

Third Generation Partnership Project

DRAFT MEETING REPORT v2.0.0

**3GPP TSG-CN3
Meeting # 18**

**Dresden, Germany.
9th - 13th July 2001**



Hosted by

D2 - Mannesmann - Vodafone

Chairman: Norbert Klehn, Siemens AG. norbert.klehn@icn.siemens.de
Vice Chairman: None.
MCC Support: David Boswarthick, ETSI MCC. david.boswarthick@etsi.fr

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1 Opening of the Meeting

The 18th CN3 meeting took place from 9th - 13th July in Dresden, Germany.

Mr Norbert Klehn welcomed the CN3 delegates to Dresden on behalf of the hosts, and explained the logistical details for the rest of the week.

A highly enjoyable social event was kindly organised by the hosts on the Wed. evening in a local restaurant.

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 9th. He set the objectives for the meeting as follows:

?? **Start work on End to End QoS [Worksplrit]**

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

?? **Examine in detail the Rel-5 Schedule [including IETF and IUT-T dependencies]**

2 Approval of the Agenda

N3-010250: CN3#18 Draft Meeting Agenda. Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#18 Meeting.

DISCUSSION: Norbert introduced the agenda document and outlined the schedule of the meeting for the rest of the week. There were a number of Joint Sessions during the week:-

Tues, July 10 18:00 - End to end QoS Worksplrit: CN1 + CN3 + CN4

Wed, July 11 11:00 - 23.218: CN1 + any other interested WGs

16:00 - 24.228: CN1 + any other interested WGs

RESULT: The Agenda was **APPROVED**.

3 Registration of documents

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

ftp://ftp.3gpp.org/tsg_cn/WG3_interworking/TSGN3_18_Dresden/

N3-010264: Allocation of documents to Agenda items for CN3#18 (before meeting). Presented by CN3 Chairman.

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

DISCUSSION: *Norbert gave a reminder to the CN3 delegates that contributions to CN3 meetings should be made available at least 4 working days in advance of the meeting in order to allow all delegates sufficient time to study them.*

All delegates are requested to make good efforts to have the documents available by this time.

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

N3-010300: Updated Allocation of documents to Agenda items for CN3#18 (09:00 day1). Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items considering the new documents received at the beginning of the day1 session.

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

N3-010338: Updated Allocation of documents to Agenda items for CN3#18 (EoB day5). Presented by CN3 Chairman.

CONTENT: Shows the final allocation of meeting documents to agenda items as of the end of the meeting.

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

4 Reports

4.1 CN3#17 Meeting Report, (Puerto Rico)

N3-010251: **CN3#17 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#17 that was held in Puerto Rico.

The CN3#17 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**

Review of action items from CN3#17:

| | FOR | ACTION | DELIVERY | RESULTS | STATUS |
|----------|-------------------|---|---------------|-----------------------|--------|
| N3_16_04 | All | check the removal of interworking between IMS and CS networks for CS multimedia services [for basic voice calls] on 24.228 as result of LS in N3-010116 | before CN3#17 | Responsibility of CN1 | CLOSED |
| N3_17_01 | David, MCC | inform the rapporteur of 23.002 of the mismatch in references related to 23.054 | before CN3#18 | | DONE |
| N3_17_02 | David, MCC | feed back the changes in cn3 specifications list to the 3GPP specifications manager | before CN3#18 | | DONE |
| N3_17_03 | David, MCC | feed back the changes to the 3GPP project plan to Alain Sultan | before CN3#18 | | DONE |
| N3_17_04 | Thomas, Belling | check on the use of the term Fp UP with RAN3 | before CN3#18 | IU FP is used in RAN3 | DONE |
| N3_17_05 | David, MCC | place the draft version of 29.162 to the 3GPP server | before CN3#18 | | DONE |
| N3_17_06 | rapporteur 29.162 | check on the status of the interworking SIP to H.323 IETF Draft and report back to CN3 | before CN3#18 | | DONE |
| N3_17_07 | David, MCC | place the draft version of 29.163 to the 3GPP server | before CN3#18 | | DONE |
| N3_17_08 | David, MCC | request the TS number 29.207 for the new end to end QoS specification | before CN3#18 | | DONE |

N3-010252: **Status Report from CN3 to CN Plenary.** Presented by CN3 Chair.

CONTENT: Contains the CN3 status report, as presented by the CN3 chair to CN#12 meeting.

RESULT: The document was **NOTED**

4.2 Reports from Last CN Meeting

N3-010253: **Brief notice from CN#12 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#12.

RESULT: The document was **NOTED**

N3-010254: **NP#12 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report from the NP#12 meeting.

RESULT: The document was **NOTED**

N3-010255: **Presentation of CN to SA#12 Meeting.** Presented by David Boswarthick, MCC.

CONTENT: Contains the slide presentation of the main results from CN#12 meeting as presented to SA by the CN chair.

RESULT: The document was **NOTED**

4.3 Reports from Other Groups

N3-010256: IETF Status Report. Presented by CN3 Chair.

CONTENT: This document highlights the main areas of collaboration, the results of the last three months and also some recommendations derived from this experience.

DISCUSSION: Rapporteurs are asked to consider the IETF dependencies of their specifications. It was agreed to compile a list of the IETF dependencies in CN3 and forward this list to the IETF - 3GPP coordination group. A similar approach was also used for the ITU-T dependencies and a list was compiled for the ITU-T ad hoc group.

Comments to content:

Main dependencies on RFC 2524 are for TS24.228 hence within CN1.

9. SIP - ISUP interworking is not required to be tracked.

10. SIP-H.232 Interworking. (The draft-agrawal-sip-h323-interworking-reqs-02.txt).

11. ISUP - SIP mapping. (The draft-ietf-sip-isup-header-00.txt) is not required to be tracked.

3. Integration of resource management and SIP. This document (draft-sip-manyfolks-resource-00.txt) - ***This will need to be tracked by CN3 as it has impacts on e-2-e QoS.***

5. SIP extensions for media authorization (draft-ietf-sip-call-auth-00.txt). ***This will need to be tracked by CN3 as it has impacts on e-2-e QoS.***

NEW. RTP transport of AMR codec (draft-ietf-avt-rpt-amr-10.txt). ***This will need to be tracked by CN3 as it has impacts on e-2-e QoS.***

NEW M3Ua for BICC interworking (draft-ietf-sigtran-M3ua-06.txt). ***This will need to be tracked by CN3 as it has impacts on e-2-e QoS.***

📢 [ACTION N3_18_01] - Norbert will inform the 3GPP IETF coordinator of these changes to CN3's IETF dependencies

Also the ITU-T dependencies were discussed

SIP - H.323 interworking (work it being progressed in parallel by 3GPP – hence left open for the moment).

RESULT: The document was **DISCUSSED**

5 IPR Disclosures

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

The delegates were invited:

?? to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups

?? to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms

6 Liaison Statements

6.1 Received Liaison Statements

N3-010257: **LS IN from TSG GERAN on terminology clarifications [GP-011437].** Presented by David Sanders of Vodafone.

CONTENT: In this document GERAN share some concerns regarding the possible confusion that can arise from the new terminology adopted in the 3GPP specifications in order to differentiate between networks, Radio Access Technologies (RAT) and modes of operation.

There is a one to one mapping of RATs and RANs: the GERAN is based on TDMA, whereas the UTRAN is based on TDD and FDD. ***TSG GERAN would prefer referring to the RANs, rather than to the RATs, unless strictly necessary.***

TSG GERAN is particularly concerned with the usage of the terms 3G, UMTS System and Iu mode as synonyms, as well as their use normally not including the GERAN. The terms 3G and Iu mode are common for both RANs and in certain occasions their applicability may need to be restricted to one RAN; in those cases the combinations of terms ***GERAN Iu mode and UTRAN Iu mode should be used. Similarly, the terms A/Gb mode and GERAN Iu mode can be used to discriminate between the different modes within the GERAN.***

DISCUSSION: CN Plenary has seen and approved this proposal, and CN3 rapporteurs are asked to review their specifications and provide corrective CRs to align the terminology. These CRs may be sent to the CN3 email list for discussion / comments.

NOTE These CRs are required for REL-5 ONLY.

[ACTION N3_18_02] - Rapporteurs to update their specifications following the GERAN proposal on terminology and provide CRs for CN3#19 meeting.

RESULT: The document was **NOTED**.

N3-010265: **LS IN from CN1 on IM Service Control or ISC. [N1-010888].** Presented by David of MCC

CONTENT: The name SIP+ is considered confusing, particularly given its previous use for the SIP-T work within the IETF. CN1-4 suggests an alternative name be accepted for this interface: IM Service Control or ISC. Note that this is not suggested as the name of the protocol to be used over this interface, merely for the interface itself. CN1-4 requests that an appropriate alternative name be adopted instead of "SIP+" for this interface within TS 23.228. ISC is one such possible alternative.

DISCUSSION: It is CN3's understanding that ISC is the interface over which a "SIP+ like" protocol will run. The response to this CR from SA2 is provided in N3-010297.

RESULT: The document was **NOTED**.

N3-010297: **LS IN from SA2 on ISC [S 2-011685].**

CONTENT: In this liaison SA2 agree that the term ISC will be used at the interface reference point

DISCUSSION: More relevant to CN1 [who are responsible for the ISC interface].

RESULT: The document was **NOTED**.

N3-010267: **LS IN from CN4 on lu UP version negotiation [N4-010695].** Presented by Thomas Belling of Siemens.

CONTENT: CN4 informs RAN3 and CN3 they have accepted the CRs N4-010683 and N4-010691. The related discussion document N4-010616, which was noted, describes the motivation of these CRs. These documents address the interaction between the out-of-band service negotiation, the FP UP version indication in RANAP and H.248 (Mc Interface), and the in-band FP UP version negotiation. The documents aim to clarify the interaction of these entities. CN4 assumes that the list of UP versions passed to the RNC in RAB parameters contains only the versions that provide the services that the MSC requires in the UP. The RNC may use only these UP versions in the version negotiation at UP level.

CN4 asks CN3 group to consider related changes to TS 29.415. In particular, CN4 would like to propose to restrict the in-band Nb UP version negotiation to versions selected by the MSC-server and signalled over Mc.

DISCUSSION: It is not considered that this will have impact on the CN3 specification. However Thomas Belling will monitor the CRs in RAN3 and provide CRs to CN3 specifications as required.

[ACTION N3_18_03] - Thomas Belling to monitor the RAN3 Work on lu UP version negotiation, provide CR to 29.415 as required.

RESULT: The document was **NOTED.**

N3-010320: **LS IN from RAN3 on Answer to LS on lu UP version negotiation [R3-012085].** Presented by Thomas Belling of *Siemens*.

CONTENT: RAN3 informs CN4 that they have already conditionally approved a set of CRs containing clarifying statements with regards to the lu UP version indication as described by CN4.

RESULT: The document was **NOTED.**

N3-010268: **LS IN from SA2 containing WI on the End-to-End QoS Architecture for Release 5 [S2-011098].**

RESULT: The document was **NOTED.**

N3-010269: **LS IN from Joint CN1-4 meeting on the IM Call Transfer service [N1-010890].**

CONTENT: The joint CN1-4 groups have reviewed proposed message flows for an IM Call Transfer service to be included in TS 24.228. It was noted that this service is similar to the Explicit Call Transfer service in GSM (TS 23.091). Concerns were raised that there could be significant fraud problems with this service. Concerns were also raised that the charging principles for this service are not known.

Guidance is sought from SA3 and SA5 on security and charging.

DISCUSSION: The responses from SA3 and SA5 are provided in N3-010266 and N3-010291.

RESULT: The document was **NOTED.**

N3-010266: **LS IN from SA3 on the IM Call Transfer service [S3-010292].**

CONTENT: TSG-SA WG3 agreed that there is a need to review this service from a security perspective. SA3 also seek more guidance from CN1 on this issue

RESULT: The document was **NOTED.**

N3-010291: **LS IN from SA5 on the IM Call Transfer service [S5-010324].**

CONTENT: SA5 acknowledge the LS from N1 and will reply in July

RESULT: The document was **NOTED.**

N3-010298: LS IN from SA2 on Future proof specification of the Go interface [S2-011677].
Presented by David Sanders of Vodafone.

CONTENT: SA2 has been discussing the possible architectural split between the PCF (Policy Control Function) and the P-CSCF. The conclusion has been that in Release 5, there will be no standardised open interface between the PCF and the P-CSCF. However, a split PCF – P-CSCF architecture should not be prevented from inclusion in future releases.

In order to avoid extensive redesign if a split PCF – P-CSCF architecture is adopted in the future, SA2 asks CN3 to take this potential future architecture into account when specifying the Go interface.

DISCUSSION: CN3 understand the requirement, and will consider it when specifying the Go interface.

RESULT: The document was **NOTED**.

N3-010310: LS IN from T2 on Transmission of user identity from a GGSN to MMS Relay/Server [T2-010606]. Presented by Juha Räsänen of Nokia.

CONTENT: T2 has detected a problem in the definitions for the Gi interface. At the moment there is no standardised solution for a GGSN to deliver a mobile user's identity forward to e.g. a WAP Gateway or a MMS Relay/Server. This issue should be resolved as soon as possible, preferably using existing protocols to enhance the Gi interface.

DISCUSSION: This LS addresses the problem that CN3 are already attempting to resolve with the RADIUS solution.

It was agreed to send back a LS to T2 stating that CN3 are aware of the problem, and expecting to complete the solution before CN#13. The LS is contained in N3-010324.

RESULT: The document was **NOTED**.

N3-010324: LS OUT to T2 cc SA2 on Standard method for information delivery between GPRS and an external PDN using RADIUS [Re. T2-010606]. Presented by *Graham Heaton* of *RTS Wireless International*.

CONTENT: CN3 are aware of the problem information delivery. This LS describes the proposed solution that is presently being developed by CN3

DISCUSSION: Graham will present this LS in the August SA2 meeting

RESULT: The document was **APPROVED**.

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.

7.1 CS Bearers

NOTE: Daisuke Yokata [Lucent] provided some information on the discussion of SDU size 33.6kbit/s for transparent data within TS 23.910.

NTT DoCoMo have provided the information by e-mail indication that the issue of 33.6kbit/s SDU size has now been moved from the GSM association to 3GPP TSG-T WG1 in their specification TS 34.108. This is strange for CN3 because TS 34.108 is a UE testing spec. There are the following possibilities

- to ask T1 to define a value (if any company wants to continue with this service)
- to ask SA1 to delete this service (if no company wants to continue with this service)
- to leave it as it is or
- to add a note in our specification saying "see TS 34.108".

There was no preference in CN3 how to continue. It was agreed that Norbert should contact the T1 Chair to discuss this issue.

N3-010271: **CR061 to 27.001 v3.9.0 " Removal of erroneous IR value "**. Presented by *Rune Werner Wiik of Ericsson*.

CONTENT: Contains **(CAT F)** CR that changes the default value of IT from "not used" to "16 kbit/s" and the IR attribute values "4 kbit/s" and "not-used" are removed.

RESULT: The document was **AGREED**.

? CORRESPONDING CR ?

N3-010270: **CR062 to 27.001 v4.3.0 " Removal of erroneous IR value "**. Presented by *Rune Werner Wiik of Ericsson*.

CONTENT: Contains **(CAT A)** CR corresponding to 0271.

DISCUSSION: CR was made to wrong version of the specification.

RESULT: The document was **REVISED to N3-010304**.

? REVISED ?

N3-010304: **CR062r1 to 27.001 v4.4.0 " Removal of erroneous IR value "**. Presented by *Rune Werner Wiik of Ericsson*.

RESULT: The document was **AGREED**.

N3-010294: **CR065 to 27.001 v3.9.0 " Negotiation of Rate adaptation/Other rate adaptation "**. Presented by *Rune Werner Wiik of Ericsson*.

CONTENT: Contains **(CAT F)** CR that adds a note to Table B.4f covers now FNUR = 64 kbit/s. Note 3 has been enhanced to cover 64 kbit/s as well.

DISCUSSION: Norbert believes that the modification to Note 3 is incorrect and cannot be included. Also in note 6 the CE = T not NT.

RESULT: The document was **REVISED to N3-010305**.

? REVISED ?

N3-010305: **CR065r1 to 27.001 v3.9.0 " Negotiation of Rate adaptation/Other rate adaptation "**. Presented by *Rune Werner Wiik of Ericsson*.

RESULT: The document was **AGREED**

? CORRESPONDING CR ?

N3-010293: **CR066 to 27.001 v4.4.0 " Negotiation of Rate adaptation/Other rate adaptation "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that adds a note to Table B.4f covers now FNUR = 64 kbit/s. Note 3 has been enhanced to cover 64 kbit/s as well.
DISCUSSION: Same comments apply as in N3-010294
RESULT: The document was **REVISED to N3-010306**

? **REVISED?**

N3-010306 **CR066r1 to 27.001 v4.4.0 " Negotiation of Rate adaptation/Other rate adaptation "**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that adds a note to Table B.4f covers now FNUR = 64 kbit/s. Note 3 has been enhanced to cover 64 kbit/s as well.
DISCUSSION: Same comments apply as in N3-010294
RESULT: The document was **AGREED**

N3-010272: **CR063 to 27.001 v4.4.0 " Removal of erroneous information in B.1.3.1.6."**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT F)** CR that removes ITC value RDI in B.1.3.1.6. Removed attribute value "not-used" for IR as this value is not defined in TS 24.008.
DISCUSSION: Decided that the change is also required for R99 hence this CR becomes a CAT A.
RESULT: The document was **REVISED to N3-010307**.

? **REVISED?**

N3-010307: **CR063r1 to 27.001 v4.4.0 " Removal of erroneous information in B.1.3.1.6."**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT A)** CR that removes ITC value RDI in B.1.3.1.6. Removed attribute value "not-used" for IR as this value is not defined in TS 24.008.
RESULT: The document was **AGREED**.

? **CORRESPONDING CR?**

N3-010308: **CR067 to 27.001 v3.9.0 " Removal of erroneous information in B.1.3.1.6."**. Presented by *Rune Werner Wiik of Ericsson*.
CONTENT: Contains **(CAT F)** CR that removes ITC value RDI in B.1.3.1.6. Removed attribute value "not-used" for IR as this value is not defined in TS 24.008.
RESULT: The document was **AGREED**.

7.2 Multimedia

No Input to this agenda item.

7.3 GPRS

No Input to this agenda item.

7.4 Technical Enhancements & Improvements (TEI)

No Input to this agenda item.

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.

8.1 RT Facsimile [FAX-RT]

~~✂~~ **CN3 consider their work to this Work Item as 100% Complete for Rel-4. The exercise of removing FAX NT for GSM for Rel-4 is also considered complete.**

No contributions to this agenda item.

8.2 Global Text telephony [GTT-IW]

~~✂~~ **STATUS of GTT-IW - CN3 consider their work to this Work Item as 100% Complete (for CN3) - Existing solution has no requirements for CN3**

No contributions to this agenda item.

8.3 Bearer Independent Circuit-switched Core Network [CSSPLIT]

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

N3-010289: CR 001to 29.415 v4.0.0 " Clarification on FQC handling and alignment with TS 25.415". Presented by *Thomas Belling of Siemens*.

CONTENT: Contains (**CAT F**) CR that aligns 29.415 with TS 29.232 regarding "delivery of erroneous SDUs" property and with TS 25.415 regarding upper layer SAP.

DISCUSSION: David Sanders commented on some errors in header sheet (impact on CN) and minor spelling in text. Also there is no need to include sections that are not modified by the change.

RESULT: The document was **REVISED to N3-010302**.

? **REVISED?**

N3-010302: CR 001r1to 29.415 v4.0.0 " Clarification on FQC handling and alignment with TS 25.415". Presented by *Thomas Belling of Siemens*.

RESULT: The document was **AGREED**.

N3-010290: Discussion document on Enhancements on IP Transport on the Nb interface to support MPLS. Presented by *Thomas Belling of Siemens*.

CONTENT: This contribution aims to highlight certain problems that arise if the IP transport on the Nb interface and IPBCP, (as defined in TS 29.414) is combined with MPLS. An improved use of IPBCP is suggested as a possible solution and the creation of a new related work item is proposed.

DISCUSSION: Clarification: MPLS layer is below the IP layer (below layer 2). David Sanders [Vodafone] asked if this will have an effect on RAN3? Thomas thinks not, but there may be some similar work.

Laurent Andriantsiferana [Cisco], asked why one MPLS path is used between all IP interfaces? Thomas replied that it is a question of 'unknown peers' requiring MPLS paths from one IP interface to all other IP interfaces. Also MPLS paths are uni-directional and the bi-directional paths are made by combining uni-directional MPLS paths.

Thomas will seek additional support for this work item, and provide a draft either to this meeting or CN3#19.

RESULT: The document was **NOTED**.

N3-010295: **CR003 to 29.414 v4.1.0 " Addition of media type "data".** Presented by *Rune Werner Wiik of Ericsson.*

CONTENT: Contains **(CAT F)** CR that adds Media type ""data" to section 6.3.3.4.

DISCUSSION: Thomas Belling [Siemens] objected to this change as it stands as it adds confusion and would interfere with MIME registration. It is possible to transport all media types using the codepoint audio. In this case the payload type is described by the lu framing protocol. One solution would be to add a simple note to this section.

Thomas and Rune took this offline and came up with a modified solution.

RESULT: The document was **REVISED to N3-010303.**

? **REVISED?**

N3-010303: **CR003r1 to 29.414 v4.1.0 " Addition of media type "data".** Presented by *Rune Werner Wiik of Ericsson.*

CONTENT: Contains **(CAT F)** CR that adds Media type ""data" to section 6.3.3.4.

DISCUSSION: Rune will provide the CR to CN3 e-mail exploder next week for approval until 1st August 2001.

RESULT: The document was **put on e-mail approval until 1st August**

 **[ACTION N3_18_04] - Rune to distribute the CR003r1 to 29.414 v4.1.0 on " Addition of media type "data" to CN3 email for comments/approval**

? **REVISED?**

N3-010341: **CR003r2 to 29.414 v4.1.0 " Addition of media type "data".**

DISCUSSION: Following comments and modifications during the approval e-mail phase, N3-010303 was revised to N3-010341 – and approved

RESULT: The document was **APPROVED**

8.4 T.E.I for Rel-4.

N3-010277: **Standard method for information delivery between GPRS and external PDN using RADIUS.** Presented by *Juha Räsänen of Nokia.*

CONTENT: In this document Nokia proposes to clarify the use of RADIUS protocol in TS 29.061 in order to provide the mapping on the Gi interface to e.g. a WAP Gateway or a MMS Relay/Server.

DISCUSSION: Clarification from Laurent [Cisco] - It should be made clear in the contribution that RADIUS is used ONLY in the NON-TRANSPARENT mode. If there is no PPP we cannot use RADIUS. This is the case in TRANSPARENT mode.

Question from Constance Guilleray [FT] - why in section 3.1 do we have the restriction that "all the other attributes in the received packets are ignored"? Juha could not provide an reason for this restriction and suggested modifying the text.

Nigel Holland [BT] asked why IPv4. Juha replied that this is a restriction from RADIUS

Following the presentation of all documents relating to this issue it was agreed to update the CR and then have an offline discussion between interested parties to discuss the details of the CR.

RESULT: The document was **NOTED.**

N3-010278: **CR021 to 29.061 v4.1.0 " Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS.** Presented by *Juha Räsänen of Nokia.*

CONTENT: Contains **(CAT B)** CR that proposes to use RADIUS Accounting to provide the MSISDN/IP address mapping on Gi interface (to e.g. a WAP Gateway or a MMS Relay/Server).

DISCUSSION: Following the discussion of the other related documents it was agreed to revise this CR to incorporate all the comments

RESULT: The document was **REVISED to N3-010309**.

? **REVISED?**

N3-010309: **CR021r1 to 29.061 v4.1.0 " Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS.**

DISCUSSION: The contents of this document were merged with the contents of 0316 and presented in N3-010323.

RESULT: The document was **WITHDRAWN**.

N3-010316: **Discussion document on Definition of RADIUS attributes.**

DISCUSSION: The contents of this document were merged with the contents of N3-010309 and presented in N3-010323.

RESULT: The document was **WITHDRAWN**.

N3-010323: **CR021r1 to 29.061 v4.1.0 " Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS.** Presented by *Juha Räsänen of Nokia*.

CONTENT: Contains **(CAT F)** CR that proposes to use RADIUS Accounting to provide the MSISDN/IP address mapping on Gi interface (to e.g. a WAP Gateway or a MMS Relay/Server).

DISCUSSION: This document is a combination of the earlier contributions from Nokia and Cisco.

Laurent [Cisco] mentioned that RADIUS accounting 'may' be used to do charging, and the restricting text should be removed from text.

Graham Heaton supported having this Rel-4 CR extended back to R97. Laurent added that 'Charging characteristics' is not available in R97 and R98 and the CR will need to be modified.

Requested to delete the example of X.25 in 'Framed protocols'. Leave only generic text.

It was clarified that sending the authentication and accounting information to separate servers is possible.

A note will be added to the table stating that the Confirmation of the PDP context can be sent before receiving the accounting information.

It was agreed to revise this CR to reflect the above comments and then distribute it via e-mail next week. The Rel-4 CR will be open for discussion and approval until 1st Aug 2001.

Once the Rel-4 CR has been agreed, the corresponding CRs to earlier releases will also be distributed by e-mail for approval. The approval period of the corresponding CRs will be until 1st of September.

It is expected this topic will be discussed internally within companies, and there is no requirement to liaise with other CN WGs.

RESULT: The document was **REVISED to N3-010333**.

? **REVISED?**

N3-010333: **Rev CR021r2 to 29.061 v4.1.0 " Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS.** Presented by *Juha Räsänen of Nokia*.

CONTENT: Contains **(CAT F)** CR that proposes to use RADIUS Accounting to provide the MSISDN/IP address mapping on Gi interface (to e.g. a WAP Gateway or a MMS Relay/Server).

RESULT: The document was **REVISED to 0340**

? **REVISED?**

N3-010340: Rev CR021r2 to 29.061 v4.1.0 " Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS. Presented by *Juha Räsänen* of *Nokia*.

RESULT: The document was put on **e-mail approval until 1st Aug 2001**. After approval the remaining CRs against former releases (back to R97) will be provided and put **on e-mail approval until 1st of September**.



[ACTION N3_18_05] – Juha Räsänen to distribute the CR021r2 to 29.061 v4.1.0 " on RADIUS to CN3 email for comments/approval

N3-010296: **Further considerations for standardising information delivery between GPRS and an external PDN using RADIUS.** Presented by *David Sanders* of *Vodafone*.

CONTENT: This contribution indicates a number of areas for enhancement in the Nokia contribution [N3-010277] and proposes a set of 3GPP parameters for use as RADIUS attributes.

DISCUSSION: Vodafone do not wish to specify which attributes are to be sent to the RADIUS server. It is only the content of those attributes that are sent that need to be standardized.

Graham Heaton supported both contributions but suggested modifying the CR and agreeing it this week to avoid delay. David [Vodafone] thought it would be difficult to finalize this work that quickly. Juha suggested sending the CR out on email approval. Rune [Ericsson] thought that this was inappropriate to have email discussions over the holiday period.

It was agreed to progress as far as possible with the CR to 29.061 this week and if it cannot be finalized it will be sent to email for comments approval.

Also the question was raised as to where the RADIUS modifications would be added to 29.061 (new chapter of integrated in existing text).

RESULT: The document was **NOTED**. [See N3-010323].

N3-010299: **Comments on proposed standard method for information delivery between GPRS and external PDN using RADIUS.** Presented by *Norbert Klehn* of *Siemens*.

CONTENT: In this document Siemens indicate their support for Nokia's proposal on RADIUS [N3-010277 and N3-010278] and provide some more comments.

DISCUSSION: The document proposes making a change to earlier releases (at least for R99). This change is a CORRECTION that avoids different implementation. A number of delegates insisted it is a new feature [however new features are only possible for Rel-5].

Laurent [Cisco] mentioned that it may be possible to split this issue into 2 parts, correction [for R97>], and new feature [for Rel-5]

Johanna Wild [Motorola] reminded that a change to the transparent case may have an impact on the terminals and we should consider this before agreeing a change. However, it was clarified that terminals are not impacted because only the non-transparent case is applicable.

RESULT: The document was **NOTED**. [See N3-010323]

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](#)

N3-010280: **Discussion Document on Transcoding for IMS to IP network session.** Presented by *Nigel Holland of BT.*

CONTENT: The MGW is already tasked with providing AMR to G.711 transcoding for the IM to PSTN interworking case, and as such could also provide this function for IM to IP interworking case, when transcoding is required. This document proposes to add text to 29.162 and use the message flows detailed in Annex A as a basis for further study.

DISCUSSION: Miguel [Ericsson], agrees that this transcoding is required, but this functionality does not presently exist in the P-CSCF. In addition SA2 have not yet specified this architectural requirement. Thomas [Siemens] supported this view.

It is believed that a related proposal has been discussed in SA2, but no conclusion was agreed.

Johanna [Motorola] provided some text from TS 23.821 that may suggest the MGCF would control this transcoding.

Miguel said there are several entities that could control the transcoding, and we need clear guidelines from SA2. Johanna had concerns on obtaining a reply from SA2, in a reasonable delay.

It was agreed that transcoding is required, but the P-CSCF is not necessarily the correct entity to do the control. A LS will be sent to SA2 [N3-010322] requesting guidance.

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

N3-010322: **LS OUT to SA2 on IMS to IP Networks Interworking Functions.** Presented by *Nigel Holland of BT.*

CONTENT: In this LS CN3 asks SA2 to provide guidance on the network entities involved in providing interworking of the control plane messages (i.e. SIP to H.323) and possibly user plane for IMS to IP network sessions. TSG CN WG3 also asks SA2 for a confirmation that user plane transcoding (possible transcoding of AMR to other codecs) should be addressed.

DISCUSSION: David Sanders proposed some more specific text to the ACTIONS section. Also the Dresden meeting reference was deleted.

RESULT: The document was **REVISED to N3-010330.**

? **REVISED?**

N3-010330: **Rev. LS OUT to SA2 on IMS to IP Networks Interworking Functions.**

RESULT: The document was **APPROVED.**

N3-010282: **Discussion document on H.323 and SIP Interworking.** Presented by *Nigel Holland of BT.*

CONTENT: This document starts to detail some of the H.323 mandatory capabilities such as codecs supported, in order to understand and define the interworking capabilities.

DISCUSSION: Miguel [Ericsson], and Thomas [Siemens] had some concerns over the text, G.72x codecs have to be optional.

Re-wording of the text was provided during an offline-session.

RESULT: The document was **REVISED to N3-010331.**

? **REVISED?**

N3-010331: Discussion document on H.323 and SIP Interworking.

DISCUSSION: The proposed changes were agreed to be included in TS 29.162. New version of TS 29.162 will be provided to next meeting.

RESULT: The document was **AGREED**.

N3-010332: WID for Interworking between IM Subsystems and CS. Presented by *CN3 chair*.

CONTENT: Provides the WID as updated in-line to reflect the changed dates.

DISCUSSION: It was agreed to move the expected delivery of 29.162 back to March 2002.

RESULT: The document was **AGREED**

N3-010292: Discussion document on Transport Plane Interworking for the Gi interface. Presented by *Johanna Wild of Motorola*.

CONTENT: This document addresses issues concerning the transport plane interworking between an IPv6 based IMS and an IPv4 based environment. A wide range of techniques has been identified and implemented to allow for the co-existence of IPv4 and IPv6 networks and facilitate the transition to an IPv6 based Internet [5]. These can be grouped in 3 categories

?? dual-stack techniques, to allow IPv4 and IPv6 to co-exist in the same devices and networks

?? tunnelling techniques, to avoid order dependencies when upgrading hosts, routers, or regions and

?? translation techniques, to allow IPv6-only devices to communicate with IPv4 only devices and can be expected to be all used, alone or in combination.

DISCUSSION: There was an agreement to address the issue of interworking towards IPv4 external networks in 29.162, but only the IMS scenario SIP / IPv6 to H.323 / IPv4 should be considered

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](#)

N3-010279: Extending the scope of 29.163 to include SIP-BICC interworking. Presented by *Miguel-Angel Garcia-Martin of Ericsson*.

CONTENT: In this contribution Ericsson proposes to change the scope of 3GPP TS 29.163 to cover the interworking between SIP and BICC, Bearer Independent Call Control.

BICC provides a means of supporting narrowband ISDN services across ATM and IP backbone networks. The BICC call control protocol is based on N-ISUP signalling and it is designed to be bearer independent.

The SIP-ISUP interworking might be achieved by defining the interworking between SIP and BICC and utilizing the already existing BICC-ISUP interworking defined by ITU-T. The proposed new SIP-BICC interworking will give as well the SIP-ISUP interworking.

DISCUSSION: Thomas Belling [Siemens] asked what network entities would perform this interworking. Miguel answered that the interworking would still be done in the MGCF (as is the case today). Meaning the MGCF will support BICC and/or ISUP.

The document states ISUP is a subset of BICC, Norbert [Siemens] asked if we must interwork SIP to ISUP via BICC or we can interwork directly to ISUP. Miguel confirmed that we must use BICC to interwork between SIP and ISUP. This was seen as non-optimal by some delegates.

Thomas Belling, [Siemens] prefers ISUP to SIP interworking to BICC interworking as it is already well implemented in the fixed network, and also the work is more mature than the IETF work on BICC-SIP interworking. The IETF drafts are not yet well advanced. In addition the ITU-T work is not mature and will add additional delays to the 3GPP work. Alf [Ericsson] believes the ITU-T work on BICC-SIP interworking will be completed in March 2002. *This implies 3GPP will have to postpone interworking IMS to CS until June 2002.*

Alf [Ericsson] added that we have to do the BICC-SIP interworking already for the CS-IMS interconnection so we may as well base the work for SIP-ISUP interworking on BICC.

David Sanders [Vodafone] - supported not awaiting for ITU-T to complete the work, but CN3 should progress the work as far as possible whilst monitoring the work in ITU-T to avoid overlap and diverse solutions. Vodafone also supported the Ericsson proposal although it is suspected that changes will also be required to signalling flows in 24.228 and 24.229.

Thomas Belling did not want to STOP work on the ISUP - SIP interworking based on IETF drafts, but this does not prevent us from also looking at the SIP-BICC-ISUP work based on ITU-T. Nigel Holland [BT] supported continuing with the SIP-ISUP solution to avoid delays to the 3GPP work.

Juha [Nokia] when do we want SIP-BICC interworking, and when must we decide on an exact model. Ericsson want this included in Rel-5 and their contribution only proposes a basic model to show how we can get SIP-BICC-ISUP interworking based on SIP-BICC.

Conclusions: IETF work on ISUP-SIP interworking [one step] is for the moment well advanced, although it is only informative. 3GPP will have to provide extensions to the IETF draft.

ITU-T work on ISUP-BICC-SIP interworking [two step] is less advanced but considered to be more future-proof than the IETF solution. 3GPP can advance the BICC-SIP interworking within CN4/CN3. This is being done in any case for the IMS-CS interconnect.

It was agreed to delete the informative annex including the IETF draft from 29.163.

It was agreed to examine BOTH solutions, work upon the common parts, and add BICC and ISUP parts to separate sections as required.

CN3 does not believe that 29.163 will be 80% for approval in December 2001, but it is too early to tell. It was noted that there is only one CN3 meeting before CN#14 meeting. David Boswarthick [MCC] added that CN plenary has tasked the CN WGs to examine the Rel-5 WIs and provide realistic time estimates. If we do not push back expected delivery date CN3 must deliver a v1.0.0 of 29.163 in this meeting to be presented to CN#13 in September.

It was agreed to modify the expected delivery date of this work to March 2002, and update the WID to reflect this [WID in 0313].

RESULT: The document was **REVISED to N3-010312.**

? REVISED?

N3-010312: **Rev. document "Extending the scope of 29.163 to include SIP-BICC interworking".** Presented by *Miguel-Angel Garcia-Martin of Ericsson.*

CONTENT: Contains the revised version of the previous document including all of the comments and conclusions agreed during the discussion.

DISCUSSION: CN3 agree with this principle and expect contributions to the next meeting.

RESULT: The document was **AGREED.**

N3-010313: **Updated WID for Interworking between IM Subsystems and CS.** Presented by *Nigel Holland of BT.*

CONTENT: Changes the expected delivery dates on the work to March 2002.

DISCUSSION: Nortel Networks, Ericsson and Vodafone wish to add their support to this work item.

Also 29.163 we should add interworking between SIP and BICC/ISUP

RESULT: The document was **REVISED to 0329.**

? REVISED?

N3-010329: Updated WID for Interworking between IM Subsystems and CS. Presented by *Nigel Holland of BT*.

RESULT: The document was **AGREED**.

N3-010281: User Plane protocol stacks for IMS to PSTN Interworking. Presented by *Nigel Holland of BT*.

CONTENT: The document proposes User Plane Interworking Protocol Stacks to be added to 29.415 and 29.163.

DISCUSSION: Thomas [Siemens] lu User plane requires the adequate out of band signalling that is not presently provided by SIP and the lu framing protocol does not work. These protocol stacks need to be seen and approved by SA2 and they should provide guidance on the end to end user protocol stack.

Miguel [Ericsson] did not agree with adding these stacks to 29.163 as it should only define interworking and not include the end-2-end details. We need only to concentrate on the MGW stack. These diagrams are useful for information, but should not be added to 29.163.

There was some disagreement on the protocol stack and it was decided to have offline discussion to formulate the liaison to SA2 requesting clarifications on the UP protocol stack over which CN3 need to provide interworking. This LS is in N3-010311.

RESULT: The document was **DISCUSSED**.

N3-010311: LS OUT to SA2 on User Plane for IMS to PSTN Interworking. Presented by *Nigel Holland of BT*.

CONTENT: LS to SA2 presenting CN3's working assumption for the user plane protocol stack for IMS to PSTN interworking.

RESULT: The document was **APPROVED**.

N3-010285: Message and content presentation. Presented by *David Sanders of Vodafone*.

CONTENT: This contribution presents four alternative methods for presenting the mapping information of the SIP to ISUP messages.

~~✍~~ Textural description with support of signalling flow diagrams

~~✍~~ Textural description with support of tabular information

~~✍~~ SDL based with support of textural and tabular information

~~✍~~ Textural description with support of fragmented SDLs and tabular information

It is proposed that alternative 4 [Textural description with support of fragmented SDLs] should be adopted for the purpose of presenting the mapping requirements between SIP and ISUP.

DISCUSSION: Thomas Belling [Siemens] supported having a solution that clearly presents the required information with a minimal effort. Norbert [Siemens] also supported the use of tables to show mapping (as presently used in 29.007), but questioned the use of SDLs. Also Norbert requested that we avoid repeating codings (table.1) that are specified in other specifications.

Miguel [Ericsson] added that although 24.228 will include many signal flow diagrams that we may reference. However, we will need to add some more flow diagrams to 29.163.


David Sanders [Vodafone] said he is willing to do this work [specify details of SS7 message to the SIP message] only if CN3 believe it is required.

CN3 agreed to describing the mapping information as much as possible in textual/table form only using SDL where text is not appropriate.

An example of how ITU-T are describing such mapping was provided in N3-010314.

Celine Bonnel [Nortel] supported having the table.1 as a summary of the information and will check how much detail should be included in the table.2.

Norbert preferred having the parameter information in a format similar to the ITU-T document. David Sanders repeated that a lot of the information (i.e. for method header) is already included in the SIP draft.

 **[ACTION N3_18_06] - David Sanders will provide examples of the proposed tables in 29.163 for comments to the CN3 email list.**

RESULT: The document was **NOTED**.

N3-010314: **PROPOSED LAYOUT FOR NEW RECOMMENDATION Q.1912.SIP.** Presented by *Alf of Ericsson*.

CONTENT: This contribution includes ITU-T SG.11's proposed layout of Q.1912, that was used as an example in relation to the discussion of the Vodafone contribution [N3-010285]. The tables shown a simple mapping of message to parameter.

DISCUSSION: David Sanders [Vodafone] it does not specify what format the User info element must be. Also most of the message information is already given in the IETF SIP draft.

RESULT: The document was **NOTED**.

N3-010315: **Modifications to 29.163 to include BICC.** Presented by *Miguel of Ericsson*.

DISCUSSION: The references to ETSI specifications should be replaced by reference to ISUP Q.761-764, but this needs to be checked.

Also some font and formatting errors need to be corrected.

RESULT: The document was **REVISED to N3-010337**.

? **REVISED?**

N3-010337: **Clean version of 29.163.**

DISCUSSION: Will be distributed to the CN3 email exploder next week and placed to the 'Draft Specs' area of the 3GPP server by David, MCC.

RESULT: The document was **AGREED**.

9.3 End to End QoS for IMS

[CN3 consider their work to this Work Item as 10% Complete](#)

N3-010283: **Proposal on the work split of "End-to-end QoS Stage 3" among CN and RAN working groups.** Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document proposes a work split of "End-to-end QoS Stage 3" among CN and RAN working groups

DISCUSSION: *Comments* were taken to each part of the **proposal**.

for 24.008 **Requirement to define the encoding of the binding information in the protocol configuration option IE (Information element).**

for 24.228 *Stephen Hayes commented that the detailed interaction flows should be done in a separate specification to avoid delays to 24.228.*

David Sanders suggested detailed COPS flows in TS 29.207. However, resource reservation (RSVP) cannot be included in 29.207 (Go interface) and will probably require a NEW SPECIFICATION.

CN1 / CN3 to analyse 24.228 for missing boxes timing relations between these boxes and information flows.

The detailed interaction flows (e.g. RSVP, COPS etc.), which are shown as boxes in 24.228 will be included in the appropriate specifications (proposed to be under CN3's responsibility).

for 27.060 **To specify the functions in MS such as Binding Mechanisms, DiffServ Edge, RSVP Proxy, etc.**

To specify the scheme for interworking between PDP context activation procedures and resource reservation protocols.

To specify the mapping of QoS parameters between SDP/RSVP and UMTS, and between SDP and IP.

- for 29.061/2 IP BS manager function in GGSN.**
It was agreed that this information is best included in 29.061.
To specify the functions in GGSN such as Service-based Local Policy Enforcement Point, DiffServ Edge, RSVP Proxy, etc. in GGSN.
To specify the scheme for interworking between PDP context activation procedures and resource reservation protocols.
To specify the mapping of QoS parameters between UMTS/RSVP and IP.
It should be clarified which is an appropriate specification to incorporate these.
- for 29.061/2 Diffserv edge function and RSVP sender/receiver proxy function** *were moved for additional information into the IP BS manager function in GGSN row.*
It was suggested that we require RULES for which work should go to 29.061 and 29.062 in order to provide clarity and avoid confusion.
- for 29.163 CN edge function as an interworking point between IMS and CS** *This needs to be clarified by SA2. A LS to SA2 will be formulated in N3-010317.*
- for 29.207 COPS signalling over Go interface.**
To specify COPS signalling interactions and to specify UMTS specific COPS objects.
Other relevant information, which is common to several specifications or which has no appropriate specification to sit, will likely be incorporated in this specification.
- for 29.060 QoS control function for GTP.**
 Laurent [Cisco] suggested that there are no QoS impacts on GTP (hence 29.060). QoS is provided by the underlying IP layers. QoS in the IP network is operator independent and not subject to standardization.
 Thomas and [Siemens] asked if there is not a mechanism for GTP to signal for QoS reservation. As this was not clear to the meeting it was decided to leave this open for discussions with CN4.
To study the impact to guarantee QoS over GTP tunnels.
- for 29.060 Binding information.** The original text was agreed
To study how the binding information (auth token + flow identifiers) is sent from the UE to the GGSN.
- for 25.413 RAB QoS negotiation.** It was decided that the impact on 24.413 is unknown at this time. Also Norbert preferred to delete the RAN3 part of this document as it implies CN3 are now responsible for coordinating the RAN work on QoS, as opposed to SA2.
 It was agreed to delete this RAN specification from our list and limit our document to CN WGs only. However 25.413 may have some modifications for QoS and should not be forgotten.
- RESULT:** The document was **REVISED to N3-010318 [see section 10.1].**
- ? REVISED?**
- N3-010318: Proposal on the work split of End-to-end QoS Stage 3 among CN working groups.**
 Presented by *Daisuke Yokota of Lucent.*
Handled in joint session with CN1 and CN4 (see section 10.1)
- ? REVISED?**
- N3-010319: Revised proposal on the work split of End-to-end QoS Stage 3 among CN working groups.** Presented by *Daisuke Yokota of Lucent.*
- CONTENT:** This document proposes the revised work split of "End-to-end QoS Stage 3" among CN working groups as produced following the joint session.

DISCUSSION: CN3 must examine the option of creating a new specification to specify the detailed QoS signalling flows which are not covered in 24.228. If not these detailed flows may be included in existing specifications.

Miguel [Ericsson] preferred providing a normative annex to 24.228 although CN1 have some problems with the increasing size of this specification.

Johanna supported putting these QoS signalling flows as a normative annex to 29.207 and once this is stable, deciding what parts need to be included 24.228. This has the advantage of keeping the development of these flows under CN3's control, and reducing the amount of information that needs to be added to 24.228. This will require a change of the scope and/or title of 29.207. Norbert preferred developing these flows immediately as an Annex to 24.228 as this is the final objective.

Miguel - 24.228 is not normative and only contains the examples. CN3 cannot add a normative annex to a non-normative specification.

Daisuke - All QoS flows do not need to be included in 24.228. Some will require to be housed within CN3 specifications (existing or new).

CN3 agreed to maintain this as a separate working document in the form of a draft specification. However a specification number will not be requested at this stage. Once the work is stable CN3 will decide where to include the flows (either new specification or annex to 24.228).

The above changes were agreed to be included in the revised version of this document to be circulated by Daisuke in the CN1 and CN4 meetings

RESULT: The document was **REVISED to N3-010326**.

? **REVISED?**

N3-010326: **Revised proposal on the work split of End-to-end QoS Stage 3 among CN working groups.** Presented by *Daisuke Yokota of Lucent*.

RESULT: The document was **AGREED**. Also agreed in CN4. Result in CN1 still outstanding.

N3-010317: **LS OUT to SA2 on Requirement for QoS for CE IW.** Presented by *Kamel Shaheen of Interdigital*.

CONTENT: LS to SA2 requesting information on the open issue concerning QoS is required for "Interworking between the IMS and CS networks".

DISCUSSION: The reference to the work split document is not required. Also the text was restructured for more clarity. The CN3 LS template was also used for greater consistency.

RESULT: The document was **REVISED to N3-010328**.

? **REVISED?**

N3-010328: **LS OUT to SA2 on Requirement for QoS for CS IW.** Presented by *David Boswarthick of MCC*.

RESULT: The document was **APPROVED**.

- N3-010284:** **Proposed draft TS 29.207 on “Policy control over Go interface”.** Presented by *Daisuke Yokota of Lucent*.
- CONTENT:** The intention of this proposal is to discuss the scope and the contents of the new specification TS29.207, which describes the “Policy control over Go interface”. The first draft of TS 29.207 is enclosed.
- DISCUSSION:** Note the TS title has changed from "IMS Go interface SBLP signalling" to "Policy control over Go interface". The change was agreed by CN3 and needs to be aligned in the WID.
- SA2 have hinted that there may be a split of the PCF/ P-CSCF into two separate components. This is allowed in the present text of the TS.
- Rune [Ericsson] suggested deleting some text from the SCOPE as it duplicates the rest of the section and suggests a mandatory requirement. Daisuke suggested that this text is there to provide clarification and would like to modify this text to remove the mandatory flavour.
- Rune [Ericsson] proposed deleting section 4.4 "Functional elements and capabilities" as it duplicates existing information from 23.207. It could be replaced by a simple reference to 23.207. Norbert suggested leaving it until we have a clearer idea of what text will be included here and in 23.207. Only then can we study any eventual duplication. However the warning of possible duplications must be kept in mind.
- The structure of TS 29.207 was AGREED. CN3 expects to see further contributions at the next meeting.
- RESULT:** The document was **AGREED**.
- N3-010286:** **General Requirements for the Go Interface.** Presented by *David Sanders of Vodafone*.
- CONTENT:** This document provides an introduction to the Go interface. It includes Go interface definition and abbreviations, general introduction and high level of requirements. The intention of this document is to initiate discussion and to provide initial input to the new CN3 specification TS 29.207. More detail is provided in N3-010287.
- The document also introduces the new concept of PDP Context Suspension procedure. This will need further investigation in CN3.
- DISCUSSION:** Daisuke appreciated this contribution and will include the information in TS 29.207.
- RESULT:** The document was **AGREED**.
- N3-010287:** **Detailed Requirements for the Go Interface.** Presented by *David Sanders of Vodafone*.
- CONTENT:** This document discusses the requirements for the Go interface and concentrates on the procedures from the P-CSCF (PCF) to the GGSN. This document introduces the new concept of PDP Context Suspension procedure.
- The intention of this document is to initiate discussion and to propose protocol architecture and detailed analysis for input into TS 29.207.
- DISCUSSION:** David clarified that the PDP Context Suspension procedure is a possible requirement for situation when a mobile switches bearer (e.g. multimedia to speech bearer). During that situation the subscriber should not pay for the switch part of the call. Laurent [Cisco] clarified that 'suspend' is applicable only to 2G network in the situation when a voice call interrupts an ongoing data call.
- It was agreed to not to include Context Suspend in 29.207 at this time.
- P-CSCF address discovery has not yet been agreed in CN1 and cannot yet be added to 29.207.
- Norbert had a fundamental question on including requirements in a Stage 3 specification.
- It was agreed not to include requirements in 29.207 until we have received clarification from SA2 on the progress of requirements for the Go interface. David Sanders will check on the progress of this work in SA2
- RESULT:** The document was **NOTED**.

N3-010325: Detailed Requirements for the Go Interface. Presented by *David Sanders of Vodafone*.

CONTENT: Contribution N3-010287 discussed the requirements for the Go interface and focused on the procedures from the P-CSCF (PCF) to the GGSN. This document also introduced the new concept of PDP Context Suspension procedure.

During the discussion of N3-010287, a number of concerns were raised:

- The PDP Context Suspend procedure is a new requirement and further investigation is required as to its requirements;
- The requirements for the Go Interface should not be included in the Stage 3 specification. Any additional requirements should be initially addressed in SA2;
- The question of whether the use of TCP, as described in the proposed protocol stack, cause any delays and what impact this will have on possible strict requirements on the Go Interface;
- Following the LS from SA2, the split between the P-CSCF(PCF) should be considered.

Following the approval of N3-010284 (TS 29.207), this document (N3-010325) is a proposal for inclusion of text, as described in N3-010287 (above issues have been omitted) into N3-010284.

DISCUSSION: Daisuke [Lucent] had concerns with the flows in section 5.2.1. These flows allow the initiation of update PDP context request before approval from PCF. Daisuke requested that 5.2.1 be removed to allow more time for further study. David agreed that this needs to be examined further but stressed that only one small part of the change is doubtful.

In order to avoid deleting all the text it was agreed to add an Editors note to the section stating that this is 'temporary text', further investigations are needed.

RESULT: The document was **AGREED to be included in 29.207**.

N3-010335: TS 29.207 v0.1.0.

CONTENT: Incorporates all the changes to 29.207 that have been approved in this meeting [N3-010325 and N3-010286]. Will be distributed to the CN3 email exploder next week and placed to the 'Draft Specs' area of the 3GPP server by David, MCC.

RESULT: The document was **AGREED**.

N3-010258: WID for end 2 end QoS Stage 3. Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document contains the latest version of the CN3 WID for end 2 end QoS Stage 3 as modified and then approved at CN#12 meeting.

DISCUSSION: Daisuke will update the 'expected outputs' following the structure of N3-010326.

CN plenary have tasked all WGs to provide realistic timescales for all IMS work.

CN3 discussed the timescales for end to end QoS. The feeling was that ALL of the QoS work would not be completed before March 2001. However it is expected that the call flows can be finalized by December 2001.

It was felt that TS 29.207 cannot be completed before March 2002.

Also the work on other specifications is not expected to be complete before March 2002.

Rune was concerned with creating CRs to existing specifications based upon the approval of 29.207. Can we approve such CRs to specifications before TS 29.207 is approved?

It was thought that 27.060 and 29.061 have clear dependencies on 29.207 and the expected delivery date should be delayed to March 2002. However CN1 have stated that they will complete the work to 24.228 by Dec 2001, so this date will remain unchanged in the WID.

The mapping work to the interworking specification 29.163 is expected to be delayed to March 2002.

29.162 was removed from the WID as it will not be impacted. The RAN specification 25.413 was also removed.

The existing notes were replaced by the notes in contribution N3-010326.

Also the title of 29.207 needs to be corrected

RESULT: The document was **REVISED to N3-010327**.

? **REVISED?**

N3-010327: **Rev. WID for end 2 end QoS Stage 3.** Presented by *Daisuke Yokota of Lucent*.

CONTENT: Revised version of the CN3 WID for end 2 end QoS Stage 3.

DISCUSSION: Change to source and removal of old revision marks.

RESULT: The document was **REVISED to N3-010334**.

? **REVISED?**

N3-010334: **Rev. WID for end 2 end QoS Stage 3.**

RESULT: The document was **AGREED**.

N3-010268: **WID for end 2 end QoS Architecture for Rel-5.** Presented by *David Sanders of Vodafone*.

CONTENT: This document contains a Liaison including the latest version of the SA2 WID for end 2 end QoS Architecture for Rel-5.

RESULT: The document was **NOTED**.

9.4 Other Rel-5 Work Items

N3-010275: **Fallback from UDI multimedia and changing between speech and multimedia.**
Presented by *Rune Werner Wiik of Ericsson*.

CONTENT: This discussion document presents a proposal to enhance the existing fallback to speech after setup, in order to allow changing between ordinary speech and multimedia on user's request, and to allow fallback from UDI multimedia to speech.

DISCUSSION: The call is set up with 2 BCs, one for speech, the other for multimedia. If the called MS responds with 2 BCs then it indicates it can support multimedia. The 2 BC IEs are transmitted end to end.

Juha [Nokia] asked what happens if called mobile does not support multimedia? Rune clarified that the call party rejects the call and has the option to fallback to speech.

Rune clarified that this must be done after a "negotiation" between both users. The normal procedure would be to start the call as a voice call and then, after a negotiation, modify to a Video call. There is, however, nothing that prevents the users to first try to set-up a Multimedia Call.

In Modem multimedia, it is believed that only a multimedia BC is sent then this implicitly means that it is possible to fallback to speech.

Juha - ISUP / BICC does not presently specify the all of the parameters requested in this proposal. This means the ISUP / BICC standard needs to be modified for this to work. However Rune believes this is not the case as they consider the ISDN to be transparent [*this needs to be checked*].

It was claimed that this works only with BICC, not with the existing ISUP Q.767 standards. However it was not agreed if changes to ISUP were needed or not.

Juha - Why use a modem connection between MGWs when the connection could be fully digital, allowing for higher data rates? Modems are present in the network only for interworking to PSTN. Norbert - How will compression and multiplexing in transit networks be a restriction to this proposal? This was a reason for rejecting the previous

NEC/NTT DoCoMo proposal. Ericsson said that this is a restriction that needs to be studied further.

Alf responded that 64kbit preferred *falls back to 3.1kbit* when the network resources cannot provide 64kbit.

64kbit unrestricted *releases the call* when the network resources cannot provide 64kbit.

This is a new function for Rel-5 and the proposed WID is provided in N3-010301

RESULT: The document was **NOTED**.

N3-010301: **Proposed WID for Service Change and UDI Fallback.** Presented by *Rune Werner Wiik* of *Ericsson*.

CONTENT: Contains the proposed WID for Service Change and UDI Fallback.

DISCUSSION: There may be some charging aspects due to swapping between bearer types and charging for these bearers. Rune stated it is not expected to standardize anything for charging although this needs to be examined further.

Norbert asked what we expect the impact on security will include? Rune said no standardization work is expected to be required in SA3.

Graham Heaton noted that the title of 24.008 is not correct in the WID.

Vodafone added their support for this WID.

It was agreed to make this a FEATURE as it does not relate to any existing feature in the project plan.

RESULT: The document was **REVISED to N3-010321**.

? **REVISED?**

N3-010321: **Proposed WID for Service Change and UDI Fallback.** Presented by *Rune Werner Wiik* of *Ericsson*.

CONTENT: This Contains the proposed WID for Service Change and UDI Fallback.

DISCUSSION: This should be a feature (with no building blocks under). Also France Telecom and Mannesmann Mobilfunk added their support for this work item.

RESULT: The document was **REVISED to 0336**

? **REVISED?**

N3-010336: **Proposed WID for Service Change and UDI Fallback.** Presented by *Rune Werner Wiik* of *Ericsson*.

RESULT: The document was **AGREED**.

N3-010273: **CR064 to 27.001 v4.4.0 "Fallback to speech enhancements" for REL-5.** Presented by *Rune Werner Wiik* of *Ericsson*.

DISCUSSION: Alternate facsimile and speech should not be deleted, this CR needs further study.

RESULT: The document was **WITHDRAWN**

N3-010274: **CR040 to 29.007 v4.2.0 "Fallback to speech enhancements" for REL-5.** Presented by *Rune Werner Wiik* of *Ericsson*.

DISCUSSION: This CR needs further study.

RESULT: The document was **WITHDRAWN**.

- N3-010276:** **Draft LS to CN1 on Fallback to speech enhancements.** Presented by *Rune Werner Wiik* of *Ericsson*.
- CONTENT:** In this LS, CN3 requests CN1 to assist in an enhancement of the existing Fallback to Speech CS multimedia feature in order to enable service toggling between speech and CS multimedia.
- DISCUSSION:** If we have approval of the related WID in CN plenary we do not need to inform CN1 with a LS of the work required in that group. Ericsson can take a contribution directly to CN1.
- RESULT:** The document was **WITHDRAWN**.

10 Joint Sessions:

10.1 Joint session with CN1/CN3/CN4 for end to end QoS

[Chair: Norbert Klehn, Secretary / MCC Support: David Boswarthick]

The Session Chair, Mr. Norbert Klehn opened the meeting at 18:15: on Tuesday 10th July. He set the session objective as follows:

- ?? **Agree the worksplit within CN WGs for End to End QoS**
- ?? **Determine a method for future work between working groups for this work.**

N3-010318: Proposal on the work split of End-to-end QoS Stage 3 among CN working groups.
Presented by *Daisuke Yokota of Lucent*.

CONTENT: This document proposes a work split of “End-to-end QoS Stage 3” among CN working groups. An earlier version of this document has been discussed by e-mail, and CN3 have provided updates to the initial proposal.

DISCUSSION: Discussion on 24.228

CN3 seek guidance from CN1 on what flow information needs to be included in 24.228.

Hannu [CN1 chair] questioned what the proposed change to 24.228 for the Encoding of binding information in the protocol configuration option IE may include. At the moment the protocol configuration contents are simply a black box in 24.228.

Laurent [Cisco] clarified that we need to define the container for the binding information.

It is understood that the P-CSCF will be responsible for delivering the authorization token to the UE in the SIP response message and then passed to GGSN (using RSVP or PDP Context).

Keith Drage [Lucent] believes that the detailed stage 3 flows should be included in 24.228 and does not think the flows should be included in other specifications (such as the Go spec). Changes to these flows should be done in the CN joint sessions on 24.228.

Keith wanted at least to see the details the separation of the P-CSCF and PCF included in 24.228

Stephen Hayes [CN chair] said it would be useful to remove as much of this flow information as possible from 24.228 as the document is already very large and the inclusion of detailed flow information will make it even larger. Also including the details will possibly delay the approval of 24.228 v5.0.0.

It was clarified that there is a clear split within SA2 of 23.228 to include SIP flows and 23.207 to include QoS flows. It is expected that this split be repeated in CN WGs and including all these flows in 24.228 will lead to a very big specification.

Stephen Hayes added that a lot of the information in 23.207 is optional and these options will need to be made in different boxes. Is it desirable to have all of these options defined within 24.228 or break them out into several specifications?

Andrew Allen [Motorola] suggested the compromise of including example flows in 24.228. Appropriate text was drafted offline and included in a revised version of this document. The examples flows would be informational, and not include the same level of detail as SIP message flows. It is expected that CN3 will provide input to the flows in 24.228 via the joint session.

Discussion on 29.060

The QoS modifications to the GTP were once again questioned as it is expected that modifications will be made to the IP bearer services. CN3 expect that there will be no impact on the GTP. However there may be a mapping mechanism that needs to be included in 29.060. CN3 hope for advice from CN4 GTP experts however more time is required for this.

General Comments

It was agreed that the TS 24.229 be added to this table.

It was agreed that this document N3-010318 has to be revised off-line to incorporate the results of discussion.

WORK ORGANIZATION - It was decided that QoS will be discussed principally in CN3 and any discussions requiring decision on where work is to be allocated will be discussed in a dedicated QoS joint session

RESULT: The document was **REVISED to N3-010319. [See section 9.3]**

10.2 Joint Session with CN1 on 23.218 (Wednesday 10th July 2001 at 11:00)

N1-010930 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Filter Criteria mode in IMS

Conclusion : *Withdrawn, revised to 1013*

N1-011013 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Filter Criteria mode in IMS

Discussion : Revised from 930. In the IMS, the service related filter criteria could be divided into initial set of filter criteria and subsequent set of filter criteria for each subscriber and related to each service platform. There could be three different implementation modes or schemes for these criteria with respect to the residency of the service related data as follows:

1. All service related data is stored in the service platforms. The S-CSCF only has the service platform addresses for each subscriber/user.
2. The same as the above case except for the S-CSCF that in addition to the service platform addresses, it also contains the initial set of filtering criteria for each subscriber and related to each service platform.
3. In this case, the initial and subsequent sets of filter criteria are separately stored in the S-CSCF and the service platform, respectively. Subsequent filter criteria are transported to S-CSCF when service logic is invoked.

An editorial in mode 1 was pointed out and deletion or rewording is needed. Internal logic in AS was not wanted to be seen from S-CSCF, only as blk boxes. Sh interface is not intended for downloading of filter criteria, but just shown for the architecture. Different public Ids might have different services and different AS. Subsequent triggering is removed as the initial triggers are re-evaluated by S-CSCF at every return from the AS.

Agreed the proposal that the initial service filtering criteria should be available (downloaded) to S-CSCF, and is taken as working assumption. This triggering of AS from S-CSCF is alternative 2 in the document.

Is section 5 here is modified according to another contribution from Lucent to this meeting? No, the proper doc will be presented according to the decision on this document later on. Section 5 is agreed.

Conclusion : *Agreed on alternative 2 and on section 5*

N1-010931 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Initial filter criteria in IMS

Conclusion : *Withdrawn, revised to 1014*

N1-011014 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Initial filter criteria in IMS

Discussion : Revised from 931.

Conclusion : *Withdrawn*

N1-010936 : 23.218v050 , Ericsson, Type: DISCUSSION , Title: Filter Criteria for ISC Interface

Conclusion : *Withdrawn*

N1-010981 : 23.218v051 , Motorola, Type: CR , Title: 23.218 v051 IP Multimedia (IM) Session Handling; IP Multimedia (IM) call model

Discussion : Implemented according to earlier decisions in CN1#17.

Conclusion : *Noted*

N1-010982 : 23.218v051 , Motorola, Type: CR , Title: Removal of I-CSCF and P-CSCF from Section 5 of 23.218

Discussion : The current version of TS 23.218 includes the specification of functional requirements of Proxy-CSCF, Interrogating-CSCF and Serving-CSCF for IP Multimedia sessions. Should 23.218 focus on the Interactions between the S-CSCF and Application Servers (IM_SSF, OSA SCS and SIP Application Servers) and the Mappings and Call Models contained in these entities, and not contain the functional requirements for Proxy-CSCF, Interrogating-CSCF for basic call/session handling ?

At CN1#17 N1-010761 proposed to modify the scope of 23.218 and remove section 5 in order to effect this change. It was the opinion of the meeting that this was too broad a change, so this contribution is a revised version which does not modify the scope of the document but removes the I-CSCF and P-CSCF subsections from section 5.

Conclusion : *Agreed*

N1-010983 : 23.218v051 , Motorola, Type: CR , Title: Modifications to layout of 23.218 based on revised SA2 architecture for Service Control and selection of SIP for the ISC interface protocol

Discussion : The basic layout of TS 23.218 was determined at the end of last year when the Stage 2 architecture regarding the provision of services and service control for IMS was unclear. Since then SA2 has clarified this issue and has completed a detailed architecture for the provision of services for the IMS and selected SIP as the protocol between the S-CSCF and the Application Servers. This means that the structure of 23.218 needs reorganisation.

It is proposed that 23.218 be modified along the lines of section 2.2 in this CR and the architecture diagram and models endorsed by SA2 in section 2.1 in this CR be included in 23.218 as a starting point. A LS is proposed drafted to inform CN2 and CN5 officially of these decisions. The 23.218 was proposed to be aligned with the SA2 architecture decisions.

CAMEL and OSA aspects that needs to be incorporated into CN2 and CN5 specifications respectively, should be handled in own TSs or as enhancements to existing TSs. This depends on the outcome of 23.218 spec decisions on the issue and the working groups own decision. Joint meeting with CN5 also would be beneficial, but it seems not possible this year (nor the intended October meeting). One (interim) alternative is to decide shared responsibility of the TS 23.218,- section 6 and 9 with CN2, while section 8 is with CN5. The CR numbering belongs to N1 when 23.218 becomes a TS under change control. Other view is to have split documents for each group to handle, since it is cleaner. Splitting is agreed to be the long term solution, but if and when is up to CN2 and CN5.

The rapporteur of 23.218 needs one co-rapporteur from CN2 and one from CN5 to handle the respective shared sections. Liaisons to CN2 is not needed since they are present and CN5 will be informed by Jane. CN1 can work on 23.218 on its own, but certain contributions will still need to be handled in joint sessions between Core Network groups.

Conclusion: Agreed

N1-010986 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios

Conclusion : Withdrawn, revised to 1015

N1-011015 : 23.218v? , Lucent T., Type: CR , Title: CR to 23.218: Information Flows for IMS Service Examples: Call Forwarding Scenarios

Discussion : Revised from 986.

Conclusion : Not treated due to lack of time

N1-010987 : 23.218v? , Lucent T., Type: CR , Title: CR to 23.218: Pre-paid Service Control Examples

Conclusion : Withdrawn, revised to 1016

N1-011016 : 23.218v? , Lucent T., Type: CR , Title: CR to 23.218: Pre-paid Service Control Examples

Discussion : Revised from 987.

Conclusion : Not treated due to lack of time

N1-010988 : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

Conclusion : Withdrawn, revised to 1026

N1-011026 : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

Discussion : Revised from 988. IM-SSF is the term to be used. MAP is not decided to be used between HSS (which is not the same as HLR) and gsmSCF, and therefore proposed to be removed. The top figure miss the rev. mark for deletion. More editorials to be handled. The HSS-CSCF (Cx interface protocol) is based on Diameter.

Conclusion : Revised to 1044

N1-011044 : 23.218v050 , Lucent T., Type: CR , Title: Updates to CAMEL sections in 23.218

Discussion : No joint session organized to handle this, but dealt with in the N1 part of this meeting.

Conclusion : Agreed

N1-010989 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

Conclusion : Withdrawn, revised to 1017

N1-011017 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

Discussion : Revised from 989. N1-011013 shows three filter criteria implementation modes in IMS and the option 2 was proposed and agreed as the implementation mode in 23.218. In option 2, the initial filter criteria sits in the S-CSCF, once a SIP message matches the initial filter criteria at the S-CSCF, the S-CSCF will proxy the SIP message to corresponding service platform entity across ISC interface. The protocol on ISC interface is SIP. Because SIP is used in this interface, in order to perform service control, the entity (IMSSF, OSA SCS or SIP AS) need to have the knowledge about the session transaction which means that the SIP messages which matches initial filter criteria have to be the session initiation or registration requests. In other words, the points of interest for the service platform in a SIP transaction are SIP requests.

Replace references to SIP+ (since it is a dead name) with ISC. Modification of the initial filter criteria to add things like REFER and REGISTER and also generalising the triggers in classes (4xx, 5xx etc.)? The REFER message was said to be already in 23.218. Bottom of the page needs the () removed.

Conclusion : Revised to 1043

N1-011043 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Additional changes to initial filter criteria based on N1-010930

Discussion : No joint session organized to handle this, but dealt with in the N1 part of this meeting.

Conclusion : Agreed

N1-010990 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state model on N1-010930

Conclusion : Withdrawn, revised to 1027

N1-011027 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state model on N1-010930

Discussion : Revised from 990. There is ongoing work in TSG SA1 to identify which aspects of CAMEL apply in IMS. The current working assumption in SA1 is that all the procedures that apply to MO and MT circuit switched calls may in theory apply to IP multimedia sessions. (S1-010692). The proposal in this contribution is to update the existing description of the Originating and Terminating IP multimedia Basic Call State Model in 23.218.

Some terminology confusion around IM SSF was discussed, but it is so far also used similarly in 23.228. Section numbers shall not be deleted.

Conclusion : Revised to 1045

N1-011045 : 23.218v050 , Lucent T., Type: CR , Title: CR to 23.218: Revision of the originating and terminating call state model on N1-010930

Discussion : No joint session organized to handle this, but dealt with in the N1 part of this meeting.

Conclusion : Agreed

N1-010997 : Siemens , Type: DISCUSSION, Title: S-CSCF Rolemapping

Discussion : During the last CN1 meetings a discussion about the SIP Role of an S-CSCF came up. This is needed to describe the SIP behaviour of the S-CSCF within the IMS. 24.229 currently states that a S-CSCF can act as a SIP Proxy or as an UA. This contribution analyses the current situation and open issues on the S-CSCF SIP role and gives some proposals on how to go on with this issue. 24.228 assumptions are the valid ones, but some recent changes on 24.229 needs change if those assumptions shall be kept. With introduction of ASs not only the BYE message seems to be impacted. ISC now being a SIP protocol would allow S-CSCF to look like a Proxy.

B2BUA definition is 2 legs tied together with an application and with different IDs in and out. Many open issues were raised on this contribution, eg do we have subsessions that constitute one e-2-e session?

Conclusion : Noted

N1-011003 : Ericsson , Type: DISCUSSION, Title: Addressing B2BUA in a SIP network

Discussion : This contribution addresses the question on whether the S-CSCF needs to behave as a back-to-back user agent (B2BUA). This contribution describes the needs on the B2BUA at the S-CSCF if it were to be a RFC2543 compliant UAS. It is shown that this would result in breakdown in SIP network transparency, thereby violating RFC2543.

Some discussion took place, but it again focused on B2BUA or not.

Conclusion : Not treated due to lack of time

N1-011004 : Ericsson , Type: DISCUSSION, Title: Network Controlled Session Disconnection

Discussion : This contribution describes scenarios where the network determines that a call in the process of being set-up, or already set-up, needs to be disconnected. It addresses the issue that network-centric control of SIP sessions are necessary to provide network-centric services and describes methods by which this can be achieved without the use of a B2BUA.

Some discussion took place. Based on the ISC interface now evolving from SIP, it might be better to make 3rd party call control. It was not wanted that 23.218 became another 24.228 with enormous amount of pages.

Conclusion : Not treated due to lack of time

N1-011005 : Ericsson , Type: DISCUSSION, Title: Network Controlled Session Setup, Modification

Discussion : This contribution shows how SIP messaging, using the end-to-end model as described in RFC 2543, can be used to provide a network initiated session set-up and modification.

Another discussion around B2BUA or not, seen from the difference between the SIP architecture and the 3GPP architecture. From S-CSCF, SIP is decided towards AS, but towards MRF it is FFS.

Conclusion : Noted

N1-011006 : Ericsson , Type: DISCUSSION, Title: Network Controlled Addition/Removal of legs

Conclusion : Not treated due to lack of time

N1-011008 : S2-011685, Type: LS IN , Title: LS on ISC

Discussion : Forwarded from agenda item 3. The terminology was agreed on,- SA2 have endorsed the term ISC for IMS Service Control interface. Furthermore they have decided that the protocol to be run at this interface will be SIP. At the moment no extensions to SIP are known but if some are needed that will be stage 3 work as usual.

Conclusion: Noted

N1-011018 : Siemens, Type: DISCUSSION , Title: Filter Criteria and Service Points of Interests

Conclusion: Not treated due to lack of time

10.3 Joint Session with CN1 on 24.228 11th July at 16:00

N1-010941 : 24.228v110 , AT&T Wireless, Type: CR , Title: Missing QoS Interaction in 24.228 Procedures

Discussion : This contribution identifies some missing QoS interactions in session set up procedures in TS24.228. Those QoS interactions are defined in TS23.228. The rapporteur of 24.228 volunteered to implement this change to the next draft version.

Conclusion : Agreed

N1-010944 : 24.228v110 , Motorola, Type: INFORMATION, Title: 24.228v110 "Signalling flows for the IP multimedia call control based on SIP and SDP"

Discussion : The last version of the draft 24.228.

Conclusion : Noted

N1-010976 : S3-010292, Type: LS IN , Title: Response to Liaison Statement on the IM Call Transfer Service N1-010890 (S3-010249)

Discussion : Linked LS in N1-010979. S3 has security issues related to this issue, and are looking also for comments from other bodies and will return on this when the work is done.

Conclusion : Noted

N1-010979 : S5-010324, Type: LS IN , Title: Reply to N1-010890 "Liaison Statement on the IM Call Transfer service"

Discussion : SA5 acknowledge the LS from N1 and promise to look at the details from charging viewpoint in their next regular meeting 16-20 July 2001.

Conclusion: Noted

N1-010985 : 24.228v110 , Lucent T., Type: DISCUSSION , Title: Document Structure for the Cx Interface Protocol Standards

Discussion : The document structure should mirror as closely as possible that which has been agreed in CN1 for the IMS specifications. If the scope of the new Cx documents in CN4 is chosen correctly this will avoid confusion and ensure consistent working arrangement across CN1 and CN4 for the documents under their control. The discussion on this topic has already proceeded further in CN4 and there is a new proposal in tdoc N1-011042.

Conclusion : Noted

N1-010993 : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Proposal for Media Gating Timing at MGW for Early Media

Discussion : Media gating at the MGW is currently shown to take place after answer by the called party. This does not allow for early media to be sent to the calling party. Early media may be necessary for network provided tones or announcements. So, there at least needs to be one-way media flow to the calling party earlier in the sequence. Also, since gating at GGSN already happens under control of the P-CSCF/PCF, there is not a need to do gating at the MGW. If the media is blocked on any part of the path, then that is sufficient to prevent transmission of media between endpoints (either one-way or two-way). The proposed change is to eliminate the media gating function of the MGW by enabling the media at the same time the resources are allocated at the MGW. The system will rely solely on the GGSN gating instead.

It was commented that this will not work if a PSTN to IMS call is re-directed to the PSTN. If P-CSCF or PCF is not involved the removal of gating from MGW will result in no gating at all. And tones could eg. be provided by the MGCF.

Conclusion : Rejected

N1-010994 : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Removal of the T-SGW

Discussion : This contribution proposes removing the T-SGW from 24.228, in line with changes agreed within 23.002. The rapporteur of 24.228 volunteered to implement this change to the next draft version.

Conclusion : Agreed

N1-010999 : 24.228v110 , Lucent T., Type: CR , Title: Proposal on the work split of "End-to-end QoS Stage 3" among CN and RAN working groups

Discussion : Seen a revised version of this document (N3-010318) in the QoS joint session last Tuesday night, were the document was agreed to be revised further by CN3. This tdoc is distributed for information in N1-011053.

Conclusion : Noted

N1-011007 : 24.228v110 , InterDigital Communication, Type: CR , Title: Handling of Unsupported media types in SDP

Conclusion : Not treated since it was not made available for distribution in time before nor during the meeting.

N1-011010 : S2-011696 (S2-011677 in the doc itself), Type: LS IN , Title: LS on Future proof specification of the Go interface

Discussion : Forwarded from agenda item 3. From SA2 To CN3 with CC to CN1. The joint meetings opinion on possible open interface between P-CSCF and PCF in the future was sought. It was expressed that separate boxes should then be shown, and preferably for all flows. Only one incoming and one outgoing flow for originating and terminating seems to be the compromise. Hopefully SA2 should do the same in 23.228, but it is not likely. Do we need flows for Go as well ? SA2 needs to be informed about the needed split between P-CSCF and PCF in 24.228, and that N1 could not agree on whether stage 2 is impacted or not.

It has been decided in SA2 that in Release 5 there will be no standardised open interface between the PCF (Policy Control Function) and the P-CSCF. However, introducing such an interface in later releases should not be prevented.

Conclusion: LS OUT in 1046 by Sunil

N1-011012 : 24.228v110 , Lucent T., Type: CR , Title: CR to 24.228: Quality of Service Authorization in IM CN subsystem

Discussion : In 24.228-session initiation flows, there is a box called "QoS Authorization" sitting in one of the tasks of P-CSCF for both originating and terminating sides. There is a functional entity within the P-CSCF called PCF (Policy Control Function), which functions as a Policy Decision Point for the service-based local policy control. Once QoS Authorization procedure is triggered, the P-CSCF initiates a policy setup in PCF for the session and generates an Authorization-Token, which is sent to PCF with related user profile. The PCF shall authorize the required QoS resources for the session and install the IP bearer level policy based on information from the P-CSCF. This contribution attempts to separate the function of PCF from the P-CSCF and show QoS authorization in more detail.

Should SA2 have contributions on 23.228 and 23.207 to handle stage 2 first to show a split functionality (after Release 5) ? This is related to an earlier assumption in this meeting that stage 2 was not impacted by a possible future split between P-CSCF and PCF. The whole functionality in the box for authorization of resources were questioned to which extent it is covered by this contribution. The split was expressed to be of architectural nature, changing the assumptions for the LS OUT in 1046 and the LS from S2 in 1010.

Conclusion : Rejected

N1-011042 : 24.228v110, Ericsson/Motorola, Nokia, Siemens., Type: DISCUSSION , Title: Cx Documentation Approach

Discussion : This document addresses the scope and content of the different documents to be developed by CN4 and submitted to 3GPP and IETF approval. It also addresses documents developed outside CN4, but having a possible impact on CN4 documentation. The list of addressed and referred to documents is to be found in section 1.2.

Relation to 24.228 is not explained, but the plan is to be consistent with it. Cx information flows will be input to 24.228. Also mapping SIP to DIAMETER parameters on the Cx interface should be provided for 24.228 (but also 24.229 was mentioned as possible target). This are to be provided by CN4 experts.

Conclusion : Endorsed

N1-011053 : N3 (tdoc N3-010326), Title: Proposal on the work split of "End-to-end QoS Stage 3" among CN working groups.

Discussion : This is an agreed document in CN3 provided for information only.

Conclusion : Noted

11 Administrative issues

11.1 Work Plan Review

N3-010263: **3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#12 plenary including several updates from WGs.

DISCUSSION: The project plan could not be discussed during the meeting due to a technical problem. It was agreed that David would distribute to the CN3 email exploder, an updated version of the workplan [PDF format]. This will reflect the changes made to the Rel-5 work items during this meeting.

 **[ACTION N3_18_07] - David to distribute the updated project to CN3**

RESULT: The document was **REVISED to N3-010339**

? REVISED?

N3-010339: **Updated 3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains version of the 3GPP project plan incorporating the changes made during this meeting.

 **[ACTION N3_18_08] - David to provide the updates made to the project plan to Alain Sultan**

RESULT: The document was **distributed by e-mail**

11.2 Specification Review

N3-010260: **CR to 01.01: "GSM Release 1999 specifications.** Presented by David, MCC.

CONTENT: Contains change to list of R99 specifications

DISCUSSION: 24.022 title is incorrect.

 **[ACTION N3_18_09] - David check all CN3 specifications and feed back the changes to the 3GPP specifications manager**

RESULT: The document was **NOTED**

N3-010261: **Specification status list prior to CN#12 meeting.** Presented by David, MCC.

CONTENT: Contains a table which shows the status of each 2G (GSM) and 3G specification under the responsibility of 3GPP. The results of TSG-GERAN#4 & #5 are included.

DISCUSSION: Comments back to John Meredith, MCC.

RESULT: The document was **NOTED**

N3-010262: **Spec numbers and titles.** Presented by David, MCC.

DISCUSSION: Comments back to John Meredith, MCC.

RESULT: The document was **NOTED**

11.3 Future Work

No Contributions to this agenda item.

11.4 Next meetings, allocation of hosts

| Meeting | Date | Location, Host | Comments |
|------------|--|----------------------------|----------------------------------|
| TSG-CN#10 | 19 th – 21 st Sept 2001 | China - Lucent | |
| TSG-CN3#19 | 15 th – 19 th Oct 2001 | Brighton UK, Vodafone & BT | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN3#20 | 26 th – 30 th Nov 2001 | Mexico, NA Friends | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN#14 | 12 th – 14 th Dec 2001 | Japan, TTC | Deadline for Completion of Rel-5 |
| TSG-CN3#21 | 14 th - 18 th Jan 2002 | No Host | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN#15 | 6 th - 8 th Mar 2002 | Korea | |
| TSG-CN3#22 | 8 th - 12 th April 2002 | No Host | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN3#23 | 13 th - 17 th May 2002 | Sophia, ETSI | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN#16 | 5 th - 7 th June 2002 | Florida, Motorola | |
| TSG-CN3#24 | 29 th July - 2 nd Aug 2002 | Helsinki, Sonera | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN#17 | 4 th - 6 th Sept 2002 | France | |
| TSG-CN3#25 | 23 rd - 27 th Sept 2002 | No Host | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN3#26 | 11 th - 15 th Nov 2002 | No Host | Co-located CN1,CN2,CN3,CN4 |
| TSG-CN#16 | 4 th - 6 th Dec 2002 | New Orleans, NA friends | |

N3-010259: **Schedule for 2002 CN Plenary and Joint WG Meetings.** Presented by *Norbert the CN3 Chairman*.

CONTENT: Contains the proposed CN WGs meeting dates for 2002.

DISCUSSION: It has been agreed by CN leadership to have co-located CN WGs meetings at least for the 1st half of 2002.

It was mentioned that there is a proposal to have only 3 TSG Plenaries in 2003. This is still under discussion.

Sonera will host the July meeting in Helsinki.

ETSI are investigating hosting the May 2002 meeting in Sophia

NA Friends of 3GPP will host 2 meetings in 2002.

Norbert invited delegates to consider hosting meetings for the CN working groups for next year.

RESULT: The document was **NOTED**.

12 Summary of Results

12.1 Work Items

| TDoc # | Tdoc Title |
|-----------|--|
| N3-010336 | Service Change and UDI Fallback |
| N3-010334 | e2e QoS stage 3 |
| N3-010332 | Interworking between IM CN subsystem and IP networks |
| N3-010329 | Interworking between IM CN subsystem and CS networks |

12.2 Liaison Statements

The following Liaison Statements were agreed by CN3:

| TDoc # | Tdoc Title | LS to | LS cc | LS Attachment | Sent |
|-----------|--|---------|-------|---------------|----------|
| N3-010311 | LS on User Plane protocol stacks for IMS to PSTN Interworking | SA2 | | none | 17/07/01 |
| N3-010324 | LS on the RADIUS Solution for information delivery (Response to LS IN T2-010606) | T2 SWG3 | SA2 | none | 17/07/01 |
| N3-010328 | LS on Requirement for QoS for CS IW. | SA2 | | none | 17/07/01 |
| N3-010330 | LS on IMS to IP Networks Interworking Functions | SA2 | | none | 17/07/01 |

12.3 Change Requests

The following CRs were agreed by CN3, and are to be sent to the TSG-CN#12 Plenary for Approval:

| TDoc # | Spec | Tdoc Title | Rel | CR # | CAT | Rev | C_Ver | N_Ver | WI |
|-----------|--------|--|-------|------|-----|-----|-------|-------|------------|
| N3-010271 | 27.001 | Removal of erroneous IR value | R99 | 061 | F | | 3.9.0 | 3.10. | CS Bearers |
| N3-010304 | 27.001 | Removal of erroneous IR value | Rel-4 | 062 | A | 1 | 4.4.0 | 4.5.0 | CS Bearers |
| N3-010305 | 27.001 | Negotiation of Rate adaptation/Other rate adaptation | R99 | 065 | F | 1 | 3.9.0 | 3.10. | CS Bearers |
| N3-010306 | 27.001 | Negotiation of Rate adaptation/Other rate adaptation | Rel-4 | 066 | A | 1 | 4.4.0 | 4.5.0 | CS Bearers |
| N3-010307 | 27.001 | Removal of erroneous information in B.1.3.1.6 | Rel-4 | 063 | A | 1 | 4.4.0 | 4.5.0 | CS Bearers |
| N3-010308 | 27.001 | Removal of erroneous information in B.1.3.1.6 | R99 | 067 | F | | 3.9.0 | 3.10. | CS Bearers |
| N3-010302 | 29.415 | Clarification on FQC handling and alignment with TS 25.415 | Rel-4 | 001 | F | 1 | 4.0.0 | 4.1.0 | CSSPLIT |
| N3-010341 | 29.414 | Transport of data in the luFP | Rel-4 | 003 | F | 2 | 4.1.0 | 4.2.0 | CSSPLIT |
| N3-010345 | 09.61 | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | R97 | A017 | F | 1 | 6.4.0 | 6.5.0 | GPRS |
| N3-010347 | 29.061 | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | R99 | 022 | A | 1 | 3.6.0 | 3.7.0 | GPRS |
| N3-010348 | 29.061 | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | Rel-4 | 021 | A | 4 | 4.1.0 | 4.2.0 | GPRS |
| N3-010343 | 09.61 | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | R98 | A018 | A | | 7.3.0 | 7.4.0 | GPRS |

12.4 New TRs / TSs

| TDoc # | Number | Owner | C-Ver | Rel | Title | Rapporteur | Company |
|-----------|--------|-------|-------|-------|--|------------|---------|
| N3-010337 | 29.163 | CN3 | 0.2.0 | Rel-5 | Interworking between the IM CN subsystem and CS networks | | |
| N3-010335 | 29.207 | CN3 | 0.1.0 | Rel-5 | Policy control over Go interface | | |

12.5 Other

| TDoc # | Tdoc Title | Notes |
|--------|------------|-------|
| | | |

12.6 Summary of CN3#18 Action Points

Includes all open action from previous meetings

| ACTION NUMBER | OWNER | DESCRIPTION | TARGET DATE | NOTES | STATUS |
|---------------|-----------------|---|------------------------------|-------|--------|
| N3_18_01 | Norbert Klehn | Inform the 3GPP IETF coordinator of these changes to CN3's IETF dependencies | before CN3#19 | | OPEN |
| N3_18_02 | All Rapporteurs | Update their specifications following the GERAN proposal on terminology and provide CRs | before CN3#19 | | OPEN |
| N3_18_03 | Thomas Belling | Monitor the RAN3 Work on Lu UP version negotiation, provide CR to 29.415 as required | before CN3#19 | | OPEN |
| N3_18_04 | Rune Wiik | Distribute CR003r1 to 29.414 v4.1.0 on " Addition of media type "data" to email for comments/approval | Before 18 th July | | OPEN |
| N3_18_05 | Juha Räsänen | Distribute the CR021r2 to 29.061 v4.1.0 " on RADIUS to CN3 email for comments/approval before CN3#19 | Before 18 th July | | OPEN |
| N3_18_06 | David Sanders | Provide examples of the proposed tables in 29.163 for comments to the CN3 email list | before CN3#19 | | OPEN |
| N3_18_07 | David B. | Distribute the updated project plan to CN3 email | before CN3#19 | DONE | OPEN |
| N3_18_08 | David B. | Provide the updates made to the project plan to Alain Sultan | before CN3#19 | DONE | OPEN |
| N3_18_09 | David B. | Check all CN3 specifications and feed back the changes to the 3GPP specifications manager | before CN3#19 | | OPEN |

13 Any other business

Norbert announced the elections of the CN3 vice chairman to be held in CN3#19 meeting. There is so far one candidate for the position, Mr Graham Heaton of RTS Wireless.

Candidates for the two positions are welcomed. Letters/Candidatures should be sent to David Boswarthick. david.boswarthick@etsi.fr, MCC and Norbert CN3 chair. norbert.klehn@icn.siemens.de

14 Close of meeting

Norbert closed the 18th CN3 meeting on Friday 13th July at 12:15, 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#18 meeting.

| | | | |
|------------------------------|--------------------------------|--------------------|--------------------------------------|
| Dr. HansPeter Schwefel | SIEMENS AG | +49 89 72259890 | Hans.Schwefel@icn.siemens.de |
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| Miss Dana Schneider | MANNESMANN Mobilfunk GmbH | 492 115 332 856 | dana.schneider@d2vodafone.de |
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| Mr. Graham Heaton | RTS Wireless International Ltd | 441 908 800 360 | gheaton@aethersystems.com |
| Mr. Idreas Mir | QUALCOMM EUROPE S.A.R.L. | 18 586 518 333 | imir@qualcomm.com |
| Mr. Juha Räsänen | KIA Corporation | +358 40 543 9058 | juha.a.rasanen@kia.com |
| Mr. Laurent Andriantsiferana | Cisco Systems Inc. | 14 088 534 709 | landrian@cisco.com |
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| Mr. Stephen Hayes | Ericsson Inc. | 19 725 835 773 | stephen.hayes@ericsson.com |
| Mr. Vincent PIERRE | BOUYGUES Telecom | +33 1 39 45 41 45 | vpierre@bouyguestelecom.fr |
| Mr. WOYONG CHOI | SK Telecom | 82112934561 | wychoi@sktelecom.com |
| Mr. Yukio Kawanami | NEC Corporation | 81471856706 | kawanami@cj.jp.nec.com |
| Mrs. Celine BONNEL | NORTEL NETWORKS (EUROPE) | +44 1628 43 47 34 | celine.bonnel@nortelnetworks.com |
| Mrs. Johanna Wild | MOTOROLA GmbH | +49 89 92103 177 | johanna.wild@motorola.com |

Annex B: List of documents

Details can also be found in the file *N3_18_Tdoc_list.xlsx* on the meeting server.

| TDoc # | Ag. | Type | Tdoc Title | Source | Spec | Rel | Status |
|-----------|------|-----------|--|------------|--------|-------|-----------------|
| N3-010250 | 2 | AGENDA | Draft Agenda for CN3#18 | CN3 Chair | | | APPROVED |
| N3-010251 | 4.1 | REPORT | Meeting Report of CN3#17[Puerto Rico] | MCC | | | APPROVED |
| N3-010252 | 4.1 | REPORT | Status Report of CN3 to CN#12 | CN3 Chair | | | NOTED |
| N3-010253 | 4.2 | REPORT | Brief notice from CN#12 plenary to CN3 | CN3 Chair | | | NOTED |
| N3-010254 | 4.2 | REPORT | Draft Report of CN#12 | MCC | | | NOTED |
| N3-010255 | 4.2 | REPORT | CN#12 Status Report to SA (Slides) | CN Chair | | | NOTED |
| N3-010256 | 4.3 | REPORT | IETF Status Report | IETF Coord | | | DISCUSSED |
| N3-010257 | 6 | LS IN | LS on terminology clarifications | GERAN | | | NOTED |
| N3-010258 | 9.3 | WID | WID on e2e QoS stage 3 | CN3 | | | REVISED TO 0327 |
| N3-010259 | 11.4 | INFO | Proposed Schedule for 2002 CN Plenary and Joint WG Meetings | CN | | | NOTED |
| N3-010260 | 11.2 | INFO | CR to 01.01: "GSM Release 1999 specifications. | MCC | | | NOTED |
| N3-010261 | 11.2 | INFO | Specification status list prior to meeting | MCC | | | NOTED |
| N3-010262 | 11.2 | INFO | Spec numbers and titles | MCC | | | NOTED |
| N3-010263 | 11.1 | WORK PLAN | Latest version of 3GPP work plan | MCC | | | REVISED TO 0338 |
| N3-010264 | 3 | DAD | Alloc of tdoc to agenda items [before meeting] | CN3 Chair | | | NOTED |
| N3-010265 | 6 | LS IN | Response to LS S2-010798r2 -- [N1-010888] | CN1_Joint | | | NOTED |
| N3-010266 | 6 | LS IN | Response to Liaison Statement on the IM Call Transfer Service N1-010890 -- [S3-010292] | S3 | | | NOTED |
| N3-010267 | 6 | LS IN | Liaison Statement on "lu UP version negotiation [N4-010695] | CN4 | | | NOTED |
| N3-010268 | 6 | LS IN | WI on the End-to-End QoS Architecture for Release 5 [S2-011098] | S2 QoS | | | NOTED |
| N3-010269 | 6 | LS IN | LS on IM Call Transfer service [N1-010890] | N1 | | | NOTED |
| N3-010270 | 7.1 | CR | Removal of erroneous IR value | Ericsson | 27.001 | Rel-4 | REVISED TO 0304 |
| N3-010271 | 7.1 | CR | Removal of erroneous IR value | Ericsson | 27.001 | R99 | AGREED |
| N3-010272 | 8 | CR | Removal of erroneous information in B.1.3.1.6 | Ericsson | 27.001 | Rel-4 | REVISED TO 0307 |
| N3-010273 | 9.4 | CR | Fallback to speech enhancements | Ericsson | 27.001 | Rel-5 | WITHDRAWN |

| TDoc # | Ag. | Type | Tdoc Title | Source | Spec | Rel | Status |
|-----------|-------------|----------------|---|---------------------|--------|-------|-----------------|
| N3-010274 | 9.4 | CR | Fallback to speech enhancements | Ericsson | 29.007 | Rel-5 | WITHDRAWN |
| N3-010275 | 9.4 | Discussion | Fallback from UDI multimedia and toggling between speech and multimedia | Ericsson | | Rel-5 | NOTED |
| N3-010276 | 9.4 | LS OUT | Draft LS to CN1 on Fallback to speech enhancements | Ericsson | | Rel-5 | WITHDRAWN |
| N3-010277 | 8.4 | DISCUSSION DOC | Standard method for information delivery between GPRS and external PDN using RADIUS | NOKIA | | | NOTED |
| N3-010278 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address...) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | REVISED TO 0309 |
| N3-010279 | 9.2 | DISCUSSION DOC | Extending the scope of 29.163 to include SIP-BICC interworking | Ericsson | 29.163 | Rel-5 | REVISED TO 0312 |
| N3-010280 | 9.1 | DISC | Transcoding for IMS to IP network sessions | BT | | | NOT AGREED |
| N3-010281 | 9.2 | DISC | User Plane protocol stacks for IMS to PSTN Interworking | BT | | | DISCUSSED |
| N3-010282 | 9.1 | DISC | H.323 to IMS SIP Interworking | BT | | | REVISED TO 0331 |
| N3-010283 | 9.3 | DISC | Proposal on the work split of "End-to-end QoS Stage 3" among CN and RAN working groups | Lucent Technologies | | | REVISED TO 0318 |
| N3-010284 | 9.3 | TS | Proposed draft TS 29.207 on "Policy control over Go interface" | Lucent Technologies | | | AGREED |
| N3-010285 | 9.2 | DISCUSSION DOC | Message and content presentation | VODAFONE | | | NOTED |
| N3-010286 | 9.3 | DISCUSSION DOC | General requirements for the Go Interface | VODAFONE | | | AGREED |
| N3-010287 | 9.3 | DISCUSSION DOC | Detailed requirements for the Go Interface | VODAFONE | | | NOT AGREED |
| N3-010288 | 9.4 or 10.4 | CR | Handling of BNC IE IMT2000 | Ericsson L.M. | 29.414 | Rel-5 | WITHDRAWN |
| N3-010289 | 8.3 | CR | Clarification on FQC handling and alignment with TS 25.415 | Siemens | 29.415 | Rel-4 | REVISED TO 0302 |
| N3-010290 | 8.3 | DISCUSSION DOC | Enhancements on IP Transport on the Nb interface to support MPLS | Siemens | | | |
| N3-010291 | 6 | LS IN | Re. N1-890 on IM Call Transfer Service [S5-010324] | S5 | | | NOTED |
| N3-010292 | 9.1 | DISCUSSION DOC | Transport Plane Interworking for the Gi interface | Motorola | | | NOTED |
| N3-010293 | 8 | CR | Negotiation of Rate adaptation/Other rate adaptation | Ericsson | 27.001 | Rel-4 | REVISED TO 0306 |
| N3-010294 | 7.1 | CR | Negotiation of Rate adaptation/Other rate adaptation | Ericsson | 27.001 | R99 | REVISED TO 0305 |
| N3-010295 | 8.3 | CR | Addition of media type "data" | Ericsson | 29.414 | Rel-4 | REVISED TO 0303 |
| N3-010296 | 8.4 | DISC | Further considerations for standardising information delivery between GPRS and external PDN using RADIUS. | VODAFONE | | | NOTED |
| N3-010297 | 6 | LS IN | LS on IMS [S2-011685] | SA2 | | Rel-5 | NOTED |
| N3-010298 | 6 | LS IN | LS on Future proof specification of the Go interface [S2-011167] | SA2 | | Rel-5 | NOTED |
| N3-010299 | 8.4 | DISCUSSION DOC | Comments on proposed 'Standard method for information delivery between GPRS and external PDN using RADIUS' | Siemens | | | |

| TDoc # | Ag. | Type | Tdoc Title | Source | Spec | Rel | Status |
|-----------|-----|----------------|--|-------------|--------|-------|------------------|
| N3-010300 | 3 | DAD | Alloc of tdoc to agenda items [09:00 Day1] | CN3 Chair | | | NOTED |
| N3-010301 | | WID | Proposed work item description sheet for Service Change and UDI Fallback | Ericsson | | | REVISED TO 0321 |
| N3-010302 | 8.3 | CR | Clarification on FQC handling and alignment with TS 25.415 | Siemens | 29.415 | Rel-4 | AGREED |
| N3-010303 | 8.3 | CR | Addition of media type "data" | Ericsson | 29.414 | Rel-4 | REVISED TO 0341 |
| N3-010304 | 7.1 | CR | Removal of erroneous IR value | Ericsson | 27.001 | Rel-4 | AGREED |
| N3-010305 | 7.1 | CR | Negotiation of Rate adaptation/Other rate adaptation | Ericsson | 27.001 | R99 | AGREED |
| N3-010306 | 7.1 | CR | Negotiation of Rate adaptation/Other rate adaptation | Ericsson | 27.001 | Rel-4 | AGREED |
| N3-010307 | 7.1 | CR | Removal of erroneous information in B.1.3.1.6 | Ericsson | 27.001 | Rel-4 | AGREED |
| N3-010308 | 7.1 | CR | Removal of erroneous information in B.1.3.1.6 | Ericsson | 27.001 | R99 | AGREED |
| N3-010309 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | REPLACED BY 0333 |
| N3-010310 | 6 | LS IN | Transmission of user identity from a GGSN to MMS Relay/Server | T2 | | | NOTED |
| N3-010311 | 9.2 | LS OUT | LS on User Plane protocol stacks for IMS to PSTN Interworking | CN3 | | | APPROVED |
| N3-010312 | 9.2 | DISCUSSION DOC | Extending the scope of 29.163 to include SIP-BICC interworking | Ericsson | 29.163 | REL-5 | AGREED |
| N3-010313 | 9.2 | WID | Updated WID for Interworking between IM Subsystems and CS | BT | | | REVISED TO 0329 |
| N3-010314 | 9.2 | DISCUSSION DOC | PROPOSED LAYOUT FOR NEW RECOMMENDATION Q.1912.SIP | ITU-T SG.11 | | | NOTED |
| N3-010315 | 9.2 | TS | Updates to 29.163 for BICC | BT/Ericsson | 29.163 | | REVISED TO 0337 |
| N3-010316 | 8.4 | DISCUSSION DOC | Definition of RADIUS attributes | Cisco | | | WITHDRAWN |
| N3-010317 | | LS OUT | LS to SA2 on Requirement for QoS for CE IW. | CN3 | | | REVISED TO 0328 |
| N3-010318 | 9.3 | DISC | Proposal on the work split of "End-to-end QoS Stage 3" among CN working groups | CN3 | | | REVISED TO 0319 |
| N3-010319 | 9.3 | DISC | Proposal on the work split of "End-to-end QoS Stage 3" among CN working groups | CN3 | | | REVISED TO 0326 |
| N3-010320 | 6 | LS IN | Answer to LS on lu UP version negotiation | RAN3 | | | NOTED |
| N3-010321 | | WID | Proposed work item description sheet for Service Change and UDI Fallback | Ericsson | | | REVISED TO 0336 |
| N3-010322 | | LS OUT | LS to SA2 on transcoding | CN3 | | | REVISED TO 0330 |
| N3-010323 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | REVISED TO 0333 |
| N3-010324 | 8.4 | LS OUT | LS on the RADIUS Solution for information delivery (Response to LS IN T2-010606) | Graham | | | APPROVED |
| N3-010325 | 9.3 | [CR] | Detailed Requirements for the Go Interface | Vodafone | 29.207 | Rel-5 | AGREED |

| TDoc # | Ag. | Type | Tdoc Title | Source | Spec | Rel | Status |
|-----------|------|-----------|--|--------------|--------|-------|-----------------------|
| N3-010326 | 9.3 | DISC | Proposal on the work split of "End-to-end QoS Stage 3" among CN working groups | CN3 | | | AGREED |
| N3-010327 | 9.3 | WID | WID on e2e QoS stage 3 | CN3 | | | REVISED TO 0334 |
| N3-010328 | | LS OUT | LS on Requirement for QoS for CE IW. | CN3 | | | APPROVED |
| N3-010329 | 9.2 | WID | Updated WID for Interworking between IM Subsystems and CS | CN3 | | | AGREED |
| N3-010330 | 9.1 | LS OUT | LS on IMS to IP Networks Interworking Functions | CN3 | | | APPROVED |
| N3-010331 | 9.1 | DISC | H.323 to IMS SIP Interworking | BT | | | AGREED |
| N3-010332 | 9.1 | WID | Interworking between IM CN subsystem abd IP networks | CN3 chairman | | | AGREED |
| N3-010333 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | REVISED TO 0340 |
| N3-010334 | 9.3 | WID | WID on e2e QoS stage 3 | CN3 | | | AGREED |
| N3-010335 | 9.3 | TS | Clean version of 29.207 | Rapporteur | 29.207 | Rel-5 | e-mail |
| N3-010336 | | WID | Proposed work item description sheet for Service Change and UDI Fallback | Ericsson | | | AGREED |
| N3-010337 | 9.2 | TS | Updates to 29.163 for BICC | BT/Ericsson | | | AGREED |
| N3-010338 | 3 | DAD | Alloc of tdoc to agenda items [end meeting] | CN3 Chair | | | NOTED |
| N3-010339 | 11.1 | WORK PLAN | Latest version of 3GPP work plan | MCC | | | e-mail |
| N3-010340 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | REVISED TO 0348 |
| N3-010341 | 8.3 | CR | Transport of data in the IuFP | Ericsson | 29.414 | Rel-4 | AGREED |
| N3-010342 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 09.61 | R97 | REVISED TO 0345 |
| N3-010343 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 09.61 | R98 | E-Mail APPROVAL UNTIL |
| N3-010344 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | R99 | REVISED TO 0347 |
| N3-010345 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 09.61 | R97 | E-Mail APPROVAL UNTIL |
| N3-010346 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 09.61 | R98 | REVISED TO 0346 |
| N3-010347 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | R99 | E-Mail APPROVAL UNTIL |
| N3-010348 | 8.4 | CR | Standard method for information delivery (MSISDN; IP address) between GPRS and external PDN using RADIUS | NOKIA | 29.061 | Rel-4 | E-Mail APPROVAL UNTIL |
| N3-010349 | | | | | | | |
| N3-010350 | | | | | | | |

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 send 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 | |
|---------------------------------|--|
| 17 th July 2001 | Draft v1.0.0 distributed to CN3 chairman for comments |
| 19 th July 2001 | <p>DRAFT v1.1.0 dispatched by e-mail exploder to the CN3 list.</p> <p>Comments, if any, to be addressed to:</p> <p>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 2 weeks was given to the CN3 delegates for e-mail comments on the draft report.</p> <p style="text-align: center;">Comments back by 5th August 2001</p> |
| 13 th September 2001 | Updated DRAFT v2.0.0 placed to the server |
| 26 th July 2001 | N3-010xxx[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#14 meeting. Updated to N3-000xyz and placed to the server as v3.0.0. |