



Third Generation Partnership Project

DRAFT MEETING REPORT v1.0.0

3GPP TSG CN WG 3 Meeting #21

Sophia Antipolis, France
28th Jan - 1st Feb. 2002.



Hosted by



Chairman: Norbert Klehn, Siemens AG. norbert.klehn@icn.siemens.de
Vice Chairman: None.
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1 Opening of the Meeting

The 21st CN3 meeting took place from 28th Jan - 1st Feb. 2002 in Sophia Antipolis, France.

Mr David Boswarthick welcomed the CN3 delegates to ETSI headquarters on behalf of the host, and explained the logistical details for the rest of the week.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 28th. He set the objectives for the meeting as follows:

?? **Move forward with work on Rel-5**

?? **Prepare CN3's four new Rel-5 specifications for presentation to CN#15 meeting as v1.0.0. [TS 29.162, TS 29.163, TS 29.207, TS 29.208].**

2 Approval of the Agenda and Registration of documents

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

ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_21_Sophia/

N3-020001: CN3#21 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#21 Meeting.

DISCUSSION: Norbert introduced the agenda and outlined the schedule of the meeting for the rest of the week. There was one Joint Sessions during the week:-

Tuesday 29th Jan 14:00 - Joint session with CN1 + any other interested WGs on 24.228

RESULT: The Agenda was **APPROVED**.

N3-020010: Allocation of documents to Agenda items for CN3#21 (before meeting). Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items at the end of the week before the meeting..

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

N3-020011: Allocation of documents to Agenda items for CN3#21 (Start Day 1). Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items at the start of day1.

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

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

N3-020012: Allocation of documents to Agenda items for CN3#21 (Start Day 2).

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

N3-020013: Allocation of documents to Agenda items for CN3#21 (Start Day 3).

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

N3-020014: Allocation of documents to Agenda items for CN3#21 (Start Day 5).

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

3 Reports

3.1 CN3#20 Meeting Report, (Cancun)

N3-020002: **CN3#20 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#20 held in Cancun, Mexico.

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 and the report placed to the meeting server.**

Review of action items from CN3#20:

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_18_02	All Rapporteurs	Update their specifications following the GERAN proposal on terminology and provide CRs	before CN3#19	Partially complete, some open issues	DONE
N3_19_01	All	Contributing companies are to consider the impact of additional CODECs in the fixed network on CN3s work on interworking	at CN3#20		DONE
N3_20_01	Thomas Belling	Provide the corresponding change to TS 23.205 to the next CN4 meeting	next CN4	NOT REQUIRED	DONE
N3_20_02	DAB	Store N3-010606 to the DRAFT SPEC area on the 3GPP server	ASAP		DONE
N3_20_03	Celine Bonnel	Distribute annex B to 29.207 on the CN3 email exploder	ASAP		DONE
N3_20_04	DAB	Store N3-010614 to the DRAFT SPEC area on the 3GPP server	ASAP		DONE
N3_20_05	DAB	Store N3-010612 to the DRAFT SPEC area on the 3GPP server	ASAP		DONE
N3_20_06	DAB	Check usage of term GSM in section 2 of the TS template.	by N3#21		OPEN
N3_20_07	DAB	Examine line draw error in 28.020 clause 11.3	by N3#21		DONE
N3_20_08	DAB	Provide GERAN updates to 43.010 43.045 & 43.046	by NP#15		DONE
N3_20_09	Thomas Belling	Provide this LS [N3-010604] by email to CN3 email exploder for comments and approval	ASAP		DONE

3.2 Reports from Last CN Meeting

N3-020003: **NP#14 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report from the NP#14 meeting.

RESULT: The document was **NOTED**

N3-020005: **Brief notice from CN#14 plenary to CN3.** Presented by CN3 Chair.

CONTENT: Contains the e-mail advice sent to CN3 by the CN3 chair containing details of the major decisions taken at NP#14.

RESULT: The document was **NOTED**

N3-020006 **CN Slide presentation to SA#14.** Presented by David Boswarthick, MCC.

CONTENT: Contains the slides presented by the CN Chairman to SA#14 meeting.

RESULT: The document was **NOTED**

3.3 Reports from Other Groups

N3-020004: SA#14 Draft Meeting Report. Presented by David Boswarthick, MCC.

RESULT: The document was **NOTED**.

4 IPR Disclosures

The Chairman reminded delegates of the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were invited:

- ?? to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups
 - ?? to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms
-

5 Documents for Immediate Attention

No input to this agenda item.

6 Liaison Statements

N3-020035: LS IN from S3 SWGLi on "Liaison Statement on S3 LI that Lawful Intercept" [S3LI01-107].

CONTENT: LS forwarded to ALL CN WGs by CN Plenary.

In the original LS SA3 Lawful Intercept group identify a possible problem with the standardization of Lawful intercept requirements and timescales.

DISCUSSION: No impact on CN3 work or specifications.

RESULT: The document was **NOTED**.

N3-020036: LS IN from SA4 on "SIP Signalling and Codec Issues" [S4 (01)0644].

CONTENT: In response to a LS from CN1, SA4 provides the requested information on SIP signaling and coding issues, as well as MIME encoding.

DISCUSSION: No impact on CN3 work or specifications

RESULT: The document was **NOTED**.

N3-020009: LS IN from SA5 on "Impacts of Subscriber and Equipment Trace" [S5-020013].

CONTENT: SA5 is currently specifying Subscriber and Equipment Trace for Release 5. The WID for Trace on a feature level was approved in TSG-SA #14.

To be able to update the WID with references to all related WIs in other 3GPP WGs, SA5 kindly asks all WGs to identify their own WIs, which would be affected by Trace.

DISCUSSION: The document was postponed to allow delegates time to examine the document.

RESULT: The document was **POSTPONED until CN3#22**.

N3-020071: LS IN from RAN3 on "data rates for CS data services in UTRAN" [R3-020227].

CONTENT: In this LS, RAN3 respond to a LS from GERAN1 on CS data services, (CN3 are copied for information).

DISCUSSION: CN3 have already indicated that they see some restrictions setting up the lu UP for CS data services. However RAN3 do not see such restrictions.

CN3 will await the decision by GERAN1 on this issue.

RESULT: The document was **NOTED**.

N3-020072: LS IN from SA2 on "Prefix allocation for IPv6 stateless address autoconfiguration" [S2-020326].

CONTENT: SA2 has agreed that a unique IPv6 prefix shall be allocated to every primary PDP context when using the IPv6 stateless address autoconfiguration procedure. Note also that these changes do not affect the SGSN.

SA2 asks various groups to consider these changes in their work and investigate possible impacts on their respective specifications.

DISCUSSION: Only the GPRS specs may be affected.

[ACTION N3_21_01] - Johanna Wild [Motorola] to examine the impacts of IPv6 auto configuration on 29.061 & 27.060.

The issue is postponed to CN#22, discussions will be held on the email exploder.

RESULT: The document was **NOTED**.

N3-020081: LS IN from SA4 on "addition of the H.324 M codec to TS 26.103" [S4-020005].

CONTENT: In response to the LS from CN3, SA4 will include the 3G-324.M codec in TS 26.103. It is expected that this will be done at the next SA4 meeting February 18-22.

RESULT: The document was **NOTED**

N3-020089: LS IN from SA5 on "IMS Charging ID (ICID) is provided to access network" [S5-020048].

CONTENT: This LS was sent to CN1, but they believe it is more relevant to CN3.

SA5 have identified an operator requirement that it should be possible to identify access network CDRs as belonging to an IMS session by only looking at the contents of these access network CDRs. Additionally, it is required to identify those access network CDRs that are related to IMS sessions as described above, that belong to the very same IMS session.

It was suggested that these requirements could be met in a simple way by sending the ICID generated by the first node in the SIP signalling path (i.e. the P-CSCF) back to the access network gateway to the IMS. In GPRS, this access network gateway is the GGSN. As SA5 understand, in Release 5, GPRS is the only specified UMTS access network to the IMS.

SA5 kindly ask SA2 and CN1 to assure that the ICID is passed from the P-CSCF to the GGSN. From the information that is available to SA5 on the message flows between GGSN and P-CSCF, one possible way to accomplish this requirement is via the "Go" interface. The ICID could be included as an information element in the messages exchanged between the GGSN and the P-CSCF for the purpose of conveying the GPRS Charging ID and GGSN Address to the IMS.

DISCUSSION: Ralitsa Gateva [Nokia] checked with the Nokia SA5 / SA2 delegates, and it seems that SA5 do not agree with the SA2 decision on charging guidelines. Ralitsa proposed sending a LS to both groups to ask for guidance.

Thomas Belling [Siemens] added that the decision should be made between SA2 and SA5 and CN3 will act only on the outcome of their decision.

The issue is postponed until CN3 receive guidance on this issue from SA2 and SA5.

RESULT: The document was **NOTED**

NOTE: LSs moved to other Agenda Items

- N3-020034: LS IN from SA4 on "codecs used in IP networks" [S4-010687] >>> MOVED TO 9.1
- N3-020037: LS IN from CN1 on " Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only)" [N1-012050]. >>> MOVED TO 9.1
- N3-020074: LS IN from SA2 on " Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only)" [S2-020275]. >>> [MOVED TO 9.1](#)
- N3-020073: [LS IN from SA2 on "requirements for Go interface"](#). >>> MOVED TO 9.3.1
- N3-020082: LS IN from SA4 on "Mapping of SDP parameters in UMTS QoS parameter" [S4-020006]. >>> [MOVED TO 9.3.2](#)

7 Release 99 and earlier:

NOTE: *R99 and earlier releases have been Functionally Frozen.*

Only CAT F (essential correction) and CAT A (corresponds to a correction in an earlier release) CRs are allowed for these Releases. The subcategories for CAT F CRs should be considered when agreeing essential CRs.

N3-020050: **CR to 27.001 " Mobile terminated call with single numbering scheme".**

DISCUSSION: This needs some checking ETR 018 (interworking with IDSN networks),

RESULT: The document was **POSTPONED until CN3#22**

N3-020051: **CR to 29.007 " Mobile terminated call with single numbering scheme ".**

DISCUSSION: This needs some checking ETR 018 (interworking with IDSN networks),

RESULT: The document was **POSTPONED until CN3#22.**

N3-020075: **CRA031 to 09.61 v6.6.0 "Change of associated attribute for 3GPP-NSAPI ".**
Presented by David Sanders of Vodafone.

CONTENT: Contains (**CAT F**) CR that " Corrects an incorrectly specified attribute for the 3GPP Vendor specific sub-attribute 3GPP-NSAPI.

RESULT: The document was **AGREED.**

N3-020076: **CRA032 to 09.61 v7.5.0 "Change of associated attribute for 3GPP-NSAPI ".**
Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding (**CAT A**) CR that "Changes the associated attribute for 3GPP-NSAPI from Access-Request STOP to Accounting-Request STOP ".

RESULT: The document was **AGREED.**

N3-020077: **CR037 to 29.061 v3.8.0 "Change of associated attribute for 3GPP-NSAPI ".**
Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding (**CAT A**) CR. Changes the associated attribute for 3GPP-NSAPI from Access-Request STOP to Accounting-Request STOP

RESULT: The document was **AGREED.**

N3-020078: **CR038 to 29.061 v4.3.0 "Change of associated attribute for 3GPP-NSAPI ".**
Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding (**CAT A**) CR. Changes the associated attribute for 3GPP-NSAPI from Access-Request STOP to Accounting-Request STOP

RESULT: The document was **AGREED.**

N3-020079: **CR039 to 29.061 v5.0.0 "Change of associated attribute for 3GPP-NSAPI ".**
Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding (**CAT A**) CR. Changes the associated attribute for 3GPP-NSAPI from Access-Request STOP to Accounting-Request STOP

RESULT: The document was **AGREED.**

8 Release 4:

NOTE: *Release 4 has been Functionally Frozen.*

Only CAT F (essential correction) and CAT A (corresponds to a correction in an earlier release) CRs are allowed for these Releases. The subcategories for CAT F CRs should be considered when agreeing essential CRs.

- N3-020039:** **CR073 to 27.001 v4.6.0 " Negotiation of parameter values for facsimile "**.
Presented by Norbert Klehn of Siemens.
- CONTENT:** Contains **(CAT F)** "Fax NT has been deleted in GSM since Rel-4. In GSM exists only Fax T and in UMTS exists only Fax NT. Therefore, a negotiation of the CE-parameter has to be forbidden. Further, 27.001 is inconsistent concerning the negotiation from a dual service to a single service. This is requested. So, text that forbids this, has to be deleted."
- DISCUSSION:** Change the term "Any parameter" to "Mobile specific parameters"
- RESULT:** The document was **REVISED to N3-020085**.
- ? **REVISED?**
- N3-020085:** **CR073 Rev1 to 27.001 v4.6.0 " Negotiation of parameter values for facsimile "**.
Presented by Norbert Klehn of Siemens.
- RESULT:** The document was **AGREED**.
- N3-020040:** **CR074 to 27.001 v5.0.0 " Negotiation of parameter values for facsimile "**.
Presented by Norbert Klehn of Siemens.
- CONTENT:** Contains the corresponding **(CAT A)** CR.
- RESULT:** The document was **REVISED to N3-020086**.
- ? **REVISED?**
- N3-020086:** **CR074 Rev 1 to 27.001 v5.0.0 "Negotiation of parameter values for facsimile"**.
Presented by Norbert Klehn of Siemens.
- RESULT:** The document was **AGREED**.
- N3-020061:** **CR0006 to 29.414 v4.3.0 " Update Reference to I.363.2"**. by Thomas Belling of Siemens.
- CONTENT:** Contains **(CAT F)** CR that " updates references to ITU-T I.363.2"
- RESULT:** The document was **AGREED**.

9 Release 5:

9.1 Interworking between IM Subsystems with IP [IMS-CCR-IWIP]

[CN3 consider their work to this Work Item as 30% Complete](#)

N3-020034: LS IN from SA4 on "codecs used in IP networks" [S4-010687].

CONTENT: In response to a LS from SA2, SA4 informs SA2 and CN3 of the following:-

The H323 has been used for some years and the most frequent codecs that are being used are :

?? For narrowband speech : G.723.1 (optional), G.729 (optional) & G.711 (mandatory)

?? For video : H.261 (mandatory) & H.263 (optional)

SIP is more recent and there are less applications at the moment. This standard defines a C-plane protocol and has not mandated codecs.

The SIP compatible MGW either available or announced include the same speech codecs as H.323. Regarding the video codecs H.263 and MPEG4 are expected to be used.

SA4 reminds that tandeming of codecs for both speech and video is very likely to decrease the QoS due to additional delay and distortions and should be avoided as much as possible.

3GPP codecs which will be used with conversational services TS 26.235 are:

?? For narrowband speech: AMR (mandatory), & GSM EFR (on request of GERAN, tbc)

?? For wideband speech: AMR-WB (mandatory)

?? For video: H.263 profile 0 level 10 (mandatory), MPEG4 visual sp @ level 0 (optional) & H.263 profile 3 level 10 (optional)

The codec standards selected by 3GPP should become more and more popular in SIP networks especially with the increasing number of 3G users.

DISCUSSION: Changes will be required to TS 29.162 [N3-020094]

RESULT: The document was **NOTED**

N3-020094: CR to 29.162 on Conversational Codecs usage included in TS 29.162. Presented by Thomas Belling of Siemens.

CONTENT: Includes information provided by SA4 on CODECS. (added as an informative Annex B).

DISCUSSION: Some minor type errors in this contribution will be corrected by the rapporteur of 29.162.

RESULT: The document was **AGREED**

N3-020037: LS IN from CN1 on " Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only)" [N1-012050].

CONTENT: In this LS CN1 ask TSG SA2 asked to provide an architectural solution on the issue of Interworking IPv4 and IPv6.

DISCUSSION: Response from SA2 in N3-020074 (see below).

SA2 respond that we should await their work on interworking before progressing the work in CN3. This does not prevent CN3 from continuing other work on this WID.

David Sanders [Vodafone] asked if we can do SIP-SIP interworking together with IPv4 - IPv6 interworking. Thomas Belling suggested that the IPv4-IPv6 interworking may be covered in 29.163 (once SA2 have completed their investigations).

RESULT: The document was **NOTED**

- N3-020074:** **LS IN from SA2 on " Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only)" [S2-020275].**
- CONTENT:** At SA2#22 several contributions have been presented bringing different solutions to the meeting. SA2 agrees that all IPv6 / IPv4 interworking solutions presented either at SA2#22 or in CN1 and CN3 (liased in N1-012050) have architectural implications. Thus, CN1 and CN3 are kindly asked to give this activity a lower priority until the architectural aspects are finalised by SA2.
- SA2 will inform CN1 & CN3 Working groups as soon as an architecture work has been finalized.
- RESULT:** The document was **NOTED**
- N3-020055:** **[CR] to TS 29.162 Update of Reference Architecture.** Presented by Thomas Belling
- CONTENT:** SA2 has updated the IMS reference points in the network architecture specification TS 23.002. A new Mb reference point to lpv6 network services is introduced:
- "Via the Mb reference point IPv6 network services are accessed. These IPv6 network services are used for user data transport. Note, that GPRS provides IPv6 network services to the UE, i.e. the GPRS Gi reference point and the IMS Mb reference point may be the same."
- This document proposes changes to 29.162 to reflect these changes.
- DISCUSSION:** Proposed not to refer to SIP, (as it is not fully stable), and only refer to the 3GPP profile (TS 24.229).
- Nigel Holland (mmo2 and rapporteur) had concerns that referring to the SIPbis draft will mean updating the references every time it changes. It is planned that the SIPbis will become a RFC in March 2002.
- Some additional changes were identified on line, and were incorporated in the revised version.
- RESULT:** The document was **REVISED to 0095.**
- ? **REVISED?**
- N3-020095:** **[CR] to TS 29.162 Update of Reference Architecture.** Presented by Thomas Belling of Siemens
- DISCUSSION:** Basis for protocols need not be mentioned.
- Also in 6.1.1.3 MRFC should read MRFP
- RESULT:** The document was **REVISED to 0095.**
- ? **REVISED?**
- N3-020104:** **[CR] to TS 29.162 Update of Reference Architecture.** Presented by Thomas Belling of Siemens
- RESULT:** The document was **AGREED.**
- N3-020096** **Clean version of TS 29.162.** Presented by Nigel Holland of mm02
- RESULT:** The document was **REPLACED by 0107 before presentation.**
- ? **REPLACED?**
- N3-020107** **Clean version of TS 29.162.** Presented by Nigel Holland of mm02
- DISCUSSION:** SIP to 3GPP SIP interworking will no longer be included in this TS.
- Annex A refers to IPv6 to IPv4 interworking, but this is not mentioned in the specification. This is not a part of the Rel-5 WID, and is only a placeholder to describe in an informative annex the future work (beyond Rel-5).
- Norbert identified a number of editorial errors in the specification

Figure 3 (not needs to be inside the figure)

twice clause 6.2.2

Clause 3 has wording from the template

Symbols section can be removed if not required.

CN3 do not consider this TS is not complete enough to be placed under change control.

TS29.162 will be presented to CN#15 as v1.0.0 for information. The Rel-5 WID is therefore not yet complete.

Blocking Points:

?? **Need for an interworking between 3GPP profile of SIP and IETF SIP is still under discussion in CN1. CN3 is going to investigate this issue in a separate TR (see below).**

?? **Ongoing discussion about lpv4 and lpv6 interworking in SA2**

?? **Location of interworking function is still under discussion**

RESULT: The document was **REVISED** to 0113.

? **REVISED?**

N3-020113 **Clean version of TS 29.162v0.6.0.** Presented by Nigel Holland of mm02

DISCUSSION: Some minor editorials will be corrected by David Boswarthick.

[ACTION N3_21_02] -DAB will place N3-020113- Draft TS29.162 to the Draft Spec area of the 3GPP Server.

RESULT: The document was **AGREED**.

N3-020059: **Draft Layout and Scope of TR on interworking of IETF SIP and SIP with 3GPP profile.** Presented by Thomas Belling of Siemens.

CONTENT: CN3 was tasked by the CN1_CN3 joint meeting in Cancun to investigate the interworking between the 3GPP profile of SIP and standard SIP.

This contribution contains a DRAFT TR to describe this work.

DISCUSSION: Gábor Bajkó [Nokia] proposed to present a related discussion document [N3-020093] that was discussed by CN1 (in the Phoenix meeting). Following an analysis of the differences between SIP and 3GPP SIP CN1 believe there is NOT a requirement for interworking between the two. The proposal is that the UE can handle the interworking (using the built-in negotiation in SIP). Another alternative would be to have an interworking element in the network.

Gábor stated that a more relevant issue is SIP to GPRS interworking. Also Gábor believes that CN1 is already doing at least some of the investigation into these interworking issues.

It is not clear who has the responsibility for investigating the requirement for interworking between SIP and 3GPP SIP. Norbert stated that we have been discussing the possibility of interworking since the Brighton meeting, with no conclusions.

This TR was agreed to be [taken as a basis for investigations of interworking scenarios](#)

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

N3-020093: **Interworking between 3GPP SIP UEs and other UEs.** Presented by Gábor Bajkó of Nokia.

CONTENT: This contribution presents the possible interworking scenarios between a UE having IMS subscription and other UEs. The document was previously presented to CN1 (in their Phoenix meeting) but not agreed there.

DISCUSSION: Stephen Duttall [ATW] had some concerns over which PDP contexts would be used in this proposal. He foresees security and resource issue with the used of temporary PDP contexts. However Stephen sees this contribution as a good base for future work.

Thomas Belling [Siemens] also saw some problems with resource authorization and charging issues. These may be areas for further study.

The contribution demonstrates 6 scenarios. Ralitsa Gateva [Nokia] asked if CN1 will develop the scenarios or CN3 will have to do this work. Gábor clarified that CN1 do not intend to further develop the scenarios.

The contribution was not agreed in CN1, partially because agreement could not be reached on WHERE the function needs to take place in the network.

It was agreed that CN3 will work on how a 3GPP profile can interwork with a non-3GPP profile and NOT concentrate on where that function will take place.

Gábor suggested looking for a general solution that can handle all six possible scenarios, and not providing an individual solution for each scenario.

RESULT: The document was **NOTED**.

N3-020060: **Proposed contents for draft TR on interworking of IETF SIP and SIP with 3GPP profile.** Presented by Thomas Belling of Siemens.

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

N3-020117: **Updated WID for Interworking between IM CN Subsystem and IP networks.** Presented by Nigel Holland of mmO2.

DISCUSSION: **New Timescales for this WID necessary because of blocking points (see discussion on N3-020107)**

Present Spec to TS29.162 to CN#18 for info (Dec 2002)

Present TS29.162 to CN#19 for approval (March 2003)

RESULT: The document was **AGREED**.

N3-020114: **TR on interworking between SIP with 3GPP profile and external SIP.** Presented by Thomas Belling of Siemens.

CONTENT: Investigates the SIP signalling interworking between IMS network entities behaving as specified in the 3GPP profile of SIP in TS 24.229, with related call flows in TS 24.228 and stage 2 work in TS 23.228, and SIP network entities external to the 3GPP network, which may not adhere to the 3GPP profile of SIP.

DISCUSSION: Proposed to be discussed by e-mail. CN1 need to be informed of the progress of this TR (via the individual company delegates). When the TR is more stable is will presented to CN1 for joint discussion.

RESULT: The document was **NOTED**.

9.2 Interworking between IM Subsystems and CS [IMS-CCR-IWCS]

[CN3 consider their work to this Work Item as 30% Complete](#)

N3-020020: **Updated WID for Interworking between IM CN Subsystem and CS networks.** Presented by David Sanders of Vodafone.

CONTENT: Contains the WID that removes the term "transport" from the "transport signalling gateway". (T-SGW)

DISCUSSION: There is a requirement to update the timescales to reflect the real situation. CN3 have agreed on December 2002 as a planned completion date for this work.

This work is dependent upon the completion within the ITU-T of BICC CS3 (now moved from Feb 2002 to Dec 2002).

New Timescales for this WID

Present Spec to TS29.163 to CN#19 for info (March 2003)

Present TS29.163 to CN#20 for approval (June 2003)

Remove the work requirement on updating TS29.061

RESULT: The document was **REVISED to 0116**.

? **REVISED?**

N3-020116: Updated WID for Interworking between IM CN Subsystem and CS networks.
Presented by David Sanders of Vodafone.

RESULT: The document was **AGREED**.

N3-020032: MGW and DiffServ functions.

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

N3-020033: Proposed text for TS 29.163, regarding DiffServ. Presented by Ragnar Huslende of Ericsson.

CONTENT: The background for this paper is the discussion on Tdoc N3-01536 (titled "IMS to CS network - MGW support of Diff Serve"). N3-01536 was discussed at the CN3 #20 meeting in Cancun, but full agreement was not reached. the contribution proposes adding text to section 8.1 [overview].

DISCUSSION: There is a related document from mm02 [N3-020049]. The two documents were discussed together and the content of the changes were merged and agreed.

The rapporteur of 29.163 noted the changes on-line with no need for a revised document

RESULT: The document was **AGREED with some changes made on-line**.

N3-020049: CR to 29.163 on IMS to CS network - MGW support of Diff Serve. Presented by Nigel Holland of mm02.

CONTENT: As stated in 23.207, the GGSN shall support DiffServ edge functionality, and thus it is desirable to interwork with this.

In order to provide a means of QoS interworking between the MGW and the UMTS PS network, then Diff Serve must be supported in the MGW, thus allowing QoS interworking for Basic Voice Calls.

This contribution proposes changes to section 2 and 8.

DISCUSSION: There are some similarities with the contribution in N3-020033, but also some conflicts. The two documents were discussed together and the content of the changes were merged and agreed.

The recommendation in the change was removed (to leave DSCP as operator configurable).

RESULT: The document was **NOTED**.

N3-020056: CR to 29.163 on Update former Gi reference point. Presented by Thomas Belling of Siemens.

CONTENT: Modifies 29.163 to reflect the SA2 decision to update the IMS reference points in the network architecture specification TS 23.002. A new Mb reference point to Ipv6 network services is introduced. For signalling between Ue and P-CSCF, the Gm reference point is used.

DISCUSSION: David Sanders [Vodafone] said we need to show something on the end of the Mb interface. Thomas clarified however, that there are several options for the entities that can be connected via the Mb interface. It was agreed to put add a not to the text giving examples of possible end points.

It was agreed to remove the BGCF (and Mj interface) from the figure.

RESULT: The document was **REVISED to 0097.**

? **REVISED?**

N3-020097: CR to 29.163 on Update former Gi reference point. Presented by Thomas Belling of Siemens.

DISCUSSION: IMS MGW should read IM MGW throughout 29.163 (The rapporteur David Sanders will change this in the TS]

RESULT: The document was **AGREED.**

N3-020098: TS29.163v1.1.0. Presented by David Sanders of Vodafone.

DISCUSSION: In figure 4 MGW should be change to IM MGW. Also similar change in figure 1.

CN3 do not consider this TS as complete enough to be placed under change control.

TS29.163 will be presented to CN#15 as v1.2.0 for information. The Rel-5 WID is therefore not yet complete.

Blocking Points:

?? **Missing the ITU-T part on SIP and ISUP (BICC CS3 scheduled Nov-2002)**

RESULT: The document was **REVISED to 0115.**

? **REVISED?**

N3-020115: TS29.163v 1.2.0. Presented by David Sanders of Vodafone.

TS29.163 will be sent to CN#15 for information

[ACTION N3_21_03] -DAB to place N3-020115 Draft TS29.163 to the Draft Spec area on the Server.

RESULT: The document was **AGREED.**

N3-020058: Changes to TS 29.323 for Mc Adaptation. Presented by Thomas Belling of Siemens.

CONTENT: This document will be presented to the next CN4 meeting, and highlights some differences between the Mc-Interface connecting Cs-MGW and the MSC-Server, and the Mc interface connecting IMS-MGW and MGCF.

The contribution suggests improving TS 29.232 in order to make it applicable for the Mc interface connecting IMS-MGW and MGCF. Since CN4 is the owner of TS 29.232, the related work should be handled as a new work item for Rel.6 in CN4.

DISCUSSION: Siemens will bring a Rel-6 WID to CN4 to initiate the work. CN3 agrees that this work is required.

RESULT: The document was **NOTED.**

9.3 End to End QoS for IMS

[CN3 consider their work to this Work Item as 50% Complete](#)

9.3.1 Protocol Selection

N3-020067 **Decision to use COPS-PR.** Presented by Bert Wijnen of IETF Ops Area Director.

CONTENT: Following a mail to 3GPP, Bert wishes to present some background on the decision to use COPS-PR.

The document presents the IETF Standardization Process (Internet Drafts, RFC status) and present the current status of the CN3 related documents:-

RFC 2748, COPS - Proposed Standard

?? This is COPS for outsourcing

RFC 2749, COPS-for RSVP – Proposed Standard

?? Outsourcing RSVP admission control decisions

RFC 3084, COPS-PR - Proposed Standard

?? This is COPS for Provisioning/configuration

RFC 3159, SPPI – Proposed Standard

?? This is the Language for writing PIB Modules

Framework PIB – Internet Draft [PIB = Policy information Bit]

?? Already passed WG Last Call

?? Some Last Call comments to be incorporated

?? Will goes to AD for review

?? Then needs IETF Wide Last Call

?? Then goes onto IESG agenda for approval

Diffserv PIB – Internet Draft

?? Passed WG Last Call

?? Some Last Call comments to be incorporated?

?? Then goes to AD for review

?? Then needs IETF Wide Last Call

?? Then goes onto IESG agenda for approval

?? Responsible AD: Scott Bradner

?? Depends on Framework PIB (normative reference)

SNMP community has concerns that:

?? COPS-PR provides same function as SNMP

The IETF are presently discussing whether COPS-PR is required as there are some concerns that COPS-PR provides same function as SNMP. IETF asks 3GPP to explain the technical (or other) reasons for the 3GPP choice of COPS-PR and PIBs.

DISCUSSION: Stephen Hayes [Ericsson] COPS-PR is not useful without the supporting PIBs. If the PIBs are not on the IETF standards track then the COPS-PR is really only informational.

Bert replied that the IETF will make the PIBs 'informational, and leave the COPS-PR on the standards track.

Note: Bert Weinjen is also a co-author of SNMP v3. He also believe that SNMP may be used to do a similar function to COPS-PR. However this is not a simple solution, and some vendors are hesitant to follow this choice.

Within the IETF there are supporters for COPS-PR and supporters for SNMP. This is why the decision is not a simple one.

Stephen Hayes [Ericsson], There is a problem if 3GPP has normative references to IETF 'informative' PIBs RFCs. This is really a question of stability, as they will not have followed the full IETF standards track.

Bert clarified that these informative RFCs can also be put to IETF last call if this helps with 3GPPs referencing. He also clarified that a document is stable if it has got an RFC number and could be referenced in normative text.

RESULT: The document was **NOTED**.

N3-020047 **Why COPS for the Go interface?** Presented by Celine Bonnel of Nortel Networks.

CONTENT: Following some comments raised on the CN3 mailing list, Nortel outlines all of the reasons why 3GPP should pursue standardising the Go interface based on COPS-PR.

Nortel recommends pursuing, as originally decided by consensus, the standardisation of the Go interface based on COPS-PR.

DISCUSSION: Brian Williams [Ericsson] asked if there will not be a delay due to some of the outstanding requirements (within SA2/SA5). SA2 is currently discussing charging information. Brian believes that the dependencies on these late requirements will result in delay in CN3s work beyond March 2002.

Celine supported proceeding with the requirements that we already have, and developing the work as new requirements are released by SA2. Norbert Klehn clarified that this is the traditional way of working.

SA2 provided guidance on the use of COPS over one year ago. CN3 then further analysed the requirements and decided to use COPS PR over the Go interface.

RESULT: The document was **NOTED**.

N3-020073: **LS IN from SA2 on "requirements for Go interface" [S2-020309].** Presented by Celine Bonnel of Nortel Networks.

CONTENT: SA2 would like to acknowledge that CN3 is responsible for protocol selection for the Go interface based on the requirements defined by SA2.

The requirements for the Go interface for Release 5 are specified in 23.207. This includes the following items:

- ?? Control of Diffserv inter-working
- ?? Control of RSVP admission control and inter-working
- ?? Control of service-based policy "gating" function in GGSN
- ?? UMTS bearer authorization
- ?? QoS charging related function

SA2 has further discussed the last two of these and would like to clarify that the required functionality for those items includes:

- ?? The ability to pass binding information from GGSN to P-CSCF/PCF
- ?? The ability to pass the allowed destination IP address and port(s) for uplink and source IP address and port(s) for downlink packets from P-CSCF/PCF to GGSN
- ?? The ability to pass authorised bandwidth information from P-CSCF/PCF to GGSN
- ?? The ability to pass charging correlation identifiers from GGSN to P-CSCF/PCF
- ?? The ability for the P-CSCF/PCF to revoke authorisations

- ?? The ability for the GGSN to report loss of radio events or modification of PDP Contexts to the P-CSCF/PCF as described in 23.228 Section 5.10.3.

SA2 believes the above items are essential for Release 5.

It is expected that these clarifications will be added to SA2 documentation in due course.

There was no consensus on whether the following function was essential or just desirable:

- ?? The ability to indicate when packets should start being allowed to/from the addresses/ports described above.

DISCUSSION: SA2 no longer mandate the use of COPS (only a COPS like protocol).

Celine Bonnel [Nortel], does not see the requirements changing and proposes that CN3 continue with COPS-PR.

General feeling was that SA2 should not go so far in the Stage 3 work and should handover work earlier to CN WGs.

RESULT: The document was **NOTED**

N3-020108 LS OUT to SA2 on outstanding issues. Presented by Brian Williams of Ericsson

CONTENT: CN3s reply SA2 LS on Requirements for the Go.

RESULT: The document was **APPROVED**.

N3-020041 Status of COPS-PR/PIBs in the IETF. Presented by David Durham of Intel.

CONTENT: Update on the COPS-PR protocol and PIB status in the IETF to address concerns raised on the 3GPP mailing list. Demonstrates that there are no process issues associated with the CN3's continued use of COPS-PR and the Framework & DiffServ PIBs.

DISCUSSION: Diffserv PIB assigns a client type, and you can define one/several or all client types. It is possible to have a 3GPP PIB that has it's own defined group of client types.

One PIB will talk to multiple PDPs. It is possible to dynamically assign client types to PDPs.

These PIBs have passed IETF Working group last call. They will now be put for IETF last call (usually 4 weeks).

SCTP was not considered when the decision to used develop COPS was taken within the IETF, (as it did not exist at that time).

RESULT: The document was **NOTED**.

N3-020030 Protocol Selection for Go Interface. Presented by Brian Williams of Ericsson.

CONTENT: S2 has provided guidance to use the COPS protocol for the Go interface. However, it is only now when the intended usage (which is only the Go interface) is clear, and the Go interface itself is becoming stable that all the relevant protocol options can be given proper consideration. The early recommendations from S2 made prior to the stabilisation of the application may not have given due consideration to all valid choices.

Furthermore, other criteria on which the recommendation was based may now have changed. As stated in LS S2-020309, CN3 has the responsibility for choosing the protocol for the Go interface. The selected protocol must be able to satisfy the requirements as stated in 23.207, and S2-020309.

Thus, it is important for CN3 to properly evaluate and decide upon the protocol to be used for the Go interface, taking into account the specific usage, and other relevant decision factors such as market experience.

Although COPS-PR has been recommended by S2, other alternative protocols of COPS-Outsourcing and Diameter are also suitable.

There is little difference between the technical merits of the various protocols. Diameter has some slight technical advantages with support for SCTP, and compatibility with 3GPP architecture.

A further selection of the protocol for Go is required, considering all the valid alternatives.

DISCUSSION: Diameter is presently an integral part of 3GPP Rel-5 (for the Cx interface). Diameter is not as advanced as COPS-PR (not yet passed WG last call). This may jeopardize the completion within 3GPP. CN4 are the group working with the Cx interface, and are aware of the progress of Diameter in IETF.

Bert Wijnen will check with the appropriate IETF AD on the progress of DIAMETER

Binary protocols need less resources (especially over the air interface) than an ASCII like protocol. Norbert Klehn [Siemens] asked if the IETF have had such comments from mobile operators / manufactures. However the Go interface is over the fixed network (where resources are less of a concern). Bert Wijnen said that the message they are getting is that 'bandwidth' is not really a concern.

Stephen Hayes said that 3GPP have no preference on the use of binary or ASCII encoding.

RESULT: The document was **NOTED**.

N3-020080 Go Interface protocol selection. Presented by David Sanders of Vodafone.

CONTENT: The contributions on this subject, this document summarises some of Vodafone comments on the use of the Go Interface as well as confirming their choice of protocol.

In summary Diameter is the favoured choice of protocol by Vodafone.

DISCUSSION: Diameter is viewed by some as an extension of Radius.

Vodafone are concerned on having stable specifications in which to base our work. Using Diameter on the Cx and Go interfaces would reduce the number of protocols out in the network. Vodafone are concerned in reducing the number of signalling protocols and variants in the network, and hence reduce the implementation costs.

Celine Bonnel [Nortel] still sees COPS-PR as being the solution that best satisfies the requirements. Celine sees COP-PR to be a more 'future proof' protocol due to the use of PIBs. Also COPS-PR can provide the mechanisms required for charging.

David Durham [Intel] clarified that the 'Usage Feedback PIB' can be used for accounting

Brian Williams [Ericsson] as there is not a real technical reasoning between COPS-PR and Diameter, we need to examine the operational issues (as raised by Vodafone).

Hugh Shieh (AWS) does not see the number of protocols as a major factor (although there must be a preference for less protocols in the network). It is essential that the protocol satisfies the requirements.

Bert Wijnen [IETF AD] said that the purpose of COPS was to provide a central working mechanism for multiple signalling protocols to use. David Durham [Intel] added that COPS is not at all intended to replace SIP or RSVP.

David Durham clarified that the 'Usage Feedback PIB' can be used for accounting.

Stephen Duttall [AWS], does Diameter meet the requirements? Brian Williams [Ericsson] stated that an Ericsson contribution [N3-020101] shows how Diameter satisfies the requirements. This document was later withdrawn.

After much discussion it was concluded that CN3 did not support the use of DIAMETER, Vodafone chose to withdraw the proposal.

However, Vodafone still see some outstanding issues with the choice of COPS-PR.

RESULT: The document was **NOTED**.

N3-020069 **Proposal for the protocols to be used for the Go interface.** Presented by Daisuke Yokota of Lucent Technologies.

RESULT: The document was **WITHDRAWN**.

N3-020070 **Discussion paper on RADIUS and SNMP based approach to Go.** Presented by Alessio Casati of Lucent Technologies.

CONTENT: Contains Lucent's proposed solution [RADIUS and SNMP] for the protocol over the Go interface.

DISCUSSION: Hugh Sheih, AWS prefers having the APN choice as operator configurable (not standardized).

After much discussion, and seeing that consensus could not be reached, Lucent withdrew the proposal to use RADIUS/SNMP.

RESULT: The document was **NOTED**.

SUMMARY ON THE CHOICE OF PROTOCOL OVER THE Go INTERFACE:-

No consensus was reached to replace COPS-PR by Diameter/SNMP-RADIUS

COPS-PR is the protocol to be used over the Go interface

9.3.2 Work procedure

N3-020082: **LS IN from SA4 on "Mapping of SDP parameters in UMTS QoS parameter" [S4-020006].**

CONTENT: SA4 acknowledge CN3's request regarding the following actions:

?? Comments on the discussed mapping from SDP parameter into the UMTS QoS parameters for AMR-NB.

?? Guidance on the mapping from SDP parameter to UMTS QoS parameter for other 3GPP codecs (e.g. H.263, AMR-WB ...)

?? General guidance on the mapping from SDP parameter to UMTS QoS parameter for unknown codecs.

SA4 understand that CN3 refer to the mapping of SDP parameters onto UMTS QoS parameters in the context of the conversational service in IMS. SA4 being the group responsible for codecs and subjective quality, SA4 will take the responsibility to specify the mapping rules needed by the applications to request the appropriate QoS to the UMTS network.

The following specifications will provide the necessary information for this mapping:

?? Packet Switch Streaming; Protocols and Codecs: 3GPP TS 26.234 in release 4

?? Packet Switched Conversational Multimedia Applications: 3GPP TS 26.236 in release 5

?? Extended Packet Switch Streaming; Transport Protocols: 3GPP TS 26.234 in release 5

?? SA4 is currently working on technical aspects to produce guidelines regarding the optimisation of QoS parameters for the Packet Switch Streaming with existing UMTS QoS mechanisms (Rel-4 and Rel-5). A TR (TR 26.937, V0.1.0) on "RTP usage model" is currently under drafting stage;

The information provided by CN3 in N3-010530 will be used as the basis for the mapping of SDP parameters to UMTS QoS for conversational multimedia using AMR-NB. When this work is complete, CN3 is kindly invited to review it.

DISCUSSION: This LS relates to the document [N3-020038] from Ericsson (on Mapping worksplit).

SA4s view of work split differs from what CN3 proposed. " SA4 will take the responsibility to specify the mapping rules needed by the applications to request the

appropriate QoS to the UMTS network - When this work is complete, CN3 will be invited to review it."

SA4 are concentrating on the CODECs that are presently defined for 3GPP. however they are also looking at additional CODECs.

CN3 agrees with the proposed work-split. CN3 will send a LS [N3-020103] describing what work CN3 expects from the individual work groups

RESULT: The document was **NOTED**.

N3-020103 **LS OUT on "Procedure for specifying UMTS QoS Parameters per Application "**. Presented by Reidar Ericsson of Ericsson.

CONTENT: Contains the reply to SA4 on Procedure for specifying UMTS QoS Parameters per Application

DISCUSSION: Ralitsa Gateva [Nokia], preferred that the request be for a 'range' of values and not exact values. However in some cases exact values are required. Wording was proposed to reflect this.

Need to add the reference to TS 27.060.

Mirko Schramm questioned the 1st sentence. The LS relates to the Mapping of application to UMTS parameters, not the mapping of packets to PDP context flows.

Also some minor editorials.

No need to add the original document (especially with a note about incorrect naming of RAN3/RAN4).

RESULT: The document was **REVISED to 0105**.

? **REVISED?**

N3-020105 **LS OUT on "Procedure for specifying UMTS QoS Parameters per Application"**. Presented by Reidar Ericsson of Ericsson.

DISCUSSION: Some comments were made to 0106 (the attachment)

RESULT: The document was **REVISED to 0119**.

? **REVISED?**

N3-020119 **LS OUT on "Procedure for specifying UMTS QoS Parameters per Application"**. Presented by Reidar Ericsson of Ericsson.

RESULT: The document was **APPROVED**.

N3-020038 **Procedure for specifying UMTS QoS parameters per application**. Presented by Reidar Ericsson of Ericsson.

CONTENT: This contribution wants to introduce and share a more general view regarding which UMTS QoS parameters the UE shall use when setting up a radio bearer for the media flow(s) it should carry and furthermore propose a procedure for defining values on UMTS QoS parameters.

DISCUSSION: Ralitsa Gateva [Nokia] supports standardizing of mapping parameters, however the realisation is very difficult to achieve.

When CN3 considers the QoS mapping on the Go interface, it will be necessary to examine the information / guidance from the relevant SA groups on the QoS UE mapping in the UE.

Note the group identified should be RAN4 not RAN3.

RESULT: The document was **REVISED to 0106**.

? **REVISED?**

N3-020106 **Procedure for specifying UMTS QoS parameters per application.** Presented by Reidar Ericsson of Ericsson.

DISCUSSION: Ralitsa wishes the wording to be 'changed to range of values'

Delete the paragraph relating to the mapping of SDP to QoS parameters

RESULT: The document was **REVISED to 0118.**

? **REVISED?**

N3-020118 **Procedure for specifying UMTS QoS parameters per application.** Presented by Reidar Ericsson of Ericsson.

RESULT: The document was **AGREED.**

N3-020028 **Development of Go and Liaison with IETF.** Presented by Brian Williams of Ericsson.

CONTENT: This contribution provides clarification to the process used for specifying the Go interface. It also identifies considerations related to reusing existing standardisation work from the IETF.

The proposal for the agreed work practice towards the IETF.

- 1. CN3 has responsibility for the specification of the Go interface.*
- 2. The relevant 3GPP TS specifications related to the Go Interface are the only documents with recognised status within 3GPP for that Interface. Editorial comments referring to other documents not reviewed/approved by CN3 shall be removed.*
- 3. Annex B of TS 29.207 is recommended to be developed in a format suitable for storage as a plain text document in a manner to facilitate IETF review. Requests for review of that Annex can then be made to the RAP WG mailing list. Alternatively, individual drafts based on the TS 29.207 are encouraged. Review of such drafts may occur through the normal IETF processes. Such individual drafts though do not have any formal 3GPP endorsement.*
- 4. Feedback from the IETF shall be introduced to the CN3 working group via contribution as per normal procedures. Standardisation of the Go PIB itself in IETF is not required.*

DISCUSSION: **CN3 agreed to the above procedure for the development of the Go interface.**

Bert Wijnen [IETF AD], 3GPP may ask the IETF to standardize their 3GPP specific PIB at a later date.

It is impossible to import groups from the DIFFSERV PIB for the 3GPP PIB (using a compliancy statement).

Brian Williams, we would like IETF input on the 3GPP PIB, but 3GPP does not require IETF standards status. Bert Wijnen clarified that [RAB-RAP WG](#) review is not the same as full IETF review.

CN3 previously decided that 3GPP will standardise the 3GPP Go PIB. Also the intention is that IETF be made aware of the work. Companies that participate in both 3GPP and IETF will feedback the progress on this PIB to the IETF. In addition these same companies will feedback information from the IETF to CN3.

Nortel supported this process and the proposed changes to TS 29.207.

Bert Wijnen suggested a liaison to the IETF informing them of 3GPPs intention. Individual companies cannot officially represent official IETF status, (only provide information / status).

Bert also suggested that 3GPP looked at the groupings used in the DIFFSERV PIB to see if they can be used / adapted for the 3GPP Go PIB.

Also Bert clarified that use of ASCII documents is not an absolute requirement for IETF RAB review. Brian Williams [Ericsson] proposed submitting documents to the IETF in the usual plain text format , in order NOT to limit the group of people reviewing the PIB.

The changes to TS 29.207 contained in this document were agreed to be included in the new version of the TS.

RESULT: The document was **AGREED**.

9.3.3 Impacts on 29.207

N3-020025 **TS 29.207 overall enhancements.** Presented by Celine Bonnel of Nortel Networks & ATW

CONTENT: Proposes overall enhancements to TS29.207. Relates to / conflicts with other contributions from Nokia and Ericsson (see below)

DISCUSSION: **Clause 3.** Some clarification required for PDP = Policy Decision Point / PDP context = Packet Data Protocol context

Clause 4.1.1: References [10][11] missing from list. Title needs correcting.

The overview repeats the requirements already contained in TS23.007. Agreed to remove and merge the content of 4.1.1.

Go interface is not only used for policy control, and this needs to be reflected in this section.

Ralitsa Gateva [Nokia] thinks 4.1 should contain hi-level functional requirements only. The Nokia document [N3-020045] reflects this.

NOTE: There was no consensus from SA2 on the need for a Gating function (essential or optional).

Clause 4.1.2: Includes element that are outside the scope of the overview of Session Authorization Framework

No need for call flows in an overview. (note TS29.208 describes the scenarios).

Clause 4.1.3: The number of PCFs that a GGSN may talk to may change over time - so how does the GGSN know what scope of PCFs it needs to work with?

Clause 5.2.4 Security Considerations: possible not required in this TS.

General statement: CN3 is awaiting guidance from SA2 on how charging will be carried out in order to fully analyse the impacts on the Go interface.

Several comments were discussed in the full CN3 meeting. The detailed changes to 29.207 were further discussed in a dedicated editing session on Thursday 31st Jan.

The changes 'AS SUCH' contained in N3-020025 were not agreed, but will be further developed in the editing session.

RESULT: The document was **NOTED**.

N3-020029 **Go Functional Elements.** Presented by Brian Williams of Ericsson.

CONTENT: This contribution examines the purpose of the Go interface, and considers other alternatives to the currently proposed information which would allow the Go purposes to be met while reducing the work involved in the Go interface, and more importantly, reducing the complexity and therefore system cost involved with these functions.

DISCUSSION: We should only use the subgroups of PRCs that we need.

Ericsson now have some concerns about using the token bucket parameter. This needs some more study.

Mirko Schramm [Siemens] have some reservations about limiting the PIB with relations to 'removing control DiffServ'. Nortel share these reservations, and don't want to see DiffServ control removed from Rel-5.

Nokia agree with Ericsson and support removing DiffServ.

Comments to the Proposed changes to TS 29.207 are presented below:

- ?? Agreed to introduce some text on the function for authorisation shall be included into chapter 4.3.1.1.
- ?? Agreed to introduce a new chapter 4.3.1.x for the charging correlation
- ?? No agreement to remove the DiffServ edge function.
- ?? No agreement to include the details of the proposed information elements as presented in this document.

The changes 'AS SUCH' contained in N3-020029 were not agreed, but will be further developed in the editing session.

RESULT: The document was **NOTED**.

N3-020045 [CR 29.207] Go interface functionalities. Presented by Ralitsa Gateva of Nokia.

CONTENT: Proposes general changes to 29.207.

DISCUSSION: Celine Bonnel [Nortel] prefers that the Media Authorization information 'shall be' contained rather than optional.

Mirko Schramm [Siemens] in reference to the section on Media Auth decision - remove reference to specific parameters in SDP. It is better to have these elsewhere

The changes 'AS SUCH' contained in N3-020029 were not agreed, but will be further developed in the editing session.

RESULT: The document was **NOTED**.

N3-020046 [CR 29.207] GGSN functionalities and procedures. Presented by Ralitsa Gateva of Nokia.

CONTENT: This contribution proposes the changes related to GGSN functionalities and procedures in sections 4.3.1 and 5.1.1 of TS 29.207

DISCUSSION: Nokia view that the Gating function can be optional.

Problem with the GGSN and UE attempting to deactivation of the PDP context.

Some delegates felt we needed further guidance on the reduction in requirements. Finally it was agreed to continue with the drafting, and if agreement could not be reached, send a LS to SA2.

The changes 'AS SUCH' contained in N3-020046 were not agreed, but will be further developed in the editing session.

RESULT: The document was **NOTED**.

N3-020026 TS 29.007 annex B: UMTS Go PIB. Presented by Celine Bonnel of Nortel Networks.

CONTENT: Contains the details of the UMTS Go PIB to be added to Annex B of TS29.207.

DISCUSSION: O&M is under the responsibility of SA5. Some of this information could be fed back to that group for inclusion in TS32.101.

Avoid the use of the term "UMTS" in the PIB and use Go interface or similar.

CN3 need to identify the parameters that need to be included in the PIB

David Durham [Intel], the Go PIB is based upon 2 other PIBs and they need to be considered together. How stable are these other PIBs? It may be preferable to cut and paste excerpts of these IBS as opposed to joining to them.

David Sanders suggested making the PIB more generic i.e. not use ORGANIZATION = "3GPP CN3 WG".

PIB registration requested to IANA.

This document will be used as the base for discussion during an editing session, with the aim of obtaining a skeleton document that can be used as the basis for CN3's work on the Go PIB.

RESULT: The document was **NOTED**.

N3-020027 **Go requirements into the UMTS Go PIB Information Elements.** Presented by Celine Bonnel of Nortel Networks

CONTENT: In order to clarify some misinterpretations of the COPS-PR & UMTS Go PIB proposal, this contribution re-iterates some of the major element of the Go PIB proposal.

DISCUSSION: Brian Williams [Ericsson], supported the overall document and expect the contents to be covered during the drafting session on 29.207.

Will be further developed in the editing session.

RESULT: The document was **NOTED**.

N3-020043 **[CR 29.207] PCF discovery.** Presented by Ralitsa Gateva of Nokia.

CONTENT: This contribution proposes that a PCF identifier is allocated to each PCF.

DISCUSSION: Johanna Wild [Motorola] and Hatef Yamini [H3G] saw the PCF discovery as not necessary for Rel-5. This cannot be a high priority for CN3 considering the time restraints.

Architecture presently has the PCF embedded in the P-CFCS.

Laurent Andriantsiferana [Cisco]: the UE is aware of the IP address of the P-CSCF and supports using a DNS type nomenclature. This was supported by Hatef Yamini [H3G].

This issue will be further discussed on the CN3 email exploder.

RESULT: The document was **NOTED**.

N3-020044 **[CR 29.207] PCF procedure for media authorisation.** Presented by Ralitsa Gateva of Nokia.

CONTENT: This contribution proposes that the policy setup information from the P-CSCF to the PCF shall include the SDP payload found in every message part of the SIP session setup.

DISCUSSION: Some issues were identified regarding the understanding of the Stage 2 specification. Possibly this text should not be a note, but included in the text body.

Some editorial changes were identified.

RESULT: The document was **REVISED to 0109**.

? **REVISED?**

N3-020109 **[CR 29.207] PCF procedure for media authorisation.** Presented by Ralitsa Gateva of Nokia.

RESULT: The document was **AGREED**.

N3-020120 **Clean version of TS 29.207**

CONTENT: To be used as the basis for further discussions

[ACTION N3_21_04] -DAB will place N3-020120- Draft TS29.207 to the Draft Spec area of the 3GPP Server.

RESULT: The document was **AGREED**.

9.3.4 Impacts on 29.208

N3-020042 [CR 29.208] Reference to SDP to UMTS QoS Parameter Mapping.

RESULT: The document was **REPLACED BY 0102 before presentation.**

? **REPLACED?**

N3-020102 [CR 29.208] Reference to SDP to UMTS QoS Parameter Mapping. Presented by Hatéf Yamini of H3G.

CONTENT: This document proposes text to be added to section 7 of 29.208.

DISCUSSION: Comments were made to the procedure of the authorization Token.

Decision on whether GGSN can downgrade the QoS has not yet been agreed in CN3.

Need to check T2 specs. to see the latest UE architecture / split. Hatéf agreed to this.

Will be further developed in the editing session.

RESULT: The document was **NOTED.**

N3-020031 **GGSN-initiated PDP context release.** Presented by Ragnar Huslende of Ericsson.

CONTENT: PDP context release may in certain situations be initiated by the GGSN. This case is proposed to be added to paragraph 6.4 of TS 29.208

DISCUSSION: Daisuke Yokota (Lucent-Rapporteur of 29.208) suggested changing the bullet list to reflect the order of events in figure 6.4.

RESULT: The document was **REVISED to 0110.**

? **REVISED?**

N3-020110 **GGSN-initiated PDP context release.** Presented by Ragnar Huslende of Ericsson.

RESULT: The document was **AGREED.**

N3-020111 **PDP Context Modification flow.** Presented by Mirko Schramm of Siemens

RESULT: The document was **AGREED.**

N3-020048 [CR 29.208] "QoS signalling flows with SBLP". Presented by Nigel Holland of mm02.

CONTENT: This paper proposes two procedures for the Resource reservation flows with service based local policy. These will be included in section 5 of the current TS 29.208

DISCUSSION: It was agreed in CN3#20 meeting to have QoS mapping in TS29.208.

Agreement to delete the SDP message

RESULT: The document was **REVISED to 0110.**

? **REVISED?**

N3-020112 [CR 29.208] "QoS signalling flows with SBLP". Presented by Nigel Holland of mm02.

DISCUSSION: Comment to Note on Step 2 "UE shall be able to include". This needs to be simply "shall include....."

Mirko Schramm [Siemens] wanted to delete the descriptions of the actions taken by the SGSN [bullet point 3]. The text was re-worded.

RESULT: The document was **REVISED to 0122.**

? **REVISED?**

N3-020122 [CR 29.208] "QoS signalling flows with SBLP". Presented by Nigel Holland of mm02.

RESULT: The document was **AGREED.**

N3-020054 [CR 29.208] SDP to UMTS QoS Parameter Mapping. Presented by Hatéf Yamani of H3G.

CONTENT: The paper discusses the UMTS bearer QoS parameters that may be affected by each of the SDP parameters.

DISCUSSION: Reidar Ericsson [Ericsson] believes this is an issue for the CODEC group (SA4) NOT for CN3. SA4 are presently doing this work in a TR/TS.

Mirko Schramm [Siemens] Mapping is done in the PCF, UE and the GGSN. CN3 are tasked by SA2 to ensure this mapping is done correctly. However this does rely on work from SA4.

Hatéf proposes putting this type of table into an informational annex within 29.208. Reidar disagrees and believe this mapping should to be done in SA4, and CN3 have a pointer to the SA4 TS from their 27.060. However 27.060 is related only to GPRS.

Daisuke Yokota reminded that the original plan was to have mapping in the 27.060, but it was moved to 29.208 as it is not only for the UE, but also for the GGSN.

CN3 should concentrate only on the mapping which is under the responsibility of CN3.

David Sanders [Vodafone] suggested having a separate specification.

It was agreed that this mapping is required in a specification, although agreement was not reach as which one.

The issue was postponed until CN3 receives some input from SA4.

RESULT: The document was **NOTED**.

N3-020057 [CR 29.208] Update of former Gi Reference Points in Scope section. Presented by Thomas Belling of Siemens.

CONTENT: Proposes to update 29.208 with the new IMS reference points as defined by SA2.

RESULT: The document was **AGREED to be included in 29.208**.

N3-020121 Clean version of TS 29.208

CONTENT: To be used as the basis for further discussions

[ACTION N3_21_05] -DAB will place N3-020121- Draft TS29.208 to the Draft Spec area of the 3GPP Server.

RESULT: The document was **AGREED**.

9.4 Service change and UDI fall back [SCUDIF]

CN3 consider their work to this Work Item as 100% Complete

N3-020021: CR071 Rev2 to 27.001 v5.0.0 " Service change and fall back for UDI/RDI multimedia service ". Presented by Patrice Hede of Ericsson.

CONTENT: Contains (CAT C) "Service change / fallback for UDI/RDI 3G.324M multimedia calls"

DISCUSSION: Clarified that Service change is not applicable for dual service, (under the present WID). Norbert Klehn (Siemens), asked for clarification on how to specify the different parameter sets for dual and single mode. It was proposed to add a note to 27.001

RESULT: The document was **REVISED to 0087**.

? **REVISED?**

N3-020087: CR071 Rev3 to 27.001 v5.0.0 " Service change and fall back for UDI/RDI multimedia service ". Presented by Patrice Hede of Ericsson.

DISCUSSION: FNUR=32 32 (i.e. 32 repeated twice)

RESULT: The document was **REVISED to 0090**.

? **REVISED?**

N3-020090: **CR071 Rev4 to 27.001 v5.0.0 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

RESULT: The document was **AGREED**.

N3-020022: **CR046 Rev2 to 29.007 v5.0.0 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

CONTENT: Contains **(CAT C)** that "Allows service change and fallback for UDI/RDI 3G.324M multimedia calls "

DISCUSSION: Change of the title UDI/RDI and a avoid the use if the term "subscription".

RESULT: The document was **REVISED to 0088**.

? **REVISED?**

N3-020088: **CR046 Rev3 to 29.007 v5.0.0 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

DISCUSSION: A clean version of the change was required.

RESULT: The document was **REVISED to 0091**.

? **REVISED?**

N3-020091: **CR046 Rev4 to 29.007 v5.0.0 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

RESULT: The document was **AGREED**.

N3-020083: **CR to 23.972 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

CONTENT: Contains CR to TR-23.972 "Circuit Switched Multimedia Telephony", submitted to CN1 for agreement and presented to CN3 for information on the subject of service change and fallback for UDI/RDI calls.

DISCUSSION: Thomas Belling [Siemens] questioned the validity of the reference to footnote#1 "Clear Mode Codec is being standardised within BICC CS3". This will be raised again when the document is presented to CN1.

Norbert commented that TR23.972 is quite out of date, and needs some cleaning. Farhoumand Rouzbeh [Ericsson] stated that his company will provide a clean-up CR to the next CN1 meeting

RESULT: The document was **NOTED**.

N3-020084: **CR to 24.008 " Service change and fall back for UDI/RDI multimedia service "**. Presented by Patrice Hede of Ericsson.

CONTENT: Contains CR to TS-24.008, submitted to CN1 for agreement and presented to CN3 for information on the subject of service change and fallback for UDI/RDI calls.

DISCUSSION:

RESULT: The document was **NOTED**.

9.5 Other Rel-5 Work Items

- N3-020015** **Setting of parameter values in the Backup BC IE.** Presented by Norbert Klehn of Siemens.
- CONTENT:** Contains a proposal to introduce a Backup BC IE that re-uses the layout of the BC IE and can carry the same information as in the BC IE, but does not need to be complete in the sense of the BC IE. The contribution discusses first the different categories of the parameter values and proposes afterwards a setting of parameter values.
- RESULT:** The document was **NOTED**.
-
- N3-020052** **CR049 to 29.007 v5.0.0: Mobile terminated call with single numbering scheme.** Presented by Norbert Klehn of Siemens.
- CONTENT:** Contains **(CAT B)** CR that " adds a new section to the specification for single numbering scheme"
- DISCUSSION:** The call flow diagram in Section 9.2.2.2 also needs updating.
- RESULT:** The document was **REVISED to 0099**.
- ? REVISED?**
- N3-020099** **CR049 Rev1 to 29.007 v5.0.0: Mobile terminated call with single numbering scheme.** Presented by Norbert Klehn of Siemens.
- RESULT:** The document was **AGREED**.
-
- N3-020053** **CR075 to 27.001 v5.0.0: Mobile terminated call with single numbering scheme.** Presented by Norbert Klehn of Siemens.
- CONTENT:** Contains **(CAT B)** CR that " adds a new section to the specification for single numbering scheme"
- DISCUSSION:** Request to add a note after BACKUP BC_IE to Refer to TS 29.007 and TS 24.008
- RESULT:** The document was **REVISED to 0100**.
- ? REVISED?**
- N3-020100** **CR075 Rev1 to 27.001 v5.0.0: Mobile terminated call with single numbering scheme.** Presented by Norbert Klehn of Siemens.
- RESULT:** The document was **AGREED**.
-
- N3-020018** **CR 24.008: Mobile terminated call with single numbering scheme.** Presented by Norbert Klehn of Siemens.
- CONTENT:** Will be presented along with the discussion paper to CN1 for their approval.
- RESULT:** The document was **NOTED**.
-
- N3-020019** **CR048 to 29.007 v5.0.0: Modem/multimedia calls which are signalled as Speech.** Presented by David Sanders of Vodafone.
- CONTENT:** Contains **(CAT F)** that "clarifies the VMSC/HLR logic for modem/multimedia calls, which are signalled as speech"
- DISCUSSION:** David Boswarthick of MCC has now created the SDL files that can be added to the specification.
- The requirement for similar changes to previous releases will be checked.
- Ericsson subsequently identified some problems with this CR that needed checking
- RESULT:** The document was **POSTPONED UNTIL CN3#22**.

- N3-020062** **CR048 to 29.414 v4.3.0: Add GERAN lu mode to scope.** Presented by Thomas Belling of Siemens
- RESULT:** The document was **AGREED**.
-
- N3-020063** **CR048 to 29.415 v4.2.0: Add GERAN lu mode to scope.** Presented by Thomas Belling of Siemens
- RESULT:** The document was **AGREED**.
-
- N3-020064** **CR005 to 43.010 v4.1.0: Terminology clarifications as requested by TSG GERAN.**
Presented by David Boswarthick of MCC.
- DISCUSSION:** No need to remove the term GSM from the title
- RESULT:** The document was **REVISED to 0092**.
- ? REVISED?**
-
- N3-020092** **CR005 Rev1to 43.010 v4.1.0: Terminology clarifications as requested by TSG GERAN.** Presented by David Boswarthick of MCC.
- RESULT:** The document was **AGREED**.
-
- N3-020065** **CR001 to 43.045 v4.0.0: Terminology clarifications as requested by TSG GERAN.**
Presented by David Boswarthick of MCC.
- RESULT:** The document was **AGREED**.
-
- N3-020066** **CR to 43.046 v4.0.0: Terminology clarifications as requested by TSG GERAN.**
Presented by David Boswarthick of MCC.
- RESULT:** The document was **WITHDRAWN before presentation**.

10 Joint Sessions:

10.1 Joint Session with CN1 on 24.228

For the minutes of the joint session, see the CN1 meeting report at:-

ftp://ftp.3gpp.org/TSG_CN/WG1_mm-cc-sm/TSGN1_22/

Comments on the report of the Joint session to PerJohan.Jorgensen@etsi.fr

11 Administrative issues

11.1 Work Plan Review

N3-020007: **3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#14 plenary including several updates from WGs.

DISCUSSION: David Boswarthick will update this version with the changes made at this meeting and distribute it for comments to the CN3 email exploder until the CN3#21bis meeting.

 **[ACTION N3_21_06] -DAB will distribute the updated version of 3GPP work plan by email**

RESULT: The document was **NOTED**

11.2 Specification Review

N3-020008: **CN3 Specification status following CN Plenary # 14.** Presented by David, MCC.

CONTENT: Contains a list of the CN3 specification, and their status following SA#14.

RESULT: The document was **NOTED**

11.3 Future Work

No input to this agenda item.

CN3 will have an editing session on the 25-26 Feb 2002

CN3#21bis will be held on the 26th of Feb with the limited scope of Go issues.

11.4 Next meetings, allocation of hosts

Meeting	Date	Location	Host	Comments
TSG-CN3#21b	25 th - 27 th Feb 2002	Sophia, France	ETSI	Go Interface Only
TSG-CN#15	6 th - 8 th Mar 2002	Cheju Island, Korea	TTA	Deadline for Completion of Rel-5
TSG-CN3#22	8 th - 12 th April 2002	Ft. Lauderdale, USA	NA Friends	Co-located CN1,CN2,CN3,CN4
TSG-CN3#23	13 th - 17 th May 2002	Amsterdam	Ericsson	Co-located CN1,CN2,CN3,CN4
TSG-CN#16	5 th - 7 th June 2002	Florida, USA	Motorola	
TSG-CN3#24	29 th July - 2 nd Aug 2002	Helsinki, Finland	Sonera	Co-located CN1,CN2,CN3,CN4
TSG-CN#17	4 th - 6 th Sept 2002	Biarritz France	???	
TSG-CN3#25	23 rd - 27 th Sept 2002	???, USA	???	Co-located CN1,CN2,CN3,CN4
TSG-CN3#26	11 th - 15 th Nov 2002	Penang, Malaysia	JP Friends	Co-located CN1,CN2,CN3,CN4
TSG-CN#16	4 th - 6 th Dec 2002	New Orleans, USA	NA Friends	

12 Summary of Results

12.1 Work Items

The following WIDs were agreed by CN3, and are to be sent to the TSG-CN#14 Plenary for Approval:

TDoc #	Tdoc Title	WI	Rel
N3-020117	Updated WID for Interworking between IM CN subsystem and IP networks	IMS-CCR-IWIP	Rel-5
N3-020116	Updated WID for Interworking between IM CN subsystem and CS networks	IMS-CCR-IWCS	Rel-5

12.2 Liaison Statements

The following Liaison Statements were agreed by CN3:

TDoc #	Tdoc Title	LS to	LS cc	LS Attachment
N3-020108	requirements for Go interface [to S2, no cc]	SA2		
N3-020119	Procedure for specifying UMTS QoS Parameters per Application	SA1, SA4, RAN1, RAN2, RAN4, T1	SA2	N3-020118

12.3 Change Requests

The following CRs were agreed by CN3, and are to be sent to the TSG-CN#14 Plenary for Approval:

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Rel	C_Ver
N3-020063	Add GERAN lu mode to scope	29.415	005		D	Rel-5	4.2.0
N3-020062	Add GERAN lu mode to scope	29.414	007		D	Rel-5	4.3.0
N3-020077	Change of associated attribute for 3GPP-NSAPI	29.061	037		A	R99	3.8.0
N3-020078	Change of associated attribute for 3GPP-NSAPI	29.061	038		A	Rel-4	4.3.0
N3-020079	Change of associated attribute for 3GPP-NSAPI	29.061	039		A	Rel-5	5.0.0
N3-020075	Change of associated attribute for 3GPP-NSAPI	09.61	A031		F	R97	6.6.0
N3-020076	Change of associated attribute for 3GPP-NSAPI	09.61	A032		A	R98	7.5.0
N3-020100	Mobile terminated call with single numbering scheme	27.001	075	1	B	Rel-5	5.0.0
N3-020099	Mobile terminated call with single numbering scheme	29.007	049	1	B	Rel-5	5.0.0
N3-020085	Negotiation of parameter values for facsimile	27.001	073	1	F	Rel-4	4.6.0
N3-020086	Negotiation of parameter values for facsimile	27.001	074	1	A	Rel-5	5.0.0
N3-020091	Service change and fallback for UDI/RDI multimedia	29.007	046	2	C	Rel-5	5.0.0
N3-020090	Service change and fallback for UDI/RDI multimedia calls	27.001	071	4	C	Rel-5	5.0.0
N3-020065	Terminology clarifications as requested by TSG GERAN	43.045	001		D	Rel-5	4.0.0
N3-020092	Terminology clarifications as requested by TSG GERAN	43.010	005	1	D	Rel-5	4.1.0
N3-020061	Update Reference to I.363.2	29.414	006		F	Rel-4	4.3.0

12.4 TRs/TSs

The following TR/TSs were agreed by CN3, and are to be sent to the TSG-CN#15 Plenary for information:

TDoc #	Spec	Tdoc Title	C_Version	Rel
N3-020113	29.162	Clean version of TS 29.162	0.6.0	Rel-5
N3-020115	29.163	Clean version of TS 29.163	1.2.0	Rel-5

12.5 Other

None in this meeting.

12.6 Summary of Action Points

Note: Includes all open action from previous meetings

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_20_06	DAB	Check usage of term GSM in section 2 of the TS template.	by N3#21		OPEN
N3_21_01	Johanna Wild	examine the impacts of IPv6 auto configuration on 29.061 & 27.060	by N3#22		OPEN
N3_21_02	DAB	place N3-020113- Draft TS29.162 to the Draft Spec area of the 3GPP Server	by 10 th Feb		OPEN
N3_21_03	DAB	place N3-020115- Draft TS29.163 to the Draft Spec area of the 3GPP Server	by 10 th Feb		OPEN
N3_20_04	DAB	place N3-020120- Draft TS29.207 to the Draft Spec area of the 3GPP Server	by 10 th Feb		OPEN
N3_20_0	DAB	place N3-020121- Draft TS29.208 to the Draft Spec area of the 3GPP Server	by 10 th Feb		OPEN
N3_20_0	DAB	will distribute the updated version of 3GPP work plan by email for comments	by 10 th Feb		OPEN

13 Any other business

None

14 Close of meeting

Norbert closed the 21st CN3 meeting on Friday 1st February at 12:30, and thanked the host for the excellent meeting location and arrangements.

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

Annex A: List of CN3 Meeting Participants

The following delegates attended the CN3#21 meeting.

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Annex B: List of documents

Details can also be found in the file *N3_21_Tdoc_list.xls* on the meeting server.

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020001	2	AGENDA	Draft Agenda for CN3#21 Meeting	CN3 Chair								AGREED
N3-020002	3.1	REPORT	Draft Report from CN3#20	MCC								APPROVED
N3-020003	3.2	REPORT	Draft Report from CN#14	MCC								NOTED
N3-020004	3.3	REPORT	Draft Report from SA#14	MCC								NOTED
N3-020005	3.2	REPORT	Brief information from CN#14	CN3 Chair								NOTED
N3-020006	3.2	REPORT	CN Slide presentation to SA#13	CN Chair								NOTED
N3-020007	11.1	WORK PLAN	Latest Version of 3GPP Work plan	MCC								E-Mail COMMENTS
N3-020008	11.2	LIST	Status of CN3 Specs following CN#14 meeting	MCC								NOTED
N3-020009	6	LS IN	Impacts of Subscriber and Equipment Trace [S5-020013]	S5								POSTPONED TO CN3#22
N3-020010	3	DAD	Allocation of documents to agenda items [before meeting]	CN3 Chair								NOTED
N3-020011	3	DAD	Allocation of documents to agenda items [start day1]	CN3 Chair								AGREED
N3-020012	3	DAD	Allocation of documents to agenda items [start day2]	CN3 Chair								NOTED
N3-020013	3	DAD	Allocation of documents to agenda items [start day3]	CN3 Chair								NOTED
N3-020014	3	DAD	Allocation of documents to agenda items [start day5]	CN3 Chair								NOTED
N3-020015	9.5	DISCUSSION DOC	Setting of parameter values in the Backup BC IE	SIEMENS AG	TEI							NOTED
N3-020016	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI			B	29.007	Rel-5	5.0.0	REPLACED BY 0052 BEFORE PRES

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020017	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI			B	27.001	Rel-5	5.0.0	REPLACED BY 0053 BEFORE PRES
N3-020018	9.5	[CR]	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI	509	1	B	24.008	Rel-5	5.2.0	NOTED
N3-020019	9.5	CR	Clarification to VMSC/HLR logic for modem/multimedia calls which are signalled as Speech	Vodafone	TEI	048		F	29.007	Rel-5	5.0.0	POSTPONED TO CN3#22
N3-020020	9.2	WID	Updated WID for Interworking between IM CN subsystem and CS networks	Vodafone	IMS-CCR- IWCS							REVISED TO 0116
N3-020021	9.4	CR	Service change and fallback for UDI/RDI multimedia calls	Ericsson	SCUDIF	071	3	C	27.001	Rel-5	4.6.0	REVISED TO 0087
N3-020022	9.4	CR	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF	046	2	C	29.007	Rel-5	5.0.0	REVISED TO 0088
N3-020023	9.4	[CR]	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF			C	23.972	Rel-5		REVISED TO 0083
N3-020024	9.4	[CR]	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF			C	24.008	Rel-5	5.2.0	REVISED TO 0084
N3-020025	9.3	CR	TS 29.207 overall enhancements	Nortel Networks & AT&T	e2e QoS			B	29.207	Rel-5	0.5.0	NOTED
N3-020026	9.3	CR	TS 29.207 Annex B: UMTS Go PIB	Nortel Networks & AT&T	e2e QoS			B	29.207	Rel-5	0.5.0	NOTED
N3-020027	9.3	DISCUSSION DOC	Go requirements into the UMTS Go PIB Information Elements	Nortel Networks	e2e QoS							NOTED
N3-020028	9.3	DISCUSSION DOC	Development of Go and Liaison with IETF	Ericsson	e2e QoS							AGREED
N3-020029	9.3	DISCUSSION DOC	Go Functional Elements	Ericsson	e2e QoS							NOTED
N3-020030	9.3	DISCUSSION DOC	Protocol Selection for Go Interface	Ericsson	e2e QoS							NOTED
N3-020031	9.3	Other	GGSN-initiated PDP context release	Ericsson	e2e QoS							REVISED TO 0110
N3-020032	9.2	DISCUSSION DOC	MGW and DiffServ functions	Ericsson	IMS-CCR- IWCS							WITHDRAWN
N3-020033	9.2	Other	Proposed text for TS 29.163, regarding DiffServ	Ericsson	IMS-CCR- IWCS							AGREED
N3-020034	9.1	LS IN	Codecs used in IP networks [S4-010687]	S4								NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Version	Status
N3-020035	6	LS IN	Fwd LS on S3 LI that Lawful Intercept [NP-010698]	CN / S3 Li								NOTED
N3-020036	6	LS IN	Re. LS on SIP Signalling and Codec Issues [S4-010644]	S4								NOTED
N3-020037	6	LS IN	Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only) [N1-012050]	N1								NOTED
N3-020038	9.3	DISCUSSION DOC	Procedure for specifying UMTS QoS parameters per application	Ericsson	e2e QoS							REVISED TO 0106
N3-020039	8	CR	Negotiation of parameter values for facsimile	SIEMENS AG	TEI	073		F	27.001	Rel-4	4.6.0	REVISED TO 0085
N3-020040	8	CR	Negotiation of parameter values for facsimile	SIEMENS AG	TEI	074		A	27.001	Rel-5	5.0.0	REVISED TO 0086
N3-020041	9.3	DISCUSSION DOC	Status of COPS-PR/PIBs in the IETF	Intel	e2e QoS							NOTED
N3-020042	9.3	[CR]	SDP to UMTS QoS Parameter Mapping	H3g	e2e QoS			B	29.208	Rel-5	0.2.0	REPLACED BY 0102 BEFORE PRESENTATION
N3-020043	9.3	[CR]	PCF discovery	Nokia	e2e QoS				29.207	Rel-5	0.5.0	NOTED
N3-020044	9.3	[CR]	PCF procedure for media authorization	Nokia	e2e QoS				29.207	Rel-5	0.5.0	REVISED TO 0109
N3-020045	9.3	[CR]	Go interface functionalities	Nokia	e2e QoS				29.207	Rel-5	0.5.0	NOTED
N3-020046	9.3	[CR]	GGSN functionalities and procedures	Nokia	e2e QoS				29.207	Rel-5	0.5.0	NOTED
N3-020047	9.3	DISCUSSION DOC	Why COPS for the Go interface?	Nortel Networks	e2e QoS							NOTED
N3-020048	9.3	DISC/CR	29.208 - "QoS signalling flows with SBLP" - (Revised N3-010600)	mmO2	e2e QoS							REVISED TO 0112
N3-020049	9.2	DISC/CR	29.163 - "IMS to CS network - MGW support of Diff Serve" (revision of N3-010536)	mmO2	IMS-CCR- IWCS							NOTED
N3-020050	7	CR	Mobile terminated call with single numbering scheme	Ericsson	TEI	072	1	F	27.001	R99, R4,R5	3.10.0	POSTPONED TO CN3#22
N3-020051	7	CR	Mobile terminated call with single numbering scheme	Ericsson	TEI	047	1	F	29.007	R99, R4,R5	3.9.0	POSTPONED TO CN3#22
N3-020052	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI	049		B	29.007	Rel-5	5.0.0	REVISED TO 0099

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020053	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI	075		B	27.001	Rel-5	5.0.0	REVISED TO 0100
N3-020054	9.3	DISCUSSION DOC	SDP to UMTS QoS Parameter Mapping	H3g	e2e QoS			B	29.208	Rel-5	0.2.0	NOTED
N3-020055	9.1	DISCUSSION DOC	TS 29.162 Update of Reference Architecture.	Siemens	IMS-CCR-IWIP							REVISED TO 0095
N3-020056	9.2	[CR]	Update former Gi reference point in TS 29.163	Siemens	IMS-CCR- IWCS			F	29.163	Rel-5	1.0.0	REVISED TO 0097
N3-020057	9.3	DISCUSSION DOC	TS 29.208 Update of former Gi Reference Points in Scope section	Siemens	e2e QoS							AGREED
N3-020058	9.2	DISCUSSION DOC	Mc Adaptation	Siemens	IMS-CCR- IWCS							NOTED
N3-020059	9.1	TR	Draft Layout and Scope of TR on interworking of IETF SIP and SIP with 3GPP profile	Siemens	IMS-CCR-IWIP							<u>NOTED</u> <u>AGREED</u>
N3-020060	9.1	DISCUSSION DOC	Proposed contents for draft TR on interworking of IETF SIP and SIP with 3GPP profile	Siemens	IMS-CCR-IWIP							WITHDRAWN
N3-020061	8	CR	Update Reference to I.363.2	Siemens	CSSPLIT	006		F	29.414	Rel-4	4.3.0	AGREED
N3-020062	9.5	CR	Add GERAN lu mode to scope	Siemens	TEI	007		D	29.414	Rel-5	4.3.0	AGREED
N3-020063	9.5	CR	Add GERAN lu mode to scope	Siemens	TEI	005		D	29.415	Rel-5	4.2.0	AGREED
N3-020064	9.5	CR	Terminology clarifications as requested by TSG GERAN	MCC	TEI	005		D	43.010	Rel-5	4.1.0	REVISED TO 0092
N3-020065	9.5	CR	Terminology clarifications as requested by TSG GERAN	MCC	TEI	001		D	43.045	Rel-5	4.0.0	AGREED
N3-020066	9.5	CR	Terminology clarifications as requested by TSG GERAN	MCC	TEI	001		D	43.046	Rel-5	4.0.0	WITHDRAWN
N3-020067	9.3	DISCUSSION DOC	Decision to use COPS-PR (Resv'd for Wijnen, Bert)	Lucent / IETF	e2e QoS							NOTED
N3-020068	9.3	DISCUSSION DOC	Proposal for reopening the discussion on the protocol selection for the Go interface	Lucent Technologies	e2e QoS							WITHDRAWN
N3-020069	9.3	DISCUSSION DOC	Proposal for the protocols to be used for the Go interface	Lucent Technologies	e2e QoS							WITHDRAWN
N3-020070	9.3	DISCUSSION DOC	Discussion paper on RADIUS and SNMP based approach to Go	Lucent Technologies	e2e QoS							NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020071	6	LS IN	Re. to LS (GP-012792) on data rates for CS data services in UTRAN [R3-020227]	R3								NOTED
N3-020072	6	LS IN	Prefix allocation for IPv6 stateless address autoconfiguration [S2-020326]	S2								NOTED
N3-020073	6	LS IN	requirements for Go interface [S2-020309]	S2								NOTED
N3-020074	6	LS IN	Reply LS on Interworking between 3GPP UE (IPv6 only) and SIP device external to IMS (IPv4 only) [S2-020275]	S2								NOTED
N3-020075	7	CR	Change of associated attribute for 3GPP-NSAPI	Vodafone	GPRS	A031		F	09.61	R97	6.6.0	AGREED
N3-020076	7	CR	Change of associated attribute for 3GPP-NSAPI	Vodafone	GPRS	A032		A	09.61	R98	7.5.0	AGREED
N3-020077	7	CR	Change of associated attribute for 3GPP-NSAPI	Vodafone	GPRS	037		A	29.061	R99	3.8.0	AGREED
N3-020078	7	CR	Change of associated attribute for 3GPP-NSAPI	Vodafone	GPRS	038		A	29.061	Rel-4	4.3.0	AGREED
N3-020079	7	CR	Change of associated attribute for 3GPP-NSAPI	Vodafone	GPRS	039		A	29.061	Rel-5	5.0.0	AGREED
N3-020080	9.3.1	DISCUSSION DOC	Go Interface protocol selection	Vodafone	e2e QoS							NOTED
N3-020081	6	LS IN	Re: to "Liaison Statement on The addition of the H.324 M codec to TS 26.103" [S4-020005]	S4								NOTED
N3-020082	6	LS IN	Mapping of SDP parameters in UMTS QoS parameter [S4-020006]	S4								NOTED
N3-020083	9.4	[CR]	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF			C	23.972	Rel-5		NOTED
N3-020084	9.4	[CR]	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF			C	24.008	Rel-5	5.2.0	NOTED
N3-020085	8	CR	Negotiation of parameter values for facsimile	SIEMENS AG	TEI	073	1	F	27.001	Rel-4	4.6.0	AGREED
N3-020086	8	CR	Negotiation of parameter values for facsimile	SIEMENS AG	TEI	074	1	A	27.001	Rel-5	5.0.0	AGREED
N3-020087	9.4	CR	Service change and fallback for UDI/RDI multimedia calls	Ericsson	SCUDIF	071	3	C	27.001	Rel-5	5.0.0	REVISED TO 0090
N3-020088	9.4	CR	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF	046	2	C	29.007	Rel-5	5.0.0	REVISED TO 0091

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020089	6	LS IN	IMS Charging ID (ICID) is provided to access network [S5-020048 originally to CN1]	S5								NOTED
N3-020090	9.4	CR	Service change and fallback for UDI/RDI multimedia calls	Ericsson	SCUDIF	071	4	C	27.001	Rel-5	5.0.0	AGREED
N3-020091	9.4	CR	Service change and fallback for UDI/RDI multimedia	Ericsson	SCUDIF	046	2	C	29.007	Rel-5	5.0.0	AGREED
N3-020092	9.5	CR	Terminology clarifications as requested by TSG GERAN	MCC	TEI	005	1	D	43.010	Rel-5	4.1.0	AGREED
N3-020093	9.1	DISCUSSION DOC	Interworking between 3GPP Ues and other Ues	Nokia	IMS-CCR-IWIP							POSTPONED TO THURS
N3-020094	9.1	[CR]	Conversational Codecs usage included in TS 29.162	Siemens	IMS-CCR-IWIP				29.162	Rel-5	0.4.0	AGREED
N3-020095	9.1	[CR]	TS 29.162 Update of Reference Architecture.	Siemens	IMS-CCR-IWIP							REVISED TO 0104
N3-020096	9.1	TS	Clean version of TS 29.162	mm02	IMS-CCR-IWIP				29.162	Rel-5	0.5.0	WITHDRAWN BEFORE PRESENTATION
N3-020097	9.2	[CR]	Update former Gi referenc e point in TS 29.163	Siemens	IMS-CCR- IWCS			F	29.163	Rel-5	1.0.0	AGREED
N3-020098	9.2	TS	Clean version of TS 29.163	Vodafone	IMS-CCR- IWCS				29.163	Rel-5		REVISED TO 0115
N3-020099	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI	049	1	B	29.007	Rel-5	5.0.0	AGREED
N3-020100	9.5	CR	Mobile terminated call with single numbering scheme	SIEMENS AG	TEI	075	1	B	27.001	Rel-5	5.0.0	AGREED
N3-020101	9.3	DISCUSSION DOC	Feasibility of Diameter for Go in Release 5	Ericsson								WITHDRAWN
N3-020102	9.3	[CR]	SDP to UMTS QoS Paramter Mapping	H3g	e2e QoS			B	29.208	Rel-5	0.2.0	NOTED
N3-020103	9.3	LS OUT	Procedure for specifying UMTS QoS Parameters per Application	Ericsson								REVISED TO 0105
N3-020104	9.1	DISCUSSION DOC	TS 29.162 Update of Reference Architecture.	Siemens	IMS-CCR-IWIP							AGREED
N3-020105	9.3	LS OUT	Procedure for specifying UMTS QoS Parameters per Application [SA1, SA4, RAN1, RAN2, RAN4 and T1 Co-SA2] <small>attache n3-106</small>	Ericsson								REVISED TO 0119
N3-020106	9.3	DISCUSSION DOC	Procedure for specifying UMTS QoS parameters per application	Ericsson	e2e QoS							REVISED TO 0118

TDoc #	Agenda	Type	Tdoc Title	Source	WI	CR #	Rev	CAT	Spec	Rel	C_Versi on	Status
N3-020107	9.1	TS	Clean version of TS 29.162	mm02	IMS-CCR-IWIP				29.162	Rel-5	0.5.0	REVISED TO 0113
N3-020108	6	LS OUT	requirements for Go interface [to S2, no cc]	CN3								APPROVED
N3-020109	9.3	[CR]	PCF procedure for media authorization	Nokia	e2e QoS				29.207	Rel-5	0.5.0	AGREED
N3-020110	9.3	[CR]	GGSN-initiated PDP context release	Ericsson	e2e QoS				29.208	Rel-5		AGREED
N3-020111	9.3	Other	PDP Context Modification flow	Siemens	e2e QoS							AGREED
N3-020112	9.3	[CR]	29.208 - "QoS signalling flows with SBLP" - (Revised N3-010600)	mm02	e2e QoS				29.208	Rel-5		REVISED TO 0122
N3-020113	9.1	TS	Clean version of TS 29.162	mm02	IMS-CCR-IWIP				29.162	Rel-5	0.6.0	AGREED
N3-020114	9.1	TR	TR on interworking between SIP with 3GPP profile and external SIP	Siemens	IMS-CCR-IWIP							NOTED
N3-020115	9.2	TS	Clean version of TS 29.163	Vodafone	IMS-CCR-IWCS				29.163	Rel-5	1.2.0	AGREED
N3-020116	9.2	WID	Updated WID for Interworking between IM CN subsystem and CS networks	Vodafone	IMS-CCR-IWCS					Rel-5		AGREED
N3-020117	9.1	WID	Updated WID for Interworking between IM CN subsystem and IP networks	mm02	IMS-CCR-IWIP					Rel-5		AGREED
N3-020118	9.3	DISCUSSION DOC	Procedure for specifying UMTS QoS parameters per application	Ericsson	e2e QoS							AGREED
N3-020119	9.3	LS OUT	Procedure for specifying UMTS QoS Parameters per Application	Ericsson	e2e QoS							APPROVED
N3-020120	9.2	TS	Clean version of TS 29.207	Lucent					29.207	Rel-5	0.6.0	AGREED
N3-020121	9.3	TS	Clean version of TS 29.208	Lucent					29.208	Rel-5	0.3.0	AGREED
N3-020122	9.3	[CR]	29.208 - "QoS signalling flows with SBLP" - (Revised N3-010600)	mm02	e2e QoS				29.208	Rel-5		AGREED

Annex C: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG3 members should be aware of.

3GPP email lists:

To receive information about CN3 issues, all delegates and other interested parties **MUST** register for email list **3GPP_TSG_CN_WG3**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

subscribe 3GPP_TSG_CN_WG3 YourFirstName YourLastName

There are many other 3GPP email lists that may also be of interest. Go to <http://www.3gpp.org/e-mail.htm> for further information.

If at any time you would like to confirm which lists you are currently a member of, just sent a message to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

QUERY *

Email archives:

All 3GPP lists have an associated archive of every email sent via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest way to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the **3GPP_TSG_CN_WG3** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

search * in 3GPP_TSG_CN_WG3 since Jan 1999

As well as a list of emails sent, you receive instructions about how to retrieve the emails.

Some 3GPP archives are also available via a new user-friendly WWW interface. For CN3, go to:

http://list.3gpp.org/archives/3gpp_tsg_cn_wg3.html

Meeting calendar:

The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: <http://www.3gpp.org/Meetings.htm>

Documents on the server:

All documents submitted to CN3 meetings will be made available on the 3GPP document server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_CN/WG3/

e.g. the documents for CN3 meeting #8 can be found at:

ftp://ftp.3gpp.org/TSG_CN/WG3_interworking/TSGN3_08/Tdocs/

History

Document History	
1 st February 2002	Draft v0.0.1 distributed to CN3 chairman for comments
5 th February 2002	<p>DRAFT v1.0.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to:</p> <p style="padding-left: 40px;">David Boswarthick, 3GPP TSG-CN3 Support MCC - ETSI Secretariat Tel :+33 (0)4 92 94 42 78 e-mail: <i> david.boswarthick@ETSI.fr</i></p> <p>A deadline of 4 weeks was given to the CN3 delegates for e-mail comments on the draft report.</p> <p style="text-align: center;">Comments back by 19th February 2002</p>
2002	Updated DRAFT v2.0.0 placed to the server
	N3-020xyz[v2.1.0] VARIOUS comments made by CN3 at the beginning of CN3#21 meeting. Updated to N3-020xyz and placed to the server as v3.0.0.