Some editorial changes has been carried out on the TS.

DISCUSSION: Minor editorials to the text, and spelling corrections.

General discussion ensured on the IP version independent interworking issue. It was difficult to have a conclusion without a discussion document on the table.

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

⇓ **REVISED** ⇓

N3-040697 **Editorial Corrections to TS29.162, Ericsson.**

DISCUSSION: Some additional editorial modification were required to the document.

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

⇓ **REVISED** ⇓

N3-040704 **Editorial Corrections to TS29.162, Ericsson.**

RESULT: The document was **AGREED.**

Deleted: DISCUSSION: xxx¶

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N3-040706 **TS29.162 v1.2.0, Ericsson.**

CONTENT: To be provided by email before 15th October.

RESULT: The document will be provided by **e-mail.**

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

No input to this agenda item.

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]

N3-040642 CR to 29.208, correcting Mapping Table for early media handling, Siemens.

CONTENT: The CR makes the following changes.

1. In the PDF QoS mapping, the directionality of a media component is derived from the presence or absence of uplink and downlink flow description AVPs, rather than from the Flow Status AVP.
2. A clarifying remark in line with TS 29.209 about the early media handling is added to the SDP to service information mapping table.
3. The rules which flow description AVPs shall be supplied are detailed. The handling of "a=inactive" is clarified. The handling of media put on hold, as already agreed in Rel-5, is also taken into account.

DISCUSSION: Minor spelling error and incorrect clause on cover page.

RESULT: The document was **REVISED to 0676.**

⇓ **REVISED** ⇓

N3-040676 CR to 29.208, correcting Mapping Table for early media handling, Siemens.

RESULT: The document was **AGREED.**

N3-040643 CR to 29.208, Clarification on Mapping Table 7.1.1.1, Siemens.

CONTENT: The CR makes the following changes:-

1. An outdated eritor´s note that the Diameter base protocol mult rounf feature is ffs is removed.
2. A Note is added clarifying that AVPs may be omitted if the same value has already been supplied, as specified in TS 29.209.
3. References to NOTE 3 in table 7.1.0.1 are moved to correct location, as the note provides a reference for SDP parameters handled in the right column.
4. A Note is added clarifying that if AVPs are omitted within a Media-Component-Description AVP or Media-Sub-Component AVP of the service information, the corresponding information from previous service information shall be used, as specified in TS 29.209 [12].

DISCUSSION: Nortel made some comments to the added notes. Had concerns with duplicating information contained in 29.209. This was not changed.

Minor changes required to cover page, and several spelling errors.

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

⇓ REVISED ⇓

N3-040677 **Clarification on Mapping Table 7.1.1.1, Siemens.**

DISCUSSION: Dot agree the last change

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

⇓ REVISED ⇓

N3-040700 **Clarification on Mapping Table 7.1.1.1, Siemens.**

RESULT: The document was **AGREED.**

N3-040644 **CR to 29.209, Semantics of updated Flow-Description AVP(s), Siemens.**

CONTENT: The CR adds new Flow Description AVP(s) within a media-subcomponent replace old flow description AVPs

DISCUSSION: Minor changes required to cover page, and several spelling errors.

RESULT: The document was **REVISED to 0678.**

⇓ REVISED ⇓

N3-040678 **CR to 29.209, Semantics of updated Flow-Description AVP(s), Siemens.**

RESULT: The document was **AGREED.**

N3-040645 **CR to 29.209, Flow grouping AVPs in modified service information, Siemens.**

CONTENT: If Flow-Grouping AVP(s) have been provided in earlier service information, but are not provided in subsequent service information, the old flow grouping remains valid. Rules for the meaning of Flow Grouping AVPs in subsequent service information are also provided.

An encoding to lift any restrictions on the flow grouping is also provided.

Gq flow grouping shall not be made more restrictive if updated AF session signalling is provided.

DISCUSSION: Flows are made optional within flow grouping.

Proposed to remove the first modified sentence. Some re-wording required. Examined offline.

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

⇓ REVISED ⇓

N3-040679 **CR to 29.209, Flow grouping AVPs in modified service information, Siemens.**

RESULT: The document was **AGREED.**

N3-040646 **CR to 29.209, Smaller corrections to avoid misinterpretations, Siemens.**

CONTENT: The CR makes several changes to 29.209 for clarification of the content.

DISCUSSION: Missing references (need to be aligned with the rest of the TS).

Some "shalls", "mays" and "cans" were modified.

Changes to 6.5.12 were removed.

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

⇓ REVISED ⇓

N3-040680 **CR to 29.209, Smaller corrections to avoid misinterpretations, Siemens.**

RESULT: The document was **AGREED.**

N3-040647 **Timer for bearer modification indication, Siemens.**

RESULT: The document was **WITHDRAWN.**

N3-040648 **CR 29.209, Resource reservation at PDF, Siemens.**

CONTENT: The CR removes an erronous sentence speaking about impossible conditions

DISCUSSION: Nortel question the necessity to delete the text.

RESULT: The document was **POSTPONED to next CN3 meeting.**

N3-040675 **CR to 29.208, Allowing the use of Application identifier for IMS, Nokia.**

CONTENT: Sentence removed restricting the use of Application identifier for IMS.

DISCUSSION: Siemens proposed some additional text to deal with QoS downgrading.

A discussion ensured on the option of downgrading service as a reduce of reduced bandwidth. Delegates saw this flexibility as a useful option. As it was an option, all present could agree to the inclusion of this function.

Minor changes to the wording and the cover page. (remove word 'completely'). Update summary of change to include new change.

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

⇓ **REVISED** ⇓

N3-040688 **CR to 29.208, Allowing the use of Application identifier for IMS, Nokia.**

DISCUSSION: Nortel and Siemens was this as a compromise solution, but could agree to it.

Minor editorial changes required.

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

⇓ **REVISED** ⇓

N3-040702 **CR to 29.208, Allowing the use of Application identifier for IMS, Nokia.**

RESULT: The document was **AGREED.**

10.5 Support of Presence Capability [PRESENC]

No input to this agenda item.

10.6 Multimedia Broadcast and Multicast Service [MBMS]

N3-040633 **CR to 29.061, Gmb. Table with reused AVPs Nortel, Networks.**

CONTENT: Table added with the reference to the AVPs definitions.

DISCUSSION: Minor editorial changes to the wording.

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

⇓ **REVISED** ⇓

N3-040685 **CR to 29.061, Gmb. Table with reused AVPs Nortel, Networks.**

RESULT: The document was **AGREED.**

N3-040634 **CR to 29.061, Gmb. New AVP to indicate Multicast or Broadcast service, Nortel Networks.**

CONTENT: New AVP added indicating the type of MBMS service that the BM-SC is going to provide.

DISCUSSION: Codes have been requested from CN4. Expected to be delivered in the CN3 November meeting. Nortel will contact the responsible person in CN4 to try and get some early information.

RESULT: The document was **AGREED.**

N3-040635 **CR to 29.061, Gmb. Correction to the Result-Code AVP, Nortel Networks.**

CONTENT: The new error values should be assigned to Experimental-Result-Code instead of Result-Code. The messages have also been corrected accordingly.

DISCUSSION: Minor change to wording required.

Repeats information from RFC, suggest the use of the term 'is' as opposed to 'must be'.

Additional change to 17.8.1, change term error to result code.

Clauses affected are missing on the cover page.

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

⇓ **REVISED** ⇓

N3-040686 **CR to 29.061, Gmb. Correction to the Result-Code AVP, Nortel Networks.**

RESULT: The document was **AGREED**

N3-040636 **CR to 29.061, Gmb. General corrections and clarification on the use of RAR Nortel Networks.**

CONTENT: A necessary clarification to understand the command behaviour is added to indicate that after a RAR-RAA exchange, no AAR is needed, as oppose as indicated in the RAR description in Nasreq. Also editorial and other minor corrections have been included.

DISCUSSION: Nokia commented that we should also consider the proxy issue. The Diameter m bit and P-bit must set to 0 <referenced from NASREQ draft>. Addition of a note (and the P flag may be set).

Also, correct usage of word "an' required.

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

⇓ **REVISED** ⇓

N3-040687 **CR to 29.061, Gmb. General corrections and clarification on the use of RAR Nortel Networks.**

RESULT: The document was **AGREED**

10.7 WLAN – UMTS Interworking [WLAN]

No input to this agenda item.

10.8 Gx Interface

N3-040629 **CR to 29.210, Gx. Experimental Result Codes. Nortel Networks, Nokia.**

CONTENT: Introduced the missing experimental Result Codes for the Gx reference point.

DISCUSSION: Siemens had comments on the precise wording of the change.

Use result code as opposed to error.

Also normative text is missing.

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

⇓ REVISED ⇓

N3-040664 **CR to 29.210, Gx. Experimental Result Codes. Nortel Networks, Nokia.**

RESULT: The document was **AGREED.**

N3-040630 **CR to 29.210,Gx. Simultaneous charging rule provision and credit authorization Nortel Networks, Nokia.**

CONTENT: The CR introduces the necessary text to specify and clarify the simultaneous charging rule provision and credit authorization case.

DISCUSSION: Siemens proposed adding some clarifying text.

The CR needs to be viewed along with the rest of the text in the TS. Certain text is duplicated.

RESULT: The document was **REVISED to 0665.**

⇓ REVISED ⇓

N3-040665 **CR to 29.210, Gx. Simultaneous charging rule provision and credit authorization Nortel Networks, Nokia.**

RESULT: The document was **AGREED.**

N3-040631 **CR to 29.210, Gx. General and editorial corrections. Nortel Networks, Nokia**

CONTENT: This CR performs various editorial corrections, and removal of some editorial notes that are not longer applicable or have already been addressed

DISCUSSION: VOIDs should not be introduced in a draft specification. The editor will take care of re-organising the TS before it is presented for approval.

Siemens proposed a re-wording for the Gx messages clause (seen offline).

Can only add one set of filters to a partially defined rule. Problem if a charging rule is deleted, require to re-establish the filters.

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

⇓ REVISED ⇓

N3-040666 **CR to 29.210, Gx. General and editorial corrections. Nortel Networks, Nokia**

RESULT: The document was **AGREED.**

N3-040632 **CR to 29.210, Clarification on the use of DCC session. Nortel Networks.**

RESULT: The document was **WITHDRAWN.**

N3-040653 **CR to 29.210, Gx reorganisation of AVPs Nokia, Nortel**

CONTENT: Restructuring of Diameter AVPs clauses.

DISCUSSION: Some editorial modifications were proposed.

Avoid "voids".

RESULT: The document was **REVISED to 0668.**

⇓ REVISED ⇓

N3-040668 **CR to 29.210, Gx reorganisation of AVPs Nokia, Nortel**

RESULT: The document was **AGREED.**

N3-040654 **CR to 29.210, Gx Precedence AVP Nokia, Nortel.**

CONTENT: Precedence AVP defined and added to the charging rules.

DISCUSSION: Problem with priorities of multiple precedence's. Need to find a simple rule to explain this. Wording provided by Siemens offline.

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

⇓ **REVISED** ⇓

N3-040669 **CR to 29.210, Gx Precedence AVP Nokia, Nortel.**

RESULT: The document was **AGREED.**

N3-040655 **CR to 29.210, Gx Event Triggers Nokia, Nortel.**

CONTENT: Event trigger AVP defined and added to charging rule provision, textual description of the event trigger functionality.

DISCUSSION: This can be done in Rel-7. Proposed not to modify bullet 4 as it does not relate to this CR.

Also there are some editorial errors that need correcting.

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

⇓ **REVISED** ⇓

N3-040670 **CR to 29.210, Gx Event Triggers Nokia, Nortel.**

RESULT: The document was **AGREED.**

N3-040656 **CR to 29.210, Gx RAT type AVP Nokia, Nortel.**

CONTENT: RAT-Type AVP defined and added to the charging rule request.

DISCUSSION: Need to align on the terminology.

RESULT: The document was **REVISED to 0671.**

⇓ **REVISED** ⇓

N3-040671 **CR to 29.210, Gx RAT type AVP Nokia, Nortel.**

DISCUSSION: Suggested adding a reference to 29.060 to ensure alignment with the GTP. However Nokia stressed that this is very GPRS / 3GPP specific and may exclude some non 3GPP access mechanisms (WLAN).

RESULT: The document was **AGREED.**

N3-040657 **CR to 29.210, Gx SGSN Address AVP, Nokia.**

CONTENT: SGSN-Address AVP defined and added to the charging rule request.

DISCUSSION: Propose using the Diameter type. Others proposed re-using the GTP attributes. Vodafone and Nortel prefer using two separate AVPs. Nokia prefers using a single AVP.

RESULT: The document was **REVISED to 0694.**

⇓ **REVISED** ⇓

N3-040694 **CR to 29.210, Gx SGSN Address AVP, Nokia.**

RESULT: The document was **AGREED.**

N3-040658 **CR to 29.210, Gx Signalling Flag AVP, Nokia.**

CONTENT: Signalling-Flag AVP defined and added to the charging rule request.

DISCUSSION: Information relating to this CR contained in LS N3-040639.

Siemens had concerns with the wording, and proposed some better text.

Also a concern with the use of AVPs with no definition of the flags. Possible to use a numerated system for the signalling flag.

Nortel to check if the signalling PDP cdx is needed. To be examined offline.

RESULT: The document was **REVISED to 0672.**

⇓ **REVISED** ⇓

N3-040672 **CR to 29.210, Gx Signalling Flag AVP, Nokia.**

DISCUSSION: Correction of minor type error required.

Contradicting information for when the bearer usage AVP has already been supplied. Needs to be clarified.

RESULT: The document was **REVISED to 0689.**

⇓ **REVISED** ⇓

N3-040689 **CR to 29.210, Gx Signalling Flag AVP, Nokia.**

RESULT: The document was **AGREED.**

N3-040659 **CR to 29.210, Gx Charging Address AVPs, Nokia.**

CONTENT: Charging Address AVPs defined and added to charging rule provision for online and offline charging, textual description of the functionality.

DISCUSSION: Some improved wording and editorial comments were proposed to the contribution.

Siemens made several suggestions to improve the text. They were examined offline.

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

⇓ **REVISED** ⇓

N3-040673 **CR to 29.210, Gx Charging Address AVPs, Nokia.**

DISCUSSION: Agreed to add a note. Siemens had concerns with the text, it seemed not clear what is specified or unspecified.

RESULT: The document was **REVISED to 0692.**

⇓ **REVISED** ⇓

N3-040692 **CR to 29.210, Gx Charging Address AVPs, Nokia.**

RESULT: The document was **AGREED.**

N3-040660 **CR to 29.210, Gx Application Function Record Info AVPs, Nokia.**

CONTENT: AF-Charging-Identifier AVP and Flows AVP re-used from TS 29.209 (Gq) and added to charging rules.

DISCUSSION: Some minor modifications to the wording were proposed.

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

⇓ **REVISED** ⇓

N3-040674 **CR to 29.210, Gx Application Function Record Info AVPs, Nokia.**

DISCUSSION: Note: This CR is made on top of another table. The editor will take care when implementing the CRs.

RESULT: The document was **AGREED.**

N3-040661 **CR to 29.210, Gx TFT Packet Filter Information, Nokia.**

CONTENT: AVPs transporting TFT information defined and added to the charging rule request.

RESULT: The document was **AGREED.**

N3-040699 **TS 29.210 v 1.1.0, Nokia.**

CONTENT: To be provided by email before 15th October.

Nokia are asked to provide to the next CN3 meeting requesting a range of numbers from CN4. This will be handled early in the meeting and hopefully a response can be obtained from CN4 in the same week.

RESULT: The document to be provided by **e-mail.**

10.9 Rx Interface

N3-040637 **Rx discussion and first content for approval. Nortel Networks**

CONTENT: It is proposed to incorporate the text into TS 29.209, in a new clause added after the last.

DISCUSSION: There is considerable overlap with the Ericsson contribution.

Deleted: Siemens

RESULT: The document was **NOTED.**

N3-040649 **Comparison of the Rx interface and Gq interface, Siemens.**

CONTENT: This contribution aims to compare requirements for the Rx interface and the Gq interface. Furthermore, it considers an appropriate specification to implement the Rx interface, which should allow handling differences between those interfaces appropriately while making use of communalities.

The document makes the following conclusions:

1. Some differences in the requirements of the Rx interface compared to the Gq interface have been identified. These differences will need to be taken into account for the Rx protocol design.
2. A high-level list of contents for an Rx interface specification has been suggested.
3. The Rx specification is best placed in an own new TS (suggested number 29.211).

DISCUSSION: Certain dependencies to SA2.

AF charging ID and flow ID are needed according to SA2.

Binding mechanism to be defined in SA2???

Requirement for tokens in FBC?

In order to run pure FBC Rel-6, a token-less solution is required for Gx and Rx.

Token is used by GGSN if received from the UE (SBLC - FBC run in parallel).

Rx to be specified in a new TS??

Agreed to send a LS to SA2 [N3-040681]:

- *Is the definition of the Rel-6 binding mechanism the responsibility of CN3 or SA2*
- *If SA2 are to define the binding mechanism(s) for Rel-6, what are they??*

RESULT: The document was **REVISED to 0662.**

⇓ **REVISED** ⇓

N3-040662 **Comparison of the Rx interface and Gq interface, Siemens.**

RESULT: The document was **NOTED.**

N3-040681 **LS OUT to SA2 on Clarifications on the Rx interface, CN3.**

CONTENT: CN3 started the work on the Rx interface for FBC and seek guidance from SA2 on a couple of issues CN3 regards as important to progress the work.

DISCUSSION: If SA2 answer that the application function require the capability to address a CRF or PDF selectively we will required separate application IDs, and will also require a separate TS for the Rx interface.

RESULT: The document was **APPROVED.**

N3-040650 **Diameter protocol handling of a combined or separated Rx interface, Siemens.**

CONTENT: This contribution aims to discuss requirement arising by allowing that the Rx and the Gq interface are combined. Furthermore, it considers Diameter protocol mechanisms to implement those requirements.

The document concludes:

1. The AF needs to know and to control if a Diameter server hosting PDF and/or CRF performs SBLP and/or FBC.
2. Approach 4 is the most preferable solution for this requirement. The Gq and Rx interface and the combined Gq and Rx interface shall all be assigned separate Diameter application IDs.

DISCUSSION: Nortel believe that we should use the same application ID for all three cases (Gx, Rx, and Rx Gx combined.

Nokia clarified that one physical interface may cope with several application IDs.

CN4 have a mechanism based on capabilities. This may be used for Rel-6. Siemens suggested using a similar mechanism.

Nortel requested sending a LS to SA2 on whether the application function needs to know what is behind a request or not. Is there a requirement for dynamic server discovery or will it be static.

Siemens and Ericsson preferred to take a decision at this meeting.

Arguments to separate application IDs

1) Use the diameter routing concept

2) Mandatory AVPs.

Looking into the Stage 2 it was clarified that there is a requirement to be able to use the interfaces independently.

RESULT: The document was **NOTED.**

N3-040652 TS , Policy and Charging Control over Rx interface, Ericsson.

CONTENT: The present document provides a draft TS for the stage 3 specification of the Rx interface. The Rx interface is used for policy control and charging rules set-up information exchange between the Charging Rules Function (CRF) and the Application Function (AF). The functional requirements and the stage 2 specifications of the Rx interface are contained in 3GPP TS 23.125 [2].

The Rx and Gq need to be separate Applications and have distinct Application IDs. There is a problem to reuse the Diameter application for Gq for the purpose of Rx. E.g. since the authorization token should not be used on Rx, it might be necessary for a new application. According to the Diameter Base Protocol (RFC 3588) declaration w.r.t. extending Diameter applications:

*Should a new Diameter usage scenario find itself unable to fit within an existing application without requiring major changes to the specification, it may be desirable to create a new Diameter application. **Major changes** to an application **include**:*

*- **Adding new AVPs** to the command, **which have the "M" bit set**.*

Since the Authorization Token has the "M" bit set on Gq, it will be a problem to omit it on Rx, within the same application.

Because Rx needs a new Diameter Application and other reasons (such as e.g. that stage 2 has separate TS, the need to have future-proof specifications, easier to write clean text for the TS's etc.), it is proposed to create a separate TS for the Rx interface.

DISCUSSION: The TS was examined online and some comments provided to the rapporteur relating to the structure and general aspects of the document.

RESULT: The document was **REVISED to 0682.**

⇓ **REVISED** ⇓

N3-040682 TS skeleton for Rx interface, Ericsson.

DISCUSSION: Need to use stage 2 terms and not invent new terms. Use flow based charging. Suggest revising the document to avoid certain issues. New title will be "flow based charging control over Rx reference point".

The contribution adds elements of stage 2, that are not required in the skeleton.

RESULT: The document was **REVISED to 0691.**

⇓ **REVISED** ⇓

N3-040691 **TS skeleton for Rx interface, Ericsson.**

DISCUSSION: Will be provided to CN3 email exploder by 15th October. Will be used as the basis of email discussion.

RESULT: The document was **discussion on-email.**

N3-040683 **FBC Call Flows, Ericsson, Ericsson.**

DISCUSSION: Suggestion to separate the GPRS and IMS call flows in different sections. We could add detailed flows for IMS in an annex (if required) and have the general flows in the main body text.

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

⇓ **REVISED** ⇓

N3-040701 **FBC Call Flows, Ericsson, Ericsson.**

DISCUSSION: Will be provided to CN3 email exploder by 15th October. Will be used as the basis of email discussion.

RESULT: The document to be provided by **e-mail.**

N3-040684 **AVPs, Messages and Procedures for Rx interface, Ericsson, Nortel.**

CONTENT: The present document provides Procedures, AVPs and Messages for Rx. It may be part of a draft TS for the stage 3 specification of the Rx interface. The Rx interface is used for policy control and charging rules set-up information exchange between the Charging Rules Function (CRF) and the Application Function (AF). The functional requirements and the stage 2 specifications of the Rx interface are contained in 3GPP TS 23.125.

DISCUSSION: Various comments were made, and the modifications were captured by the editor for the revised version.

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

⇓ **REVISED** ⇓

N3-040693 **AVPs, Messages and Procedures for Rx interface, Ericsson, Nortel.**

DISCUSSION: Will be provided to CN3 email exploder by 15th October. Will be used as the basis of email discussion.

RESULT: The document was **discussion on-email.**

N3-040690 **CR to 29.209, Generic AVPs, Ericsson.**

RESULT: The document was **POSTPONED.**

10.10 Technical Enhancements & Improvements [TEI6]

No input to this agenda item.

10.11 Other Rel-6 Work Items

No input to this agenda item.

11 Release 7

No input to this agenda item.

12 Joint sessions

No input to this agenda item.

13 Work Organization

13.1 Work Plan Review

N3-040628 **3GPP WorkPlan, MCC.**

RESULT: The document was **NOTED.**

13.2 Specification Review

N3-040627 **Status of CN3's specifications, MCC.**

DISCUSSION: The following changes to Rapporteurs:

Rapporteur for 24.022 is still open.

RESULT: The document was **NOTED.**

13.3 Next meetings, allocation of hosts

N3-040667 **Meeting Dates for 2004 / 2005, MCC.**

RESULT: The document was **NOTED.**

Nov 2004				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN3#34	WG	15 - 19 Nov 2004	Seoul	KR
Dec 2004				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN#26	OR	8 - 10 Dec 2004	Athens	GR
Feb 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN3#35	WG	14 - 18 Feb 2005	Sydney	AU
Mar 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN#27	OR	9 - 11 Mar 2005	Tokyo	JP
Apr 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN3#36	WG	25 - 30 Apr 2005	Cancun	MX
Jun 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN#28	OR	1 - 3 Jun 2005	Quebec	CA
Aug 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN3#37	WG	29 Aug - 2 Sep 2005	TBD	
Sep 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN#29	OR	21 - 23 Sep 2005	Tallinn	EU
Oct 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN3#38	WG	31 Oct - 4 Nov 2005	EU	EU
Nov 2005				
TITLE	**TYPE**	**DATES**	**LOCATION**	**CTRY**
3GPPCN#30	OR	30 Nov - 2 Dec 2005	Malta	MT

14 Summary of results

14.1 Work Items

No WIDs were AGREED by CN3, to be presented to the next CN Plenary for APPROVAL.

14.2 Liaison Statements

The following LSs were approved by CN3, and will be presented to the next CN Plenary for INFO.

Tdoc	Title	LS To	LS Cc	Attachment
N3-040681	Clarifications on the Rx interface	SA2	-	-

14.3 TRs / TSs

No TSs or TRs were AGREED by CN3, to be presented to the next CN Plenary.

14.4 Change Requests

The following CRs were AGREED by CN3, and will be presented to the next CN Plenary for APPROVAL.

Tdoc	Title	Spec	CR	Rev	Cat	Rel	C_Ver	Work Item
N3-040687	Gmb. General corrections and clarification on the use of RAR	29.061	131	1	F	Rel-6		MBMS
N3-040686	Gmb. Correction to the Result-Code AVP	29.061	130	1	F	Rel-6		MBMS
N3-040685	Gmb. Table with reused AVPs	29.061	128	1	F	Rel-6		MBMS
N3-040634	Gmb. New AVP to indicate Multicast or Broadcast service	29.061	129		F	Rel-6		MBMS
N3-040702	Allowing the use of Application identifier for IMS	29.208	076	2	C	Rel-6		QoS1
N3-040700	Clarification on Mapping Table 7.1.1.1	29.208	075	2	F	Rel-6		QoS1
N3-040676	Correcting Mapping Table for early media handling	29.208	074	1	F	Rel-6		QoS1
N3-040680	Smaller corrections to avoid misinterpretations	29.209	003	1	F	Rel-6	0.0.1	QoS1
N3-040679	Flow grouping AVPs in modified service information	29.209	002	1	F	Rel-6	0.0.1	QoS1
N3-040678	semantics of updated Flow-Description AVP(s)	29.209	001	1	F	Rel-6	0.0.1	QoS1

14.5 Other

None.

15 Any other business

N3-040698 DAB Farewell in CN3, MCC.

DISCUSSION: CN3 kindly thanked their old Secretary who now is moving on to the quiet life in SA2 with some kind words, and a few bottles of Chateau Margaux.

Their old secretary thanked them, and provided a brief history of CN3 as contained in this present document.

In summary CN3 has been a pleasure to work with and will be sorely missed by the afore mentioned old secretary.

RESULT: **The document was NOTED.**

16 Close of meeting

The CN3 Chairman closed the meeting on Thursday 7th at 13:00, and thanked the hosts for the excellent meeting location and arrangements.

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

Annex A: List of CN3 Meeting Participants

Member of 3GPP (ATIS)					
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Member of 3GPP (ETSI)					
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11 PARTICIPANTS

Annex B: List of documents

Tdoc	Ag.	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040617	2	Agenda	Draft agenda for CN3#33bis	CN3 Chair							Approved
N3-040618	3	DAD	Allocation of documents to agenda items (at deadline)	CN3 Chair							Noted
N3-040619	3	DAD	Allocation of documents to agenda items (end of Day1)	CN3 Chair							Noted
N3-040620	3	DAD	Allocation of documents to agenda items (end of Day2)	CN3 Chair							Noted
N3-040621	3	DAD	Allocation of documents to agenda items (end of Day3)	CN3 Chair							Noted
N3-040622	3	DAD	Allocation of documents to agenda items (end of Day4)	CN3 Chair							Noted
N3-040623	3	DAD	Allocation of documents to agenda items (start of Day1)	CN3 Chair							Noted
N3-040624	4.1	Report	Draft Report from CN3#33	MCC							Revised in N3-040663
N3-040625	4.2	Report	Brief notice from CN#25 relevant for CN3	CN3 Chair							Noted
N3-040626	4.2	Report	Email with Highlights of CN#25/SA#25	CN Chair							Noted
N3-040627	13.2	List	Status of CN3 specifications following CN#25	MCC							Noted
N3-040628	13.1	WorkPlan	Latest Version of 3GPP Workplan	MCC							Noted
N3-040629	10.8	[CR]	Gx. Experimental Result Codes.	Nortel Networks, Nokia							Revised in N3-040664
N3-040630	10.8	[CR]	Gx. Simultaneous charging rule provision and credit authorization	Nortel Networks, Nokia							Revised in N3-040665
N3-040631	10.8	[CR]	Gx. General and editorial corrections.	Nortel Networks, Nokia							Revised in N3-040666
N3-040632	10.8	[CR]	Clarification on the use of DCC session.	Nortel Networks							Withdrawn
N3-040633	10.6	CR	Gmb. Table with reused AVPs	Nortel Networks	MBMS	29.061	128	0	F	Rel-6	Revised in N3-040685
N3-040634	10.6	CR	Gmb. New AVP to indicate Multicast or Broadcast service	Nortel Networks	MBMS	29.061	129	0	F	Rel-6	Agreed
N3-040635	10.6	CR	Gmb. Correction to the Result-Code AVP	Nortel Networks	MBMS	29.061	130	0	F	Rel-6	Revised in N3-040686
N3-040636	10.6	CR	Gmb. General corrections and clarification on the	Nortel Networks	MBMS	29.061	131	0	F	Rel-6	Revised in N3-040687

Tdoc	Ag.	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
			use of RAR								
N3-040637	10.9	Discussion	Rx discussion and first content for approval.	Nortel Networks							Noted
N3-040638		LS in	Reply LS on IP-CAN transport for additional IMS capabilities	TSG SA WG2							Postponed to next meeting
N3-040639		LS in	Network control of SBLP PDP Context establishment	TSG SA WG2							Noted
N3-040640		LS in	LS on Supporting MBMS Charging Mechanism	TSG SA WG2							Noted
N3-040641		LS in	Re. LS on the Outcome of Harmonization of AMR Configurations	TSG SA WG4							Postponed to next meeting
N3-040642	10.4	CR	Correcting Mapping Table for early media handling	Siemens	QoS1	29.208	074	0	F	Rel-6	Revised in N3-040676
N3-040643	10.4	CR	Clarification on Mapping Table 7.1.1.1	Siemens	QoS1	29.208	075	0	F	Rel-6	Revised in N3-040677
N3-040644	10.4	CR	semantics of updated Flow-Description AVP(s)	Siemens	QoS1	29.209	001	0	F	Rel-6	Revised in N3-040678
N3-040645	10.4	CR	Flow grouping AVPs in modified service information	Siemens	QoS1	29.209	002	0	F	Rel-6	Revised in N3-040679
N3-040646	10.4	CR	Smaller corrections to avoid misinterpretations	Siemens	QoS1	29.209	003	0	F	Rel-6	Revised in N3-040680
N3-040647	10.4	CR	Timer for bearer modification indication	Siemens	QoS1	29.209	004	0	F	Rel-6	Withdrawn
N3-040648	10.4	CR	Resource reservation at PDF	Siemens	QoS1	29.209	005	0	F	Rel-6	Postponed to next CN3 meeting
N3-040649	10.9	Discussion	Comparison of the Rx interface and Gq interface	Siemens							Revised in N3-040662
N3-040650	10.9	Discussion	Diameter protocol handling of a combined or separated Rx interface	Siemens							Noted
N3-040651	10.1	-	Additions/corrections to TS29.162	Ericsson							Revised in N3-040696
N3-040652	10.9	TS	TS , Policy and Charging Control over Rx interface	Ericsson							Revised in N3-040682
N3-040653	10.8	-	Gx reorganisation of AVPs	Nokia, Nortel							Revised in N3-040668
N3-040654	10.8	-	Gx Precedence AVP	Nokia, Nortel							Revised in N3-040669
N3-040655	10.8	-	Gx Event Triggers	Nokia, Nortel							Revised in N3-040670
N3-040656	10.8	-	Gx RAT type AVP	Nokia, Nortel							Revised in N3-040671
N3-040657	10.8	-	Gx SGSN Address AVP	Nokia							Revised in N3-040694
N3-040658	10.8	-	Gx Signalling Flag AVP	Nokia							Revised in N3-040672
N3-040659	10.8	-	Gx Charging Address AVPs	Nokia							Revised in N3-040673
N3-040660	10.8	-	Gx Application Function Record Info AVPs	Nokia							Revised in N3-040674

Tdoc	Ag.	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040661	10.8	-	Gx TFT Packet Filter Information	Nokia							Agreed
N3-040662	10.9	Discussion	Comparison of the Rx interface and Gq interface	Siemens							Noted
N3-040663	4.1	Report	Draft Report from CN3#33	MCC							Approved
N3-040664	10.8	[CR]	Gx. Experimental Result Codes.	Nortel Networks, Nokia							Agreed
N3-040665	10.8	[CR]	Gx. Simultaneous charging rule provision and credit authorization	Nortel Networks, Nokia							Agreed
N3-040666	10.8	[CR]	Gx. General and editorial corrections.	Nortel Networks, Nokia							Agreed
N3-040667	13.3	Calendar	Meeting Calendar for 2004/2005	MCC							Noted
N3-040668	10.8	-	Gx reorganisation of AVPs	Nokia, Nortel							Agreed
N3-040669	10.8	-	Gx Precedence AVP	Nokia, Nortel							Agreed
N3-040670	10.8	-	Gx Event Triggers	Nokia, Nortel							Agreed
N3-040671	10.8	-	Gx RAT type AVP	Nokia, Nortel							Agreed
N3-040672	10.8	-	Gx Signalling Flag AVP	Nokia							Revised in N3-040689
N3-040673	10.8	-	Gx Charging Address AVPs	Nokia							Revised in N3-040692
N3-040674	10.8	-	Gx Application Function Record Info AVPs	Nokia							Agreed
N3-040675	10.4	CR	Allowing the use of Application identifier for IMS	Nokia	QoS1	29.208	076	0	C	Rel-6	Revised in N3-040688
N3-040676	10.4	CR	Correcting Mapping Table for early media handling	Siemens	QoS1	29.208	074	1	F	Rel-6	Agreed
N3-040677	10.4	CR	Clarification on Mapping Table 7.1.1.1	Siemens	QoS1	29.208	075	1	F	Rel-6	Revised in N3-040700
N3-040678	10.4	CR	semantics of updated Flow-Description AVP(s)	Siemens	QoS1	29.209	001	1	F	Rel-6	Agreed
N3-040679	10.4	CR	Flow grouping AVPs in modified service information	Siemens	QoS1	29.209	002	1	F	Rel-6	Agreed
N3-040680	10.4	CR	Smaller corrections to avoid misinterpretations	Siemens	QoS1	29.209	003	1	F	Rel-6	Agreed
N3-040681	10.9	LS out	Clarifications on the Rx interface	CN3							Approved
N3-040682	10.9	TS	TS skeleton for the Rx interface	Ericsson							Revised in N3-040691
N3-040683	10.9	TS	FBC Call clows	Ericsson							Revised in N3-040701
N3-040684	10.9	TS	AVPs, Messages and Procedures for Rx interface	Ericsson, Nortel							Revised in N3-040693
N3-040685	10.6	CR	Gmb. Table with reused AVPs	Nortel Networks	MBMS	29.061	128	1	F	Rel-6	Agreed
N3-040686	10.6	CR	Gmb. Correction to the Result-Code AVP	Nortel Networks	MBMS	29.061	130	1	F	Rel-6	Agreed

Tdoc	Ag.	Type	Title	Source	WI	Spec	CR #	Rev	Cat	Rel	Status
N3-040687	10.6	CR	Gmb. General corrections and clarification on the use of RAR	Nortel Networks	MBMS	29.061	131	1	F	Rel-6	Agreed
N3-040688	10.4	CR	Allowing the use of Application identifier for IMS	Nokia	QoS1	29.208	076	1	C	Rel-6	Revised in N3-040702
N3-040689	10.8	-	Gx Signalling Flag AVP	Nokia							Agreed
N3-040690	10.9	CR	Generic AVPs	Ericsson	IMS2	29.209	006	0	F	Rel-6	Postponed
N3-040691	10.9	TS	TS skeleton for the Rx interface	Ericsson							email
N3-040692	10.8	-	Gx Charging Address AVPs	Nokia							Agreed
N3-040693	10.9	TS	AVPs, Messages and Procedures for Rx interface	Ericsson, Nortel							email
N3-040694	10.8	-	Gx SGSN Address AVP	Nokia							Agreed
N3-040695	10.1	[CR]	Editorial corrections to TS29.162	Ericsson							Revised in N3-040697
N3-040696	10.1	-	Additions/corrections to TS29.162	Ericsson							Revised in N3-040703
N3-040697	10.1	[CR]	Editorial corrections to TS29.162	Ericsson							Revised in N3-04
N3-040698	15	Discussion	DAB says a fond farewell to CN3	DAB							Noted
N3-040699	10.8	TS	TS 29.210 v 1.1.0	Nokia							email
N3-040700	10.4	CR	Clarification on Mapping Table 7.1.1.1	Siemens	QoS1	29.208	075	2	F	Rel-6	Agreed
N3-040701	10.9	TS	FBC Call clows	Ericsson							email
N3-040702	10.4	CR	Allowing the use of Application identifier for IMS	Nokia	QoS1	29.208	076	2	C	Rel-6	Agreed
N3-040703	10.1	-	Additions/corrections to TS29.162	Ericsson							Revised in N3-040705
N3-040704	14	[CR]	Editorial Corrections to TS29.162, Ericsson.	Ericsson							Agreed
N3-040705	10.1	-	Additions/corrections to TS29.162	Ericsson							Agreed
N3-040706	10.1	TS	TS29.162 v1.2.0	Ericsson							email

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History:¶
Document History ... [1]

History:

Document History	
25th Aug 2004	DRAFT v1.0.0 dispatched by e-mail exploder to the CN3 list. Comments, if any, to be addressed to: David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 e-mail: david.boswarthick@ETSI.org A deadline of 2 weeks was given to the CN3 delegates for e-mail comments on the draft report. **Comments back by 7th September 2004**
Xxx	Updated DRAFT v2.0.0 placed to the server
Xxx	N3-040 [v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#31 meeting. Updated to N3-040xyz and placed to the server as v3.0.0.