Third Generation Partnership Project

MEETING REPORT v3.0.0

3GPP TSG-CN3
Meeting # 19

Brighton, U.K.
15th - 19th October 2001

Hosted by

BT, Hutchinson 3G, Lucent, Orange, and 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 19th CN3 meeting took place from 15th - 19th September in Brighton, UK.

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

The CN3 Chairman Mr. Norbert Klehn, opened the meeting at 09:00 on Monday 15th. He set the objectives for the meeting as follows:

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

2   Approval of the Agenda

N3-010353:   **CN3#19 Draft Meeting Agenda.** Presented by the CN3 Chairman.

CONTENT: Contains the draft Agenda for CN3#19 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:-

Wed, Sept 17   09:00 - 23.218: CN1 + any other interested WGs

14:00 - 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_19_Brighton/

N3-010361:   **Allocation of documents to Agenda items for CN3#19 (start day1).** Presented by CN3 Chairman.

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

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

N3-010362:   **Updated Allocation of documents to Agenda items for CN3#19 (EoB day1).** Presented by CN3 Chairman.

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

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

N3-010363:   **Updated Allocation of documents to Agenda items for CN3#19 (EoB day2).** Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items considering the new/revised documents received at the end of the day2 session.

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

N3-010364:   **Updated Allocation of documents to Agenda items for CN3#19 (EoB day4).** Presented by CN3 Chairman.

CONTENT: Shows the allocation of meeting documents to agenda items considering the new/revised documents received at the end of the day4 session.

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

4 Reports

4.1 CN3#18 Meeting Report, (Dresden)

N3-010354: **CN3#18 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the draft meeting report for the CN3#18 held in Dresden.

The CN3#18 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.

Revised version includes the output of the email discussions following the Dresden meeting.

RESULT: The document was **REVISED to 0441 before presentation.**

? REVISED ?

N3-010441: **CN3#18 Draft Meeting Report.** Presented by David Boswarthick, MCC.

RESULT: The document was **APPROVED and the report placed to the meeting server.**

Review of action items from CN3#18:

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	E-mail to Ileana and Alain Sultan	DONE
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 Iu 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 18th July		DONE
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 18th July		DONE
N3_18_06	David Sanders	Provide examples of the proposed tables in 29.163 for comments to the CN3 email list	before CN3#19		DONE
N3_18_07	David B.	Distribute the updated project plan to CN3 email	before CN3#19		DONE
N3_18_08	David B.	Provide the updates made to the project plan to Alain Sultan	before CN3#19		DONE
N3_18_09	David B.	Check all CN3 specifications and feed back the changes to the 3GPP specifications manager	before CN3#19		DONE

4.2 Reports from Last CN Meeting

N3-010368: **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#13 (Beijing) meeting.

RESULT: The document was **NOTED**

N3-010355: **NP#13 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report from the NP#13 meeting.

RESULT: The document was **NOTED**

N3-010357: **Brief notice from CN#13 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#13.

Some of the more important information from this document:-

?? *CN3's change requests in NP-010438 (CS Bearers) and NP-010439 (CS SPLIT) were approved as provided by CN3. The change requests in NP-010440 (GPRS-RADIUS) were slightly modified, mainly because of formal reasons to follow the drafting rules. The approved document is NP-010530.*

?? *The Work Item description sheets on "Interworking IMS with IP" (NP-010434) and on "Interworking IMS with CS" (NP-010435) were approved as provided by CN3.*

?? *The Work Item description sheet on "end to end QoS, stage 3" provided in NP-010437 was modified in MMI section 6 to indicate that there is no impact on any MMI specification. It was further modified in section 10 to describe the scope of TS ab.cde in more detail. It was finally approved as in NP-010528.*

?? *The Work Item description sheet on "Service Change and UDI Fallback" provided in NP-010436 was modified. Text describing the intended solution was removed or declared as example or possibility. The approved Work Item description sheet is contained in NP-010527.*

?? *A contribution raised up an issue concerning the inconsistency of TS 23.054 on "Shared Interworking Function" with other specifications. CN#13 decided to remove this specification from R99 onwards. Other Working Groups are informed by this decision in a Liaison Statement (NP-010526).*

RESULT: The document was **NOTED**

4.3 Reports from Other Groups

N3-010356: **SA#13 Draft Meeting Report.** Presented by David Boswarthick, MCC.

CONTENT: Contains the latest version of the draft meeting report from the SA#13 meeting.

RESULT: The document was **NOTED.**

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

N3-010382: **LS IN from SA5 on " Access Point Name usage" [S5B010537].**

CONTENT: SA5 is using the Access Point Name (APN) Network Identifier and Operator Identifier parameters in its charging specification for the PS domain (Rel-4 3GPP TS 32.215) and has determined the format of these parameters in the CDRs.

SA5 propose to all CN and SA WGs to take any necessary action to ensure that there are no contradictions or potential ambiguities between your Technical Specifications and our TS 32.215.

DISCUSSION: No Impact on CN3's specifications.

RESULT: The document was **NOTED.**

N3-010383: **LS IN from SA5 on " Reply to LS on basic and advanced services examples (S1-010271/ S5-010302)" [S5-010413].**

CONTENT: SA5 indicate to SA1 that they will continue with their work on telecoms management in the domain of IP multimedia services.

DISCUSSION: No Impact on CN3's specifications.

RESULT: The document was **NOTED.**

N3-010384: **LS IN from SA5 on " Re. to SA2 Liaison "WI on the End-to-End QoS Architecture for Release 5" [S5-010412].** Presented by Daisuke Yokota of Lucent.

CONTENT: SA5 has already begun the work identified by SA2 in the work item description by incorporating an Overview of QoS Management in TS 32.101 V410

DISCUSSION: Daisuke has examined the attached TS32.101 and suggests that it is a very useful specification that relates to CN3's work on QoS and more specifically COPS.

Figure D.2 "QoS Provisioning" is relevant to CN3's discussion on COPS selection. SA5 are using COPS for management functions. However their work in this are is in a very early stage.

CN3 will await SA2's response to this LS, and only take note of the work within SA5.

RESULT: The document was **NOTED.**

N3-010385: **LS IN from SA2 on " Re. to N3-010328 LS requesting Clarification on QoS for the Interworking between the IMS and CS networks." [S2-012461].** Presented by Kamel Shaheen of Interdigital.

CONTENT: SA2 have received above referenced LS at their meeting #19 and would like to respond with the following information to clarify the issue of QoS for interworking between IMS and CS network:

- ?? *The End-to-End QoS involving interworking between the IMS and CS networks is required.*
- ?? *There is no impact on legacy CS network. The CS network has a well defined mechanism for QoS.*
- ?? *The MGCF and MGW along with the IMS network should behave as UE front end to the CS network.*
- ?? *Currently, there are no requirements for the MGW to support RSVP signalling.*

DISCUSSION: Juha Räsänen [Nokia] asked if we need some translation in the MGW for the RSVP - CS service. Also there may be some mapping requirements between CS and IP legs. Kamel Shaheen [Interdigital] agreed that this would be a requirement.

Juha Räsänen [Nokia] recapped that this will be an additional interface at which we need to provide QoS mapping (at the IMS-CS interface).

It was noted that there was a SA2 drafting meeting last week [8-12 Oct] to discuss various QoS topics. Norbert provided a draft meeting report for this session (see N3-010453, N3-010454 and N3-010466).

Also it was mentioned that SA2 will be meeting in Cancun at the same time as CN3 in November. This may present an opportunity to resolve any open issues especially regarding the reduction of the number of scenarios for QoS.

RESULT: The document was **NOTED.**

N3-010386:   **LS IN from SA2 on "MS to IP interworking functions" [S2-012460].** Presented by Nigel Holland of BT.

CONTENT: **It is recommended that CN3 follows these guidelines in IMS to IP interworking.**

If interworking to non PSTN end points is required, the following network entities may be involved:
- ?? For the C plane: SCSCF, MGCF, MRFC
- ?? For the U plane: MGW (IMS MGW), MRFP

CN3 should note that SA2 still has to assess what (if any) interworking cases are required to be supported between 3PP IMS UE and non 3GPP IP network based end points.

ACTIONS: 1) SA2 asks CN3 to follow ongoing work on SIP in CN1 to ensure interoperability with non-3GPP SIP networks.

2) SA2 asks CN3 to study the ongoing work on interworking between SIP and non SIP networks [work ongoing in IETF].

3) SA2 asks CN3 to consider the ongoing work between Ipv6 and Ipv4 from a 3GPP IMS interworking perspective [work ongoing in IETF].

4) For points two and three CN3 may have to consider ongoing work from outside standard bodies and forum.

5) SA2 asks SA4 to guide CN3on the likely types of codec utilised within standard SIP and H323 end points [work ongoing in IETF].

DISCUSSION: Thomas Belling [Siemens] questioned if CN3 should await SA2's assessment on interworking cases before starting the stage 3 work. This could possibly be addressed in the Cancun meeting when SA2 will be close-by. Thomas has an input document [see N3-010425], that responds to SA1s guidance that we should avoid duplicate work with CN1.

Kamel Shaheen [Interdigital], stated that CN3 should push SA2 to complete the assessment on interworking cases in order to avoid delays in CN3's work.

RESULT: The document was **NOTED.**

N3-010388:   **LS IN from SA2/GERAN joint on " Signalling Transparency" [OSV-01043].**

CONTENT: In the LS, GERAN asks for guidance on the case of a IMS user in a communication exchange to a non SIP user where a signalling translator is needed on the control plane to translate SIP messages to the call control used by the other party.

DISCUSSION: Thomas Belling [Siemens] suggested some information we could provide back to GERAN in response to this [see N3-010444].

RESULT: The document was **NOTED.**

N3-010387:   **LS IN from SA2 on " Signalling Transparency" [S2-012321].**

CONTENT: Responds to the above LS. It is SA2's current understanding that there is no requirement for a signalling translator between IP end users in R5 architecture (e.g. for a multi-media session between two 3GPP IMS users). The Mm interface towards external IP networks is based on SIP. In addition, towards the PSTN the combination of the MGCF and SGW converts SIP over IP transport to SS7 transport for CS domain call control signalling (e.g. ISUP) and vice versa. For more information see TS 23.002, also N1 are developing the SIP based signalling aspects between the UE and the PCSCF/SCSCF in 24.228/24.229.

Also, SA2 confirms GERAN's assumption that control plane signalling transition is transparent to the end systems.

DISCUSSION: Thomas will write a LS [N3-010444], to GERAN, SA2 cc CN1 confirming our assumptions (that agree with SA2's), and providing a status update on CN3's work in this area.

RESULT: The document was **NOTED.**

N3-010444:   **LS OUT to GERAN, CN1 and SA2 on " Signalling Transparency".** Presented by Thomas Belling of Siemens

CONTENT: In this LS CN3 asks CN1 to inform SA2 and GERAN of the results of the investigations on the necessity of providing an interworking function between standard SIP and SIP with 3GPP extensions. CN3 also asks CN1 to inform these groups whether the interoperability to external IP networks will be transparent to the UE.

DISCUSSION: The intention of the LS was not to involve CN1 (only cc'd for information). There is too much detail and proposes non-approved concepts to SA2.

CN3 has the working assumption the "Interworking is within the network and transparent to the UE". If CN1 have a different opinion or more information they should inform SA2/GERAN.

Agreed to remove the action on CN1 as well as the information regarding the ongoing study within CN1 that has not yet been approved.

RESULT: The document was **REVISED to 0483.**

? REVISED ?

N3-010483:   **Rev. LS OUT to GERAN, CN1 and SA2 on " Signalling Transparency".** Presented by Thomas Belling of Siemens

RESULT: The document was **APPROVED.**

N3-010389:   **LS IN from SA1 on " IP Based Multimedia Services Framework Report " [S1-010869].**

CONTENT: SA1 has made substantial progress in defining service examples and requirements in the IP Based Multimedia Services Framework Report (TR22.941). The report is very much still a draft and requires further refinement of the existing examples as well as elaboration of additional examples. SA1 work on the Framework Report is ongoing.

However, SA1 is of the opinion that the Framework Report is sufficiently progressed for other groups to begin consideration of input to the Report. Therefore the current version of the Framework Report (version 0.4.0 in SA1-010799) is provided for your information. SA1 respectfully requests that other groups, on which it impacts, begin consideration towards providing input and accordingly include this activity in your work plans.

DISCUSSION: CN3 understands that the TS describes more "service interworking" as opposed to "network interworking". If companies want to contribute to this document they can do so via SA1.

Norbert [CN3 Chair] will contact Randy Wohlert by email to see if SA1 expects feedback from CN3.

RESULT: The document was **NOTED.**

N3-010390:   **LS IN from CN1 on "Re. SIP Signalling and Codec Issues" [N1-011334].**

CONTENT: In this document CN1 answer GERAN regarding some of the issues on SIP Signalling and Codec.

CN3 have been copied due to the open issue regarding the mechanisms that can enforce the use of an AMR mode that can be carried on a physical HR channel (i.e. AMR 795 or lower) within the RTP for carrying Optimised Voice in GERAN.

RTP is within the domain of CN3 and CN1 requests CN3 and SA4 to respond with a definitive answer to this question.

DISCUSSION: CN3 has not yet studied this issue. It was mentioned that SA4 has already done something concerning the transport. Thomas Belling volunteered to write a LS [N3-010446] back to CN1 and SA4 informing them of this.

RESULT: The document was **NOTED.**

N3-010446: **LS OUT to GERAN, SA2 and SA4 on SIP Signalling and Codec Issues.** Presented by Thomas Belling of Siemens.

RESULT: The document was **APPROVED.**

N3-010391: **LS IN from SA2 on "User Plane for IMS to PSTN Interworking" [S2-012319r4].** Presented by Nigel Holland of BT.

CONTENT: SA2 confirms that CN3's working assumptions are correct with regard to the protocol stack supported by the MGW, though SA2 would like to inform that the "PSTN" networks can support other than G.711 with 64Kbs PCM as other transport technologies can be deployed on the PSTN and other circuit switched networks.

However it has been commented during the SA2 discussion that at least for Header Compression and possibly for UEP / possible AMR Rate Control, UTRAN cannot be transparent to the ietf-avt -rtp-amr framing/ RTP/UDP/IP stack. An example of the stack is provided.

DISCUSSION: This is the answer that CN3 were expecting, and now CN3 may continue with their work on IMS-CS interworking.

Thomas Belling [Siemens] indicated that the header compression is not a concern for CN3 with regards to interworking.

It was agreed to include into TS 29.163 a sub-set of the figure on the User Plane between UE and MGW. We do not need to look beyond the Gi interface.

CN3 have only considered the case of G.711, however SA2 indicate that there are other codec types in the fixed network. It was not possible to decide if these also needs to be considered in CN3s specifications.

♣♣**[ACTION N3_19_01] - Contributing companies are asked to consider the impact of additional CODECs in the fixed network on CN3s work on interworking. Feedback by CN3#20 meeting.**

RESULT: The document was **NOTED.**

N3-010392: **LS IN from CN Plenary on "Removal of SWIF" [NP-010526].** Presented by CN3 chair.

CONTENT: SIWF shall be deleted from R99 and onward. CN Plenary kindly requests the deletion of TS 23.054 from the R99 specification set, and requests CN3 to investigate the possible impacts to other specifications for R99 and onwards. If impacts are detected, please would they amend them in order to fulfil the removal of the SIWF from the specifications.

DISCUSSION:

♣♣**[ACTION N3_19_02] - All rapporters to examine their specifications and delete any references to SWIF in R99 and onwards. CRs required by CN3#20 meeting.**

♣♣**[ACTION N3_19_03]- DAB will ensure 23.054 is deleted from the list of specifications for R99 and onwards.**

RESULT: The document was **NOTED.**

7 Release 99 and earlier:

NOTE: R99 and earlier releases have been <u>Functionally Frozen</u>.

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

N3-010401: **CR042 to 29.007 v3.8.0 " Removal of Shared IWF ".** Presented by Norbert Klehn of Siemens.

CONTENT: Contains **(CAT F)** CR that "removes references to all 23.054 and SWIF"

RESULT: The document was **AGREED.**

N3-010402: **CR043 to 29.007 v4.2.0 " Removal of Shared IWF ".** Presented by Norbert Klehn of Siemens.

CONTENT: Contains **(CAT A)** CR that "removes references to all 23.054 and SWIF"

RESULT: The document was **AGREED.**

N3-010403: **Discussion e-mail on SDU size for transparent data at 33.6kbit/s** Presented by CN3 Chair.

CONTENT: Norbert was requested by the last CN3 meeting to contact 3GPP T WG1's officials to discuss the issue of determining a value for the SDU size for circuit switched transparent data services at 33.6kbit/s. He has had some e-mail conversation with Hisashi NAKAGOMI from NTT DoCoMo, one of T1's Vice Chairmen.

It was decided, to use an SDU size of 672 bits for the user rate of 33.6kbit/s. This value was selected because every 20 ms an SDU is sent and 33600bit/s * 0.02s = 672bit. With this decision we avoid an additional assembly/re-assembly function. This is in line with the other assignments between user rate and SDU size.

RESULT: The document was **NOTED.**

N3-010404: **CR045 to 29.007 v4.2.0 " SDU size for transparent data at 33.6kbit/s ".** Presented by Norbert Klehn of Siemens.

CONTENT: Contains **(CAT F)** CR that removes the note mentioning the open issue for 33.6kbit/s transparent data.

RESULT: The document was **AGREED.**

N3-010409: **CR069 to 27.001 v4.5.0 " SDU size for transparent data at 33.6kbit/s ".** Presented by Rune Werner Wiik of Ericsson

CONTENT: Contains **(CAT F)** CR that removes the note mentioning the open issue for 33.6kbit/s transparent data.

RESULT: The document was **AGREED.**

N3-010410: **CR031 to 23.910 v4.3.0 " SDU size for transparent data at 33.6kbit/s ".** Presented by Rune Werner Wiik of Ericsson

CONTENT: Contains **(CAT F)** CR that removes the note mentioning the open issue for 33.6kbit/s transparent data.

RESULT: The document was **AGREED.**

7.2 Multimedia

No Input to this agenda item.

7.3 GPRS

N3-010367: **Revised RADIUS CRs as approved at CN#13 Plenary.** Presented by CN3 Chair.

CONTENT: Contains the final CRs that were discussed and agreed by email, presented to CN#13, revised and eventually approved.

RESULT: The document was **NOTED.**

N3-010432: **CR030 to 23.061 v4.2.0 " Correction to 3GPP Vender specify attribute 3GPP-IMSI ".** Presented by David Sanders of Vodafone

CONTENT: Contains **(CAT A)** CR that "Modifies the attribute length to be 2+n, where n represents the variable IMSI length. Modifies the attribute encoding table to include the variable length indicator "n". Adds text to indicate that padding in the GTP IE is to be removed if the IMSI is less than 15 digits"

DISCUSSION: Celine Bonnel [Nortel] had some comments to add to this CR on the way we specify the length. These were agreed and included in a revised document. The corresponding CRs were revised before presentation

RESULT: The document was **REVISED to 0447.**

? REVISED ?

N3-010447: **CR030Rev1 to 23.061 v4.2.0 " Correction to 3GPP Vender specify attribute 3GPP-IMSI".** Presented by David Sanders of Vodafone

DISCUSSION: Incorporates comments from Nortel and Lucent.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010448: **CR029Rev1 to 23.061 v3.7.0 " Correction to 3GPP Vender specify attribute 3GPP-IMSI".** Presented by David Sanders of Vodafone

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010449: **CRA024Rev1 to 09.61 v7.4.0 " Correction to 3GPP Vender specify attribute 3GPP-IMSI".** Presented by David Sanders of Vodafone

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010450: **CR0A23Rev1 to 09.61 v6.5.0 " Correction to 3GPP Vender specify attribute 3GPP-IMSI".** Presented by David Sanders of Vodafone

RESULT: The document was **AGREED.**

N3-010378: **CRA019 to 09.61 v6.5.0 " Correction to the IMSI length and encoding".**

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

N3-010379: **CR023 to 29.061 v4.2.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

CONTENT: Contains **(CAT F)** CR that " proposes to use RADIUS Accounting to update the information related to a PDP context, when this PDP context is being updated."

DISCUSSION: It was mentioned by the author that the CR was not made to the latest version of the specification and needs to be updated.

Celine Bonnel [Nortel] had several comments to the CR:

- in Figure 3 wished to add GGSN "may" send a AccountingRequest Interim

- the list of attribute for Accounting Request Interim-Update should be modified to include some of those in the Accounting-Request Stop.

Juha Räsänen [Nokia] stated that if the text is figure 3 is an example, e.g. should be used and not i.e.

Norbert requested that the new table be numbered and that a title be added.

RESULT: The document was **REVISED to 0451.**

? REVISED ?

N3-010451: **CR023Rev1 to 29.061 v4.2.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

DISCUSSION: Error in the text before table.7.

Vodafone has another CR to this specification and this marks attribute 31 DAVID, MCC has to be careful when implementing the CRs. A note will be added to the CR cover page

RESULT: The document was **REVISED to 0471.**

? REVISED ?

N3-010471: **CR023Rev2 to 29.061 v4.2.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

DISCUSSION: **Note to David B of MCC:** The CR 028 should be implemented on top of this CR.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010472: **CR034 to 29.061 v3.7.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010473: **CRA028 to 09.61 v7 4.0" Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010474: **CRA027 to 09.61 v6 5.0" Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED.**

N3-010443: **CR024Rev1 to 29.061 v4.2.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

CONTENT: Contains **(CAT F)** CR that "proposes to use RADIUS to trigger the termination of a given PDP context in the GGSN".

DISCUSSION: Tony Huynh-Quang [Alcatel] had some concerns with the text of Figure 3. The reaction of the GGSN is optional and the present text does not reflect this. The text was revised. It reflects the fact that the GGSN may react or silently discard the message.

RESULT: The document was **REVISED to 0452.**

? REVISED ?

N3-010452: **CR024Rev2 to 29.061 v4.2.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **REVISED to 0475**

? REVISED ?

N3-010475: **CR024Rev3 to 29.061 v4.2.0 " Standard method for updating information between external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED**

? CORRESPONDING CR ?

N3-010476: **CR044 to 29.061 v3.5.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED**

? CORRESPONDING CR ?

N3-010477: **CRA029 to 09.61 v7.4.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED**

? CORRESPONDING CR ?

N3-010478: **CRA030 to 09.61 v6.5.0 " Standard method for updating information between GPRS and external PDN using RADIUS ".** Presented by Laurent Andriantsiferana of CISCO.

RESULT: The document was **AGREED**

N3-010428: **CR028 to 29.061 v4.2.0 " Correction to the Calling-Station-Id attribute ".** Presented by David Sanders of Vodafone.

CONTENT: Contains **(CAT A)** CR that "changes the presence requirement of the attribute from mandatory to optional."

DISCUSSION: There were some concerns on the requirement to send a 'dummy' MSISDN. More time was requested to check this CR.

Several companies did not support the use of the dummy value.

The corresponding CRs were replaced before presentation to the meeting

RESULT: The document was **REVISED to 0462.**

? REVISED ?

N3-010462: **CR028Rev1 to 29.061 v4.2.0 " Correction to the Calling-Station-Id attribute ".** Presented by David Sanders of Vodafone.

DISCUSSION: Johanna though the former text was better as it included the reference to PRESENCE. David clarified that this was removed to avoid any reference to the unwanted dummy value.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010463: **CR027Rev1 to 29.061 v3.7.0 " Correction to the Calling-Station-Id attribute ".** Presented by David Sanders of Vodafone.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010464: **CRA022Rev1 to 09.61 v7.4.0 " Correction to the Calling-Station-Id attribute ".** Presented by David Sanders of Vodafone.

RESULT: The document was **AGREED.**

N3-010465: **CRA0021Rev1 to 09.61 v6.5.0 " Correction to the Calling-Station-Id attribute ".**
Presented by David Sanders of Vodafone.

RESULT: The document was **AGREED.**

N3-010437: **CRA025 to 09.61 v6.5.0 " Correction to 3GPP vendor specific attributes containing MCC-MNC ".** Presented by David Sanders of Vodafone.

CONTENT: Contains **(CAT F)** CR that "Modifies the length of the attributes 3GPP-IMSI-MCC-MNC and 3GPP-GGSN-MCC-MNC by including n, where n will be either 7 or 8 octets in length depending on the length of MNC. Includes an indication that MNC digit 3 may not be present. Also adds text to indicate that there will be no padding of characters between the MCC and MNC."

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010438: **CRA026 to 09.61 v7.4.0 " Correction to 3GPP vendor specific attributes containing MCC-MNC ".** Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding **(CAT F)** CR.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010439: **CR031 to 29.061 v3.7.0 " Correction to 3GPP vendor specific attributes containing MCC-MNC ".** Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding **(CAT F)** CR.

RESULT: The document was **AGREED.**

? CORRESPONDING CR ?

N3-010440: **CR032 to 29.061 v4.2.0 " Correction to 3GPP vendor specific attributes containing MCC-MNC ".** Presented by David Sanders of Vodafone.

CONTENT: Contains the corresponding **(CAT F)** CR.

RESULT: The document was **AGREED.**

7.4 Technical Enhancements & Improvements (TEI)

N3-010369: **Discussion document on Mobile terminated call with single numbering scheme.**
Presented by Juha Räsänen of Nokia.

CONTENT: The contribution hi-lights a problem-causing non-compliancy between CN1's and CN3's specifications concerning a mobile terminated call in a mobile network with the single numbering scheme, and further to propose a measure to eliminate the non-compliancy and enhance the success rate of mobile terminated multimedia calls.

DISCUSSION: Rune Werner Wiik stated that Ericsson also recognise this a real problem. However he wanted to know why *only multimedia calls* are addressed in the CRs. Juha responded that Nokia would also support a more general approach. Rune suggested that we may wish to develop such a general solution with CRs presented at the next CN3 meeting.

Norbert Klehn [Siemens] would like to see a solution that covers all calls and not only multimedia calls. This present solution could be *only* the first step (i.e. by sending the ITC value) and it has some drawbacks. Siemens cannot agree with the proposed solution although they support the requirement for a more general solution.

The document has been seen by CN1 who also believe that a more global solution is required. It was proposed to discuss this document again in the joint session with CN1.

RESULT: The document was **NOTED.**

N3-010370: **CR068 to 27.001 v3.10.0 " Mobile terminated call with single numbering scheme".** Presented by Juha Räsänen of Nokia.

RESULT: The document was **WITHDRAWN.**

N3-010371: **CR041 to 29.007 v3.8.0 " Mobile terminated call with single numbering scheme".** Presented by Juha Räsänen of Nokia.

RESULT: The document was **WITHDRAWN.**

N3-010372: **CR [presented for information] to 24.008 v3.8.0 " Mobile terminated call with single numbering scheme".** Presented by Juha Räsänen of Nokia.

RESULT: The document was **WITHDRAWN.**

8 Release 4:

NOTE: Release 4 has been <u>Functionally Frozen</u>.

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.

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

N3-010424:	**CR004 to 29.414 v4.2.0 " Correction of inconsistency regarding RTP clock frequency ".** Presented by Thomas Belling of Siemens.
CONTENT:	Contains **(CAT F)** CR that "restricts RTP clock frequency to 16000 Hz, no multiples"
RESULT:	The document was **AGREED.**

8.4 T.E.I for Rel-4.

No contributions to this agenda item.

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

N3-010425:   **Extent of the specification work in 3GPP for IMS to IP interworking.** Presented by Thomas Belling of Siemens.

CONTENT: The document describes the current status of work on interworking between IMS and IP networks, which is in an early phase. Initial contributions concentrated on interworking between SIP and H.323 and interconnecting IMS to external IPv4 networks.

There are activities in external bodies, e.g. the IETF, which cover some of the work included in the 3GPP work item. In order to benefit as much as possible from the work of external bodies, 3GPP should only address issues that are specific to the IMS, or where external bodies do not provide solutions that satisfy all the requirements of the IMS.

The wide scope of this work item justifies concerns whether it is possible to finish the work in the Rel.5 timescale [March 2002]. By identifying the parts of the work item, which can only be addressed within 3GPP, and possibly by identifying high priority topics within this set, a provisioning of at least the most important parts of the functionality within Rel.5 may become more feasible.

The contribution discusses for each of the topics included in the current work item, how much of the functionality is handled by external standardisation bodies and how much should be addressed in 3GPP and proposes a minimal set of topics to be handled by 3GPP.

With this approach, this contribution follows the suggestions in the incoming "LS from SA2 [N3-010386] on IMS to IP interworking functions".

IMS SIP to standard SIP interworking as defined in TS 24.229. Is presently being done in CN1. They are completing the 3GPP parts of the tables, and CN3 have to provide the interworking between "IMS SIP" to standard SIP interworking, and this needs to be done in close cooperation with CN1.

Interworking to Ipv4, NATs and firewalls. Current external IP networks use IP version 4 ("Ipv4") almost exclusively, but the IMS uses IP version 6 ("Ipv6"). An interworking between the IMS and external (i.e. outside the IMS) SIP servers and/or servers is necessary, and will include an IP version conversion in many case. Questions related to interworking between an SIP/IPv6 and an SIP/IPv4 network and the traversal of SIP through firewalls and NATs are related to each other and addressed within the IETF.

3GPP may require particular functionality: For instance, a traversal of authentication of certain SIP messages through firewalls is probably required in order to allow the billing of mobile terminating calls from external IP networks.

The Drafts on "Interworking to Ipv4, NATs and firewalls" have been submitted by private individuals and are not yet stable.

Nigel Holland [BT] mentioned that these are missing from CN3's IETF dependencies. Only certain of those listen in the contribution will need to be added.

Thomas suggested we need to track IETF draft <draft-rosenberg-sip-firewalls-00.txt >: "Getting SIP through Firewalls and NATs", J. Rosenberg et al., July 2000, work in progress "

User Plane transcoding. IMS uses AMR as default speech codec. However, current devices in external IP networks do not yet support AMR. SA2 has not provided clear guidance on the network elements to be used for user plane interworking.

SIP to H.323 interworking. There is ongoing work in the IETF regarding the interworking of standard SIP and H.323 signalling. Prototype implementations are already available. Furthermore, at the ITU-T SG16, Q2/3, a work item addressing the H.323 to SIP interworking exists, but currently there is no related activity.

Proposal: It is suggested that CN3 initially, i.e. for Rel.5, focuses its work regarding interworking between the IMS and external IP networks to questions related to the interworking of IMS SIP and standard SIP, and questions related to user plane transcoding.

Moreover, in Rel.5 the interface of the IMS to external IP networks should use IPv6 and standard SIP. In Rel.5 Firewalls, NATs, SIP proxies controlling them, and network entities performing the interworking between H.323 and standard SIP signalling should not be defined within the IMS; such network entities should be logically located outside the IMS.

It was agreed that CN3 will concentrate the following for Rel-5:-

?? **IMS SIP to SIP interworking, and**

?? **transcoder interworking for UP**

All other interworking cases will be developed by external bodies, resulting in them being postponed to Rel-6.

This will mean that the WID and draft specifications will need to be revised in order to reflect this decision.

RESULT: The document was **Forwarded to the CN1 joint session on 24.228.**

N3-010455: **Revised WID on IMS to IP interworking** Presented by Thomas Belling of Siemens.

CONTENT: Contains the updated WID for IMS to IP interworking that removes referencing to interworking to H.323.

DISCUSSION: Interworking for SIP to H.323 may be described in Release 6. the element that would provide this interworking to H.323 would be outside of the IMS, hence is not required in this WID.

The document *may* be revisited in Cancun if more information is obtained from CN1 on interworking of 3GPP extensions to SIP and standard SIP.

RESULT: The document was **AGREED.**

N3-010456: **Latest version of TS 29.162.** Presented by Thomas Belling of Siemens.

CONTENT: Contains the latest version of 29.162v0.3.0 where references to H.323 and mapping between IPv4 and IPv6 have been removed.

DISCUSSION: Clause 7.2 has title 3GPP SIP to Standard SIP. This does not reflect the decision taken in the CN1 joint meeting to use only 3GPP SIP. This needs to be revised.

Also the term IMS needs to be removed.

RESULT: The document was **REVISED to 0479.**

? REVISED ?

N3-010479: **Latest version of TS 29.162.** Presented by Th omas Belling of Siemens.

RESULT: The document was **REVISED to 0486.**

? REVISED ?

N3-010486: **Latest version of TS 29.162.** Presented by Thomas Belling of Siemens.

DISCUSSION:

♣♣**[ACTION N3_19_04]- Nigel Holland to provide TS29.162 [N3-010486] to the CN3 email exploder.**

RESULT: The document was **NOTED [email].**

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

??CN3 consider their work to this Work Item as 30% Complete

N3-010414: **Positioning the CN3 contribution to the CS-IMS interworking.** Presented by Rune Werner Wiik of Ericsson.

CONTENT: This contribution presents some activities ongoing in the industry that are similar to CN3's work on Interworking between IMS and CS networks, and recommends the manner in which CN3 can contribute to this activity.

DISCUSSION: Thomas Belling stated that Siemens support this proposal. Norbert has sent an email to the ITU-T SG11 WG chairs explaining it is not the intention of CN3 to produce duplicated work, only to provide the required add-ons.

Ericsson proposes that 3GPP use only references to the ITU-T documents. Our 3GPP specifications will describe the architecture, and for the interworking details we refer to the ITU-T. This would mean that CN3 do not discuss the detailed development of CS-IMS interworking in the meetings, only the missing parts or deltas required for our work.

If ITU-T documents are ready in time for Rel-5, CN3 will simply refer to the relevant documents. However there is still a concern that there may be delays in the production of the ITU-T specifications.

CN3 agreed to using references to the ITU-T work to avoid duplication

RESULT: The document was **ACCEPTED.**

N3-010442: **ITU-T SG11 SIP – BICC/ISUP relevant contributions.** Presented by Celine Bonnel of Nortel.

CONTENT: This contribution provides several ITU-T SG11 documents that should enable CN3 to discuss the status of the ITU-T SG11 work in terms of SIP - BICC/ISUP interworking and understand the timing concerns to have this work stable to reference it in 3GPP.

DISCUSSION: Alf Heidermark [Ericsson] participates in the SG11 electronic meetings and confirmed that the status of the documents is not really fixed until the final report is available. Also he mentioned that there is a meeting planned for Dec 2001, and a SG meeting Feb/March 2002 that could result in the approval of the documents.

Nigel Holland [BT] asked how CN3 can be sure that the documents meet all of our requirements. Thomas Belling [Siemens] said that we need to look at the BETA documents and follow the development in order to gain knowledge on how SIP interworking will work and how we can provide the required extensions.

Norbert agreed that we need some participants from CN3 who can follow the work in the ITU-T in order to follow progress and gain the knowledge.

Alf Heidermark believes that there are several mobile companies working on the SG11 documents and that many of the required extensions for the mobile world will be developed in the ITU-T. The work required to be done by CN3 may be minimal, and can be carried out by corrective CRs to our specifications.

Celine Bonnel [Nortel] would like to trust ITU-T to do all the work, but hi-lighted the dangers of blindly accepting the output of the ITU-T for inclusion in our Rel-5 documents. Celine stated that CN3 need to define some actions in order to ensure this interworking work is complete by the March 2002 timescale.

David Sanders [Vodafone] proposed that CN3 follow closely the work of the ITU-T, and identify any problems or missing work.

Johanna Wild [Motorola] was concerned on the dependency of the ITU-T work on the IETF. Possibly CN3 can concentrate on stabilizing the work in the IETF. This would mean CN3 participants actively working within the IETF (as individuals) in order to stabilize our work. The IETF drafts are mostly SIP extensions for 3GPP [mainly concerning CN1].

CN3 must list the references to ITU-T as a critical dependency in the 3GPP work plan. However the ITU-T should not delay the production of the CN3 specifications (as we will include only references).

David Sanders [Vodafone] asked if we still need to include signalling flow diagrams in our TS 29.163. Norbert Klehn suggested we include 'information' flows in our specification in order us to understand where the deltas are.

RESULT: The document was **NOTED.**

N3-010426: **Changes to TS 29.163 v020** Presented by David Sanders of Vodafone.

CONTENT: Contains some changes to the ITU-T references in TS 29.163.

DISCUSSION: The TS contains no details on interworking flows, so it will be simple to refer only to the ITU-T work. David asked if the 3GPP deltas to ITU-T work will be included in this TS or in a separate document. Norbert proposed adding any information of 3GPP deltas in a Normative Annex.

Note:-Nigel Holland [BT] has a contribution to add some call flows to 29.163.

Rune [Ericsson] mentioned that a scope should not have mandatory text "shall interwork". It was agreed to change the 1st sentence of the scope. The references to Rel-5 need to be removed from the document.

Also Rune had concerns with the way references are used in the specification.

David B. [MCC] circulated the latest version of the 3GPP drafting rules to the group for their reference in these matters.

RESULT: The document was **AGREED.**

N3-010427: **Control Plane overview.** Presented by David Sanders of Vodafone.

CONTENT: The contribution proposes a new format of clause 7 of TS 29.163 and incorporates two figures which define the protocol stacks in each of the network functions involved in the interworking across the control plane between CS networks supporting ISUP and BICC and the IM CN subsystem supporting SIP.

DISCUSSION: David Sanders [Vodafone] spotted an error in the figure 2 that needs to be corrected.[ISUP should read BICC]. It was agreed to include these changes to in TS 29.163 [see N3-010458].

RESULT: The document was **AGREED.**

N3-010416: **IMS to CS session cases to include in 29.163.** Presented by Nigel Holland of BT.

CONTENT: Proposes some session cases to be included in 29.163. The 3 most common session cases to consider will be: -

- ?? *Successful Session establishment*

- ?? *Session Failure due to error detected in terminating network*

- ?? *Session Release*

DISCUSSION: CN3 need to inform CN1 that they may need to include Continuity check in their TS 24.228. Norbert hi-lighted that this is a problem when we copy entire call flows from a CN1 specification into a CN3 specification. There are some problems with coordinating the updates of the call flows between the two groups. This topic needs to be discussed in the joint session with CN1.

Nigel Holland [BT] clarified the CN1 are not presently working in the interworking part, there are gaps in the call flows of 24.228 that need to be completed by CN3.

Agreed also to replace the term "PSTN" by "CS Network".

The document was forwarded to the joint session with CN1 on 24.228. The comments made in the CN3 meeting and the joint meeting were incorporated into a revised document.

RESULT: The document was **REVISED to 0459.**

? REVISED ?

N3-010459: **Rev. IMS to CS session cases to include in 29.163.** Presented by Nigel Holland of BT.

DISCUSSION: Following the discussion of work split, this issue will de handled in CN1.

RESULT: The document was **WITHDRAWN.**

N3-010393: **Requirements for ISUP/BICC to SIP mapping.** Presented by David Sanders of Vodafone.

RESULT: The document was **NOTED.**

N3-010394: **IAM to INVITE mapping example.** Presented by David Sanders of Vodafone.

CONTENT: Provides an example of the mapping and coding requirements between an ISUP IAM and a SIP INVITE for a PSTN originated, SIP terminated en-bloc basic voice call. The intention of this document is to illustrate the mapping and coding presentation method and to introduce some mapping and coding requirements.

DISCUSSION: CN3 will not to include duplicate tables in our specifications and simply reference to ITU-T specifications Documents **N3-101395 / 396 / 397 / 398** are therefore withdrawn.

RESULT: The document was **NOTED.**

N3-010395: **ACM to 1xx mapping example.** Presented by David Sanders of Vodafone.

RESULT: The document was **WITHDRAWN.**

N3-010396: **ANM to 2xx mapping example.** Presented by David Sanders of Vodafone.

RESULT: The document was **WITHDRAWN.**

N3-010397: **Proposal for new TS 29.cde for ISUP/BICC to SIP mapping.** Presented by David Sanders of Vodafone.

RESULT: The document was **WITHDRAWN.**

N3-010398: **Illustration of use of new technical specification TS 29.cde.** Presented by David Sanders of Vodafone.

RESULT: The document was **WITHDRAWN.**

N3-010457: **Updated WID.** Presented by David Sanders of Vodafone.

CONTENT: Contains the WID for interworking between IMS and CS.

DISCUSSION: David Sanders [Vodafone] will replace Nigel Holland [BT] as rapporteur.

RESULT: The document was **REVISED to 0485.**

? REVISED ?

N3-010485: **Updated WID.** Presented by David Sanders of Vodafone.

RESULT: The document was **AGREED.**

N3-010458: **TS 29.163.** Presented by David Sanders of Vodafone.

CONTENT: Contains the latest version of 29.163.

♣♣**[ACTION N3_19_05]- David Sanders to distribute TS29.163 [N3-010458] to the CN3 email exploder**

RESULT: The document was **NOTED [emailed to CN3 list].**

9.3 End to End QoS for IMS

✍✍CN3 consider their work to this Work Item as 10% Complete

N3-010365: **WID for End-to-End QoS Stage 3.** Presented by CN3 Chair.

CONTENT: Contains the WID for End-to-End QoS Stage 3 as approved at CN#13 meeting.

RESULT: The document was **NOTED.**

N3-010381: **QoS Option Reduction/Prioritisation in 23.207.** Presented by CN3 Chair.

CONTENT: This document raises the concerns of the supporting companies on the timeliness of Release 5 relating to IMS.

RESULT: The document was **NOTED.**

N3-010453: **End-to-End QoS Scenarios in TS 23.207: Reducing their Number for Rel. 5.** Presented by Oscar Lopez Torres of Motorola.

CONTENT: Document presents a limited set of end to end QoS scenarios. The six scenarios are differentiated by RSVP or not, and policy control or not.

DISCUSSION: Stephen Hayes [CN Chair-Ericsson] stated that 6 scenarios are still too many for completion in a realistic timescale. CN3 fully support the reduction of the number of scenarios to enable the work to be completed on-time for Rel-5.

Celine Bonnel [Nortel] provided some additional information from the SA2 drafting session that was held last week. However Oscar stated that no official information has yet been approved by SA2. This will happen in the SA2 plenary meeting to be held in Cancun in November. The *unofficial* selection of the drafting group was scenario 1 (no policy control), and 5 (which is scenario 1 plus policy control).

SA2 have now agreed that the number of scenarios need to be reduced.

RESULT: The document was **NOTED.**

N3-010454: **Output of QoS Drafting Group Session.** Presented by Oscar Lopez Torres of Motorola.

CONTENT: Contains the draft meeting report from the SA2 QoS drafting group session.

DISCUSSION: Stephen Hayes [CN Chair / Ericsson] informed the group that the IETF DRAFT on COPS RSVP PROXY will not be completed by March 2002. Stephen asked which of these scenarios are dependant on the IETF draft. Laurent Andriantsiferana [Cisco] informed that only the scenario 6 needs a COPS RSVP PROXY.

Stephen therefore proposed deleting scenario 6 from the list of possible scenarios for Rel-5. This was supported by Lucent and BT. This was agreed by CN3.

Laurent Andriantsiferana [CISCO] stated that RSVP is required for interworking to external networks. Therefore SA2 should consider scenarios 3, 4, and 6 [which CN3 have suggested to delaying beyond Rel-6].

Scenario 2 and 3 are not different as they are transparent with regards to the GGSN. However the mapping requirements are different between the two scenarios.

Stephen Hayes repeated that the decision of which scenarios are to be supported is the responsibility of SA2. However CN3 can identify potential problems. Oscar hopes that SA2 will reach a final decision in their Tokyo meeting at the end of this month [but this is not 100% certain].

RESULT: The document was **NOTED.**

N3-010418:	**TS29.207 V0.1.0 "Policy control over Go interface.** Presented by Daisuke Yokota. of Lucent.
CONTENT:	Contains the latest version of TS 29.207.
RESULT:	The document was **NOTED.**

N3-010373:	**Changes to TS 29.207 - Policy control over Go interface.** Presented by Ralitsa Gateva of Nokia.
CONTENT:	The document proposes some corrections to the draft TS 29.207 to align the specification with the latest version of the stage 2 description 23.207.
DISCUSSION:	Celine Bonnel [Nortel] supports the changes that align to TS 23.207. However there is a Nortel contribution that adds much more information to sub-clause 5.3.2.1. Also Nortel has comments to 5.3.3.1 where they would like the wording to be more precise.
	The deletion of 4.2 resulted in a referencing error (clause 4.1 refers to 4.1) - to be corrected.
	Kurt Eder [Siemens] commented to the duplication of text in 5.3.2.1 and in 23.207. This needs to be removed/aligned. Ralitsa stated that the information is much more detailed in 29.207 where we describe the messages. There are two options:
	Make 23.207 more detailed with regards to the messages
	Make 29.207 the specification the describes the messages and remove any duplicate from 23.207.
	Daisuke Yokota [Lucent] supported having the detail in the stage 3 specification 29.207.
	The proposed changes will be included in the latest version of 29.207 [Except the bullet points in clause 5.3.3.1].
RESULT:	The document was **REVISED to 0460.**

? REVISED ?

N3-010460:	**Changes to TS 29.207 - Policy control over Go interface.** Presented by Ralitsa Gateva of Nokia.
CONTENT:	The document proposes some corrections to the draft TS 29.207 to align the specification with the latest version of the stage 2 description 23.207.
DISCUSSION:	Daisuke Yokota [rapporteur] proposes removing Clause 5.4 policy control flows and placing them in new TS ab.cde. 29.207 will contain only protocol specification. This reflects the split in CN1, for 29.228 and 24.229. Kurt Eder [Siemens] supported this.
	The changes were agreed to be incorporated into 29.207 [N3-010480].
RESULT:	The document was **AGREED.**

N3-010480:	**TS 29.207v0.2.0.** Presented by Daisuke Yokota of Lucent.
CONTENT:	The document contains the latest version of draft TS 29.207v0.2.0.
DISCUSSION:	TS 29.207v020 Agreed as the basis for future changes

♣♣**[ACTION N3_19_06]- DAB will place TS29.207 [N3-010480] to the draft specifications server**

RESULT:	The document was **AGREED.**

N3-010374:	**PDP context based Go interface.** Presented by Ralitsa Gateva of Nokia.
CONTENT:	The document proposes:-
??	the information carried on the Go interface is PDP context specific
??	the GGSN does not have to combine policy information for many IP flows, but this is done in the PCF.

DISCUSSION: It was felt by CN3 that this document had architectural implications and needs to be seen by SA2, and a decision made there before CN3 can begin any work in this area.

A LS [N3-010461] will be send to SA2 informing them of this.

RESULT: The document was **NOTED.**

N3-010461: **DRAFT LS OUT to SA2 Liaison Statement on PDP context based Go Interface.** Presented by Juha Räsänen of Nokia

CONTENT: CN3 asks S2 group to consider whether there are clear reasons to standardize the Go interface to be IP flow based, or whether the Go interface can be bidirectionally PDP context based.

DISCUSSION: Stephen Dutnall [AWS] suggested that a reply is required from SA2 urgently. If SA2 agree to this then they need to update their TS 23.207.

Celine Bonnel [Nortel] does not see this as "problematic" only that "complex situations may appear".

Decided to remove the term bidirectional from the ACTION. Term S2 will be changed to SA2.

Decided to remove the attachment from the LS, as it has not been approved by CN3.

RESULT: The document was **REVISED to 0481.**

? REVISED ?

N3-010481: **LS OUT to SA2 Liaison Statement on PDP context based Go Interface.** Presented by Juha Räsänen of Nokia

RESULT: The document was **APPROVED.**

N3-010376: **Policy control over Go interface: COPS-PR.** Presented by Celine Bonnel of Nortel.

CONTENT: Nortel and AWS propose to use COPS-PR (provisioning – IETF RFC 3084) for the policy control over the Go interface.

DISCUSSION: Ralitsa Gateva [Nokia] asked if this would involve an extension of policy control. Celine asked for some time to check with her colleagues on this.

Ragnar Huslende [Ericsson] said that UMTS client type may be too restricting in the future developments. It maybe better to define a service type for service based open policy that could be enhanced in the future.

Juha Räsänen [Nokia] suggested this solution is more of an management (O&M) tool to configure the GGSN via the PCF. Celine responded that although the initial purpose of COPS-PR was for provisioning, it also seems to be a very attractive solution to do policy control.

However Juha [Nokia] mentioned that there is a risk that if we use COPS-PR, operators may have their GGSN configured by another operator. COPS-PR is originally designed for configuring the devices.

Ralitsa [Nokia] stated that the Nortel document is a very good starting point for discussion, but CN3 need also to examine all alternatives to COPS-PR, such as COPS-OUTSOURCING (which is real-time). CISCO supported the Nokia view that COPS-PR is not the best solution.

Celine stated that Nortel propose handling the outsourcing by adding some Objects within the PIB. Also it is probable that the COPS-OUTSOURCING model will require extensions to handle policy control.

Alf Heidermark [Ericsson] asked how we would document this UMTS PIB. Celine asked that this would be done within the IETF. Stephen Hayes checked on the status of this work. The finalisation date if this PIB is set as March 2002, although it is not sure that this will be realised by this time.

It would be good to have a full comparison of COPS-PR and COPS-OUTSOURCING in order to determine which is the best solution. Stephen Hayes suggested that we should

really consider which of the two solutions is the most "autonomous", and needs the least updating of policies.

It was agreed to discuss this on the e-mail exploder with the goal of reaching agreement and bringing a solution to the CN3 meeting in the Cancun meeting. Once the discussion approaches a semi-stable state the decision on which model to use will be taken by telephone conference between all interested parties.

This was also discussed in an off-line meeting on Wednesday morning. The report of that meeting is in document N3-010467.

This proposal was not accepted at this time, but noted for information.

RESULT: The document was **NOTED.**

N3-010467:   **Discussion result from End-to-end QoS Stage 3 Drafting session.** Presented by Celine Bonnel of Nortel.

CONTENT: Contains the report of the drafting session on the protocol selection for the Go interface.

The Future working plan on this item.

The following working plan between the Brighton and Cancun meetings was agreed by the CN3 End-to-end QoS Stage 3 drafting session held on Wednesday 17th October 2001.

1. Email discussion

The conclusion from the drafting session is to have an email discussion on the topic, from October 23 to November 7 2001.

The email discussion will take place on the 3GPP CN3 email reflector using the following text [COPS] in the Subject field of every COPS related email.

2. Tele-conference

A conference call among all interested companies is planned to conclude on the topic. Between Nov 8 and 9 2001, the purpose / agenda of the conference call will be checked and confirmed among companies.

The potential date for the teleconference is currently scheduled for November 12 2001.

The preliminary purpose of the conference call is to agree on the decision that CN3 will take with respect to which protocol the Go will be using, so that contributions can be prepared during the 2 weeks prior to the Cancun meeting in November 2001.

The following time across the world is currently preferred: *7:00 am PST, 11:00 am EST, 3:00 pm GMT, 4:00 pm CET, 12:00 am JST.*

DISCUSSION: The proposal was agreed, and work will proceed as described above. The document will be used as a guideline for the decision on the COPS selection.

The teleconference will only take place on the planned date if the email discussion is reaching a stable state.

RESULT: The document was **NOTED.**

N3-010377:   **COPS-PR over Go interface: 29.207 proposal.** Presented by Celine Bonnel of Nortel.

CONTENT: Initial proposal on changes to 29.207 is the COPS PR policy is used.

DISCUSSION: As no decision has been agreed on the choice of COPS, this document was not agreed, simply noted for information.

RESULT: The document was **NOTED.**

N3-010419: **Proposed draft TS ab.cde "End-to-end QoS signalling flows".** Presented by Daisuke Yokota of Lucent.

CONTENT: Contains the draft TS ab.cde "End-to-end QoS signalling flows".

DISCUSSION: Discussed in joint CN1 session

RESULT: The document was **REVISED to 0468.**

? REVISED ?

N3-010468: **Proposed draft TS ab.cde "QoS signalling flows".** Presented by Daisuke Yokota of Lucent.

DISCUSSION: Ralitsa Gateva [Nokia] has concerns about the SIP related flows being in 24.228 and not in TS ab.cde. Daisuke will re-introduce the flows into a revised version of TS ab.cde.

Rune [Ericsson] had concerns with an informative annex becoming part of a normative specification. Also there is a problem in duplicating flows from TS 23.207 into TS ab.cde. Daisuke answered that only the mandatory high level flows in TS 23.207 will be included in the normative TS ab.cde.

There was some objection to removing the term "end to end" from the title. Daisuke said the intention is to allow for and to end and other scenarios.

RESULT: The document was **REVISED to 0482.**

? REVISED ?

N3-010482: **Proposed draft TS ab.cde Rev2 "End to End QoS signalling flows".** Presented by Daisuke Yokota of Lucent.

DISCUSSION: This re-introduces the term "End to end" in the title.

Johanna Wild [Motorola] proposed limiting the scope by using the term "end to end QoS for IMS" instead of "end to end QoS". Stephen Dutnall [AWS] did not agree with this.

It was agreed to request the number 29.208 from the specifications manager. Daisuke will provide a clean version once the TS number has been confirmed.

> ♣♣**[ACTION N3_19_07]- Daisuke to distribute TS ab.cde [N3-010484] to the CN3 email exploder**

A note was added to clearly state that only the layout of the TS has been agreed by CN3 and not the content

RESULT: The document was **REVISED to 0484.**

? REVISED ?

N3-010484: **Draft TS ab.cde Rev2 "End to End QoS signalling flows".**

RESULT: The document was **NOTED [email].**

N3-010445: **Proposal for text to the scope section in TS ab.cde".** Presented by Ragnar Huslende of Ericsson.

CONTENT: Contains a proposal for the scope of TS ab.cde "End-to-end QoS signalling flows".

DISCUSSION: Nigel Holland [BT] has some proposed changes to include SIP SDP changes to TSab.cde and if this SCOPE is agreed then these changes will not be required.

Following presentation in the joint session, it was agreed to update the scope accordingly. It was agreed that TS ab.cde will become a stand alone specification under the responsibility of CN3. It was decided to request the number 24.227 for the spec number as it relates to 24.228 at a lower layer. The modified title of 24.227 is "QoS signalling flows" was agreed in the joint session.

RESULT: The document was **FORWARDED TO CN1 joint session on 24.228**

N3-010469: **Proposed scenario for MO end-to-end QoS signalling flow without SBLP without RSVP.** Daisuke Yokota of Lucent.

CONTENT: This document proposes a scenario of Mobile Originated side of end-to-end QoS signalling flow without Service Based Local Policy without end-to-end Resource reSerVation Protocol.

DISCUSSION: Mapping table will need to be done for other cases, but repetition of the same information needs to be avoided. As there were a number of open issues, it was agreed to postpone these changes until CN3#20 meeting.

The missing flows need to be provided for more complete understanding of these changes.

The layout for the calls flows was agreed as a base for future changes.

The text will be included as an example into TS ab.cde [N3-010482], but the details will need to be re-visited.

RESULT: The document was **AGREED.**

N3-010421: **Proposed scenario for MT end-to-end QoS signalling flow without SBLP without RSVP.**

DISCUSSION: Following discussions in CN1 joint meeting, this document was withdrawn.

RESULT: The document was **WITHDRAWN.**

N3-010422: **Proposed scenario for MO end-to-end QoS signalling flow without SBLP with RSVP.**

DISCUSSION: Following discussions in CN1 joint meeting, this document was withdrawn.

RESULT: The document was **WITHDRAWN.**

N3-010423: **Proposed scenario for MT end-to-end QoS signalling flow without SBLP with RSVP.**

DISCUSSION: Following discussions in CN1 joint meeting, this document was withdrawn.

RESULT: The document was **WITHDRAWN.**

N3-010436: **QoS flows: GPRS only, Diffserv in core network, with SBLP.**

DISCUSSION: Handled in the joint session, and will be dealt with in CN1

RESULT: The document was **NOTED.**

N3-010466: **SA2's drafting session on e2e QoS.** Presented by CN3 chair

CONTENT: Email notification of the status of SA2's drafting session on e2e QoS by the SA2 chair.

Conclusions of the discussion regarding the scenarios in TS 23.207:

- scenarios 1, 4 & 5 remain in the document, scenarios 2, 3 and 6 are to be removed.

- there was a general agreement that scenarios 1 & 5 need to be included and supported in Release 5. Some companies wanted to remove scenario 4 (RSVP) as well but we couldn't reached a consensus on this as there were also companies who wanted to keep it in Rel-5.

The discussion will continue in the next SA2 meeting in Kobe, Japan, in two and a half weeks time, where we can also hopefully approve CRs changing 23.207 accordingly.

RESULT: The document was **NOTED.**

9.4   Service Change and UDI fallback

N3-010366:   **Approved WID for service change and UDI fallback.** Presented by CN3 Chair.

CONTENT: Contains the latest version of the WID for service change and UDI fallback that was updated and approved at CN#13 meeting. CN plenary decided to remove any references to the eventual solution from the WID.

There was some discussion on when and how working groups should update WIDs that have been approved. General conclusion was WIDs can be updated as required to incorporate changes (to timescales, specs etc), but there is always that a revised WID can be rejected by plenary. Suggest - if it is not broken, don't fix it.

RESULT: The document was **NOTED.**

N3-010375:   **Discussion document on Service change and UDI fallback.** Presented by Juha Räsänen of Nokia.

CONTENT: The document reflects problems and possibilities related to a fallback from UDI to speech and a swap between multimedia and speech (i.e. a service change).

DISCUSSION: Nokia has not yet found a full solution for fallback. Norbert Klehn stated that we have a requirement to develop a solution that works for all cases.

Nokia has concluded that SWAP will not work via ISUP. However Ericsson have informed CN3 at the Dresden meeting that BICC and ISUP support the signalling means to swap between services.

Phil Hodges [Ericsson] clarified that the SWAP is not a problem with ISUP, however the fallback is a different problem, and Ericsson are working on a solution.

Juha stated that a caller requiring a simple speech call could require the end parties to set up a multimedia call and then verbally agree to swap to speech. This is a potential problem.

Juha responded to a question on UUS, stating that this is only one of several mechanisms.

Ericsson will take the Nokia paper back to their design engineers so that a solution can be proposed to the CN3#20 meeting. This will most probably be in the form of a comparative document stating the p-advantages disadvantages of the various solutions.

RESULT: The document was **NOTED.**

9.5   Other Rel-5 Work Items

N3-010399:   **CR044 to 29.007 v4.2.0 " New terminology required by GERAN".** Presented by Norbert Klehn of Siemens [Rapporteur].

CONTENT: Contains **(CAT D)** CR that replaces the terms "GSM" and "UMTS" by "A/Gb mode" and "Iu mode", as well as performing an update of references for to release 5

DISCUSSION: In a response to a question from Oscar [Motorola], Norbert clarified that the use of the term Iu refers to both Iu CS and Iu PS.

Rune Werner Wiik [Ericsson] NT Fax refers only to the UTRAN, therefore it should be UTRAN Iu mode. Also the term BSS is used frequently, and Rune asked if BSS refers only to a GSM radio technology. There was some discussion on the use of RAN to mean RAN/GERAN - no decision was made and guidance is required.

David Sanders [Vodafone] provided a useful architectural overview document [N3-010470] for the guidance of CN3. This document was noted.

Some concerns over the use of MS (2G mobile station) and UE (2G mobile station). GERAN still use the term MS for a 3G mobile.

Also there was concern of the definitions of Iu mode and A/Gb mode.

It was agreed to study this further until the Cancun meeting. If more information is required a LS will be sent to GERAN/SA2 from the next CN3 meeting.

RESULT: The document was **POSTPONED until CANCUN.**

N3-010400: **CR004 to 24.022 v4. 0.0 " New terminology required by GERAN".** Presented by Norbert Klehn of Siemens [Rapporteur].

CONTENT: Contains **(CAT D)** CR that replaces the terms "GSM" and "UMTS" by "A/Gb mode" and "Iu mode", as well as performing an update of references for to release 5

DISCUSSION: Norbert clarified that RLP handles both 9.6 and 14.4kbps each with different RLP frame sizes. This issue is to be discussed in GERAN.

As this is more than an editorial change the CR is presented here for information, and will be presented to CN3#20 meeting for "agreement".

RESULT: The document was **POSTPONED until CANCUN.**

N3-010406: **CR070 to 27.001 v4.5.0 " Terminology clarifications as requested by TSG GERAN".** Presented by Rune Werner Wiik of Ericsson [Rapporteur].

CONTENT: Contains **(CAT D)** CR that replaces the terms "GSM" and "UMTS" by "A/Gb mode" and "Iu mode", as well as performing an update of references for to release 5

DISCUSSION: The term GSM should not be changes in the ANNEX A (Information elements and their values). This would only be done when CN1 make the corresponding change.

The same problem here as what term needs to be used for BSS.

Which services are valid for the Iu mode? GSM supports MORE services than the UTRAN. This needs to be clarified via the LS.

Also it was mentioned that MCC need to look at the standard text of section 2.

There are some additional updates to the specification required for Release 5.

RESULT: The document was **POSTPONED until CANCUN.**

N3-010407: **CR008 to 27.002 v4.0.0 " Terminology clarifications as requested by TSG GERAN".** Presented by Rune Werner Wiik of Ericsson [Rapporteur].

CONTENT: Contains **(CAT D)** CR that replaces the terms "GSM" and "UMTS" by "A/Gb mode" and "Iu mode", as well as performing an update of references for to release 5

RESULT: The document was **POSTPONED until CANCUN.**

N3-010408 **CR009 to 27.003 v4.0.0 " Terminology clarifications as requested by TSG GERAN".** Presented by Rune Werner Wiik of Ericsson [Rapporteur].

CONTENT: Contains **(CAT D)** CR that replaces the terms "GSM" and "UMTS" by "A/Gb mode" and "Iu mode", as well as performing an update of references for to release 5

DISCUSSION: the term GSM R99 should not be replaced by A/Gb mode R99.

RESULT: The document was **POSTPONED until CANCUN.**

N3-010417: **New Work Item For CS User Plane PLMN to PSTN/ISDN Network Interworking.** Presented by Phil Hodges of Ericsson.

CONTENT: Contains a proposal for a new WID for CS User Plane PLMN to PSTN/ISDN Network Interworking

DISCUSSION: Thomas Belling [Siemens] this WID only deals with interworking with external BICC networks

Narrow band bit rate services examples

- BICC transit network

- fixed access technology that supports coding such as ADSL terminal and or AMR Codecs.

Ericsson have reserved a code point for Iu framing protocol.

There should be no impact on charging aspects.

Thomas Belling [Siemens] and David Sanders [Vodafone] said that the mapping of parameters needs to be done in 29.415. It is also possible that there are some impacts on 29.414 but this needs to be investigated.

Phil also mentioned that there is some impact 29.007.

It was agreed that Rune Werner Wiik will be the WID rapporteur.

It will have CN3 leadership.

Supporting companies Ericsson and Vodafone. This means another 2 supporting companies are required for this to be approved in Plenary.

It was agreed to have a new WID for Rel-5, planned for completion at CN#15. The classification of the WID is not yet known.

RESULT: The document was **NOTED.**

10 Joint Sessions:

10.1   Joint Session with CN1 on 23.218

N1-011373 : 23.218, Lucent T., Type: CR , Title: CR to 23.218: Service Triggering at Registration
Discussion : Forward to N1#20 joint for N2 review. Agreed earlier in CN1#19bis. This CR affects chapter 11 which is handled also in 1526. A contradiction between these 2 tdocs was identified. Can any CAMEL information be of interest for S-CSCF? Revision is needed of Fig. 11.1 in clause 11.1.1 to highlight that the service may be triggered via ISC also during registration.
The interfaces and the text will be merged with 1526 into the common revised tdoc 1597.
Conclusion : Merged into 1597/ Replaced by 1597

N1-011480 : 23.218,   Lucent T., Type: CR , Title: CR to 23.218 Addition of CAMEL Procedures to section 11
Discussion : At the TSG CN2 ad hoc held between the 11th –13th September 2001, a decision was taken to provide CAMEL specific functional behaviour in the IM-SSF in terms of SDL diagrams. This CR proposes that the SDL be included in a specification under the control of CN2. A companion contribution to CN2 (N2-010730) proposes the creation of a new Technical Specification, currently referred to as 23.078 Part II which will host the SDL diagrams that describe the CAMEL specific functional behaviour in the IM-SSF. No SDL based description for call related functional behaviour of the IM-SSF is intended for any of the related technical specifications.
The principal of moving sections to 23.078 Part II was seen beneficial and reduces interaction between WGs. The intention to move call flows from 24.228 is to have only the two flows indicated in 23.218, and not the whole lot. The deletion of editors note in beginning of clause 11, or a revision, is needed. But the architecture overview in 11.6.1 shall stay. Should section 11 of 23.218 be moved to CN1s responsibility since it is now an overview with stable general content which can be modified through endorsed CRs from CN2 ? Yes. But in 11.5 there is more detailed stuff, so could this part be moved to CN2 as well ? Yes, this split was agreed and CN2 decides were to place this.
Additionally many comments were made to clarify and clean up section 11, eg introduce a Note to show there is no interaction to the UE, and paragraphs should be streamlined during the move.
Conclusion : Revised to 1596, and to be reviewed in N1 part of this meeting

N1-011596 : 23.218, Lucent T., Type: CR , Title: CR to 23.218 Addition of CAMEL Procedures to section 11
Conclusion : Agreed

N1-011505 : 23.218, Ericsson, Type: CR , Title: Evolution of TS 23.218
Discussion : This contribution proposes that TS 23.218 does not repeat what is already included in other specifications, and concentrates on the filter criteria. After performing the stage 2 of the filter criteria, CN4 should be informed in order for the stage 3 work for the filter criteria to be completed.
Copying some architecture diagrams was done due to ease of overview, but the principal of not duplicating any parts was recognized due to synchronization problems between WGs. The duplicated diagrams with 23.228 are intended deleted when raising the TS to formal approval. The draft 23.218 is written as a start for CN1 activities, but CRs should be submitted to remove duplications.
24.228 is now almost unmanageable due to the size, and ISC flows will worsen that aspect. 24.228 is for call control and not for service control, so some wanted the ISC call flows in 23.218 only. But since stage 3 work in 24.229 might need some more details it was advocated that some ISC call flows could be introduced in 24.228 also. It was agreed that no systematical update of all call flows in 24.228 will be done to indicate ISC interaction, but having some examples should be considered.
TS 23.218 details the stage 2 aspects of the filter criteria and MRF functionality was agreed. And the mapping from ISC to CAP/OSA within CN2/CN5 documentations was dealt with earlier this morning and agreed. Chapter 12 in 23.218 with OSA should be modified with CRs according to the way CN2 parts have been agreed upon,- meaning just the interfaces should be left in 23.218 for CN1 to maintain. With this 23.218 section 12 is under N1 responsibility and informing N5 of any changes thereafter.
11.3 and 11.4 should be moved by new CRs to CN2 as well, and for the signalling diagram in 23.218 it should be included in the CN2 documentation also. The scope of 23.218 is not limited to the list provided in this CR.
Conclusion : Noted

N1-011522 : 23.218,   Motorola, Type: TS , Title: TS 23.218v070 "IP multimedia Session Handling; IP multimedia Call Model"
Discussion : The scope is maintained, but the structure is changed since the Draft 23.218 was presented in the Dresden CN WGs joint meeting. Now presented for information.
Conclusion : Noted

N1-011526 : 23.218,   Motorola, Type: CR , Title: Editorial and Minor changes against TS 23.218
Discussion : At CN1#18 in Dresden Motorola contributed N1-010983, which discussed the reorganization of TS 23.218 based on the agreed Architecture for Service Control and also advocated allocating responsibility for sections 6 to CN2 and section 8 to CN5 and was agreed in principle. At the following CN1#19 meeting held in Helsinki a follow up contribution N1-011277 was agreed implementing these changes. This contribution adds additional structure to the document particularly in those new sections added as a result of discussions at CN1#19 and also cleans up some editorials in the document.
11.2.3 was not seen as editorial change, and the interface to IM-SSF is still discussed in SA2 so this Sh interface is still not existing. The related diagram needs also to be changed accordingly. Change an editors note in 7.2.1 with reference to the 29.228 (in CN4 area). Clarification to be added to 8.2.1 on which MRF is meant . 7.2.3,- interface between HSSs to be deleted since CN4 does not work on it. But it is kept since it is copied from SA2 documentation. MRF figure interfaces is correct and the text should be changed accordingly. 6.8.2 diagram needs to be tided up due to 'view' problems. 2 diagrams intended to be the same,- needs to be done or only one kept.
Conclusion : Revised to 1597

N1-011597 : 23.218,   Motorola, Type: CR , Title: Editorial and Minor changes against TS 23.218
Conclusion : Agreed

N1-011534 : 23.218,   Nokia, Type: CR , Title: Filtering Criteria and Service Points of Interest
Discussion : The definitions of Filtering Criteria (FC) and Service Points of Interests (SPIs) in the current version of 23.218 are too loose. This document proposes some changes to chapters 5.2 and 6.8.1.3 in order to make the specification unambiguous in places where functionalities of FC and SPI are defined.
The list is not complete should be inserted as an editors note. Is RE-INVITE considered a request which can trigger the service ? Also INFO method should be able to trigger the Application Server. This contribution was for discussion, and comments are meant as input for a CR to the next CN1 meeting.
Conclusion : Noted

N1-011566 : 23.218,   Lucent T., Type: CR , Title: CR to 23.218 Correction to use of term Application Server in OSA context
Discussion : The term Application Server in the context of Open Service Access (OSA) is being used in a different manner than is defined in the OSA architecture in TS 23.127. OSA client applications are executed on an OSA Application Server which interfaces to an OSA Service Capability Server (OSA SCS) via the OSA Application Programming Interface (OSA API). However TS 23.218 refers to the OSA SCS as an Application Server.
The related SA2 CR was not agreed, so that modified part in 9.3.1 need to be reversed accordingly. Service Key needs to be restored,- and is a CAMEL related term. The CR for this will be provided in a later meeting.
Conclusion : Revised to 1599 which is to be reviewed by CN1.

N1-011599 : 23.218,   Lucent T., Type: CR , Title: CR to 23.218 Correction to use of term Application Server in OSA context
Conclusion : Agreed
N1-011567 : 23.218,   Lucent T., Type: DISCUSSION , Title: Dividing of work and responsibilities between CN1 and CN5 regarding MPCCS mappings to SIP
Discussion : This contribution falls into the decisions already made on work division and documentation strategy. So contributions are needed to introduce the proposal done here go into 23.218.
Conclusion : Noted

N1-011568 : 23.218,   Lucent T., Type: CR , Title: CR to 23.218 Additions to the OSA Specific sections on Session Handling with an OSA Service Capability Server
Discussion : Upon review of version 0.7.0 of TS 23.218 it was identified that the sections on IP Multimedia session handling with an OSA SCS are present only in a skeleton form. This paper proposes an initial content for these sections on OSA session handling. The proposed additions are far from complete, but are mainly intended to substantiate the placeholders for OSA sections and kick-start the work.
In 12.1 the proprietary interface is not allowed by SA2 anymore. 12.5 will be taken out to align with the newly agreed structure for 23.218.
Conclusion : Revised to 1600 which is to be reviewed by CN1.

N1-011600 : 23.218,   Lucent T., Type: CR , Title: CR to 23.218 Additions to the OSA Specific sections on Session Handling with an OSA Service Capability Server
Conclusion : Agreed

10.2 Joint session with CN1 on 24.228

N1-011401 : S2-012460, To: N3, S4 Cc: N1 , Type: LS IN , Title: Liaison Statement on IMS to IP interworking functions
Discussion : Forwarded from CN1#19bis, and now forwarded from agenda item 3. CN3 should note that SA2 still has to assess what (if any) interworking cases are required to be supported between 3GPP IMS UE and non 3GPP IP network based end points. The actions are already carried out in N3.
Conclusion: Noted

N1-011481 : 24.228,   Lucent T., Type: CR , Title: CR to 24.228: Cx interface interaction in registration
Discussion : In the current version of 24.228, the IMS registration flows show the Cx messages cross the Cx interface. 29.228 "IP Multimedia Subsystem Cx Interface Signalling Flows and message contents" is the specification to define the Cx interface. In order to avoid updating 24.228 because of any changes happening in 29.228, it is suggested to keep Cx interaction in 24.228 as generic as possible. This contribution attempts to show the Cx interaction in 24.228 registration flows in a generic way, and also to identify the information which is needed to be sent to HSS and its corresponding SIP messages.
Documentation aspects was heavily discussed.
Conclusion : Revised to 1603

N1-011603 : 24.228,   Lucent T., Type: CR , Title: CR to 24.228: Cx interface interaction in registration
Discussion : How to achieve consistency for interacting protocols ? Terminology discussion on visited domain name.
Conclusion : Agreed

N1-011482 : 24.228,   Lucent T., Type: CR , Title: CR to 24.228: Cx interface interaction in session initiation
Discussion : Editorials to be corrected. Also the other direction needs to be shown. Will renumbering take place in all flows? Yes, but only one flow with table having reference from the others?
Conclusion : Revised to 1606

N1-011606 : 24.228,   Lucent T., Type: CR , Title: CR to 24.228: Cx interface interaction in session initiation
Discussion : The rapporteur will handle the editorial mistake in 7.3.2-6b.
Conclusion : Agreed

N1-011504 : 24.228,   Ericsson, Type: CR , Title: QoS flows: GPRS only, diffserv in core network, no SBLP
Discussion : Related to 1532. This contribution is a follow-up of N1-011358 presented in CN1 #19bis in Sofia Antipolis. The changes with respect to N1-011358 are:
- Only the relevant SIP and GPRS messages are detailed in the explanatory text.
- Clarified that the mapping between SDP and GPRS parameters is not going to be standardized.
Here only the messages triggering the GPRS procedures are shown, and not the parameters. What about mapping between SDP parameters to QoS ? Proposed to be done in N3, but is not good from UE viewpoint. Could Go interactions be shown here as well ? This is another proposal to be discussed in 1532. The mapping of codec parameters to be standardized or not was discussed.
Conclusion : Replaced by 1602

N1-011508 : 24.229,   Nokia, Type: CR , Title: Interworking between 3GPP and IETF SIP terminals
Discussion : In this contribution the possible interworking scenarios between a UE having IMS subscription and other UEs are shown and explained. The scenarios assume that the interworking is done by the terminals themselves, without the network's involvement. The scenarios take into consideration the requirements which need to be fulfilled by a UE having an IMS subscription.
It could be that these interoperability scenarios between non-3GPP UE and 3GPP UE would need to be addressed in IETF. The scenarios were considered possible and should be described in 3GPP specifications. How to document the case to make 3GPP UEs to interwork with non-3GPP UEs is the main issue. It seems also that any interworking needs to be handled in the network, since 3GPP UEs is dependent on the 3GPP network. But the interworking could also be handled by the UE, so the issue is still open.
After the 1588 discussion this contribution 1508 and 1533 will also be part of that interworking study, as input material.
Conclusion : Noted

N1-011532 : 24.228,   BT , Type: CR , Title: QoS flows: GPRS only, Diff Serve in core network with SBLPModel"
Discussion : Related to 1504, having N3 impacts. The addition compared to 1504 is the COPS part (start in flow 13). Data in flow 13 is needed in flow in 11 and 12 as well. Shall both 1504 flow and 1532 flows be included or only the 1532 ? The 2 flows are not mutual exclusive since 1504 does not have PCF. If the COPS are in the N3 documentation this would result in duplication with 24.228. Some COPS interaction was requested to be included as example flow in 24.228. More details in 7 and 10 in both proposals were requested.

Conclusion : Replaced by 1602

N1-011533 : 24.229, BT , Type: CR , Title: Interworking with TS 24.229 SIP
Discussion : Redundant after the 1588 discussion, but will be part of the interworking study (together with 1508) which was initiated for 1588.
Conclusion : Noted

N1-011540 : 24.229, Siemens, Type: CR , Title: Behaviour of a B2BUA
Conclusion : Withdrawn

N1-011544 : Siemens, Type: DISCUSSION, Title: S-CSCF selection problems
Discussion : The S-CSCF is selected by HSS when the UE has sent REGISTER, but then error cases like no S-CSCF is available or the selected S-CSCF is temporarily out of order may happen. In any case this should deal with what shall happen on the SIP interface. For the Cx interface interaction we need to involve CN4, and check if most of the cases HSS would respond with successful S-CSCF selections (not dumb ones). 6.8.1 in 23.228 addresses this selection on part of SA2. N1 needs to define the I-CSCF behaviour, and acting as a proxy would leave any potential REGISTER retries for the UE to perform based on 4xx error message returned to its initial registration attempt.
It was disputed wether I-CSCF is stateless or transaction state full. The latter would be the case if I-CSCF should be able to reselect another S-CSCF if the first selected S-CSCF did not respond. Which of 23.228 or 24.228 should handle the error cases. S-CSCF failure at re-registration time is not covered in this contribution but it needs to be addressed at some point.
N1 working assumptions need to be confirmed in the joint meeting 17/10. N1 assumes this is not a SA2 issue any more and wonders what should happen with the LS now under preparation from N4 to SA2.
In the joint part of the meeting the LS was discussed, and it was thought that it should be addressed to N1 instead of SA2, if needed at all. Or leave the protocol actions for N1 and the architecture issues for SA2 in the planned LS from N4. Tdoc 1601 was issued for the LS to be seen this afternoon.
Conclusion : Noted

N1-011588 :   N3/Siemens, Type: DISCUSSION , Title: Extent of the specification work in 3GPP for IMS to IP interworking
Discussion : N3 would like to have N1s opinion on how to solve/divide interworking issues between themselves. Standard terms like '3GPP profile' should be used, and not 'IMS SIP'. An analysis of interworking issues would help out in how and where to do the work (in 1544 for the message part). Basic functionality must always be possible to work between non-3GPP UEs and 3GPP UEs. Codecs and IPv4/IPv6 is issues for interworking. Was it not the case that 3GPP enhancements to SIP would be taken into the IETF draft to come ? Only one SIP version exists so backwards compatibility is not an issue. The extensions from 3GPP was thought to be a part within the modularity within SIP. Then it is an IETF specific issue. But it was different opinions if interworking was needed to be worked on in N3 or not.
The scope for analysis to define the interworking issues will be for 3GPP UEs to legacy terminals and vice versa, and will be worked on by a small drafting group of volunteers. Further limitations to the scope is needed, - i.e. just SIP interoperability to RFC 2543 compliant terminals (eg not IP4 to IPv6 interworking).
The moderator(s) of the drafting group to analyse the interoperability scenarios between 3GPP UE and IETF compliant SIP terminals is Gautam T. and/or Gabor B. 1533 and 1508 is also starting points for this study.
Conclusion : Noted

N1-011589 : N3/BT, Type: DISCUSSION , Title: IMS to CS session cases to include in 29.163
Discussion : As information to N3 the PSTN related call flows in 24.228 will be proposed updated in the near future. Some possible misleading text was pointed out. An open issue is if the terminating policy on IMS or CS is to be considered ? In the dashed line for ACM, which means optionally, the 183 Ringing needs to be dashed as well. Who is doing the work to land these flows to 24.228? The work can be done in N3 and then brought back to N1.
Conclusion : Noted, and this contribution will be seen in one of the next N1 meetings

N1-011598 : N3/Ericsson, Type: DISCUSSION , Title: Proposal for text to the scope section in TS ab.cde
Discussion : In order to progress the work on the new TS ab.cde (End-to-End QoS signalling flows) in N3, it is important to define a clear and focused scope for the TS.
This affects 24.228 and the worksplit, and the latter also needs to be described in the workplan if decided. To avoid double work boxes can be used for interactions and optionalities, and only example flows showing the Go Interface messages without details in 24.228. The details on parameters and mapping are proposed to be given eg in TS ab.cde and other related TSs. Are the principals from this contribution agreed? The TS ab.cde was agreed to be created. The scope is acceptable if it does not affect the merge of flows intended for 1602.
Conclusion : Agreed

N1-011601 : N4-011188 To: SA2, SA5 Cc: CN1 SA1 , Type: LS OUT , Title: Selection of S-CSCF by I-CSCF based on capability requirements
Discussion : Related to 1544. SA2 earlier did not find it necessary to standardize the issue and it has not been raised since. The error handling should be clarified to have been resolved by N1. The proposed added IE has consequences for I-CSCF and SIP. I-CSCF should have a limited set of S-CSCFs to be selected and reselections should be handled in SIP. It is up to CN4 to agree this LS OUT which will be presented unchanged to CN4 this week.
Conclusion : Noted

N1-011602 : 24.228, Ericsson/BT, Type: CR , Title: QoS flows: GPRS only, Diff Serve in core network with and without SBLP support
Discussion : This is the replacement of N1-011504 and 1532. Editorials can be corrected later in the annex where this eventually would go, and also some further work in conceptual areas are needed.
Conclusion : Agreed

11 Administrative issues

11.1 Work Plan Review

N3-010358: **3GPP Project Plan.** Presented by David, MCC.

CONTENT: Contains the latest version of the 3GPP project plan, as approved at SA#13 plenary including several updates from WGs.

DISCUSSION: WI e2e QoS has to serve 2 features or building blocks, respectively. Go interface is not only for CN3 but also to CN1 and SA2. CN3's interworking WIs depend on SA2's work, where some decisions are still needed although their WI is already 100% complete. IETF and ITU-T dependencies: David to collect the information and to include them in a separate section dedicated to CN3.

♣♣**[ACTION N3_19_08]- DAB Collect information on ITU and IETF dependencies and distribute to CN3 email exploder**

♣♣**[ACTION N3_19_09]- DAB to Update work plan**

RESULT: The document was **NOTED**

11.2 Specification Review

N3-010359: **CN3 Specification status list after to CN#13.** Presented by David, MCC.

CONTENT: Contains a list of the specifications under CN3's responsibility, with their status and rapporteur following CN#13 meeting.

DISCUSSION: Johanna Wild may be the rapporteur of 07.60 and 27.060, DAB will confirm this.

Rune Werner Wiik replaces Achim Braun as rapporteur for 23.910.

David Sanders replaces Nigel Holland as rapporteur of 29.163

♣♣**[ACTION N3_19_10]- DAB to update the specifications database with the comments received online**

RESULT: The document was **NOTED.**

11.3 Future Work

No Contributions to this agenda item.

Norbert proposed that for the Cancun meeting CN3 be split into two parallel drafting sessions.

One drafting group on the QoS specs, and the other on the interworking specs.

This will either be done either a one day session, or two half day sessions.

Also there will be no CN1 joint meeting on 23.218, only a single half day session on 24.228.

11.4   Next meetings, allocation of hosts

Meeting	Date	Location	Location, Host	Comments
TSG-CN3#20	26th – 30th Nov 2001	Cancun, Mexico	NA friends of 3GPP	Co-loc. CN1,CN2,CN3,CN4, CN5
TSG-CN#14	12th – 14th Dec 2001	Kyoto, Japan	TTC / ARIB	
TSG-CN3#21	28th Jan - 1st Febth 2002	Sophia, France	ETSI	Co-loc. CN1,CN2,CN3,CN4
TSG-CN#15	6th - 8th Mar 2002	???, Korea	???	Deadline for of Rel-5
TSG-CN3#22	8th - 12th April 2002	???, USA	NA Friends of 3GPP	Co-loc. CN1,CN2,CN3,CN4
TSG-CN3#23	13th - 17th May 2002	Sophia [or USA]	ETSI [or Ericsson]	Co-loc. CN1,CN2,CN3,CN4
TSG-CN#16	5th - 7th June 2002	Marco Island, USA,	Motorola	
TSG-CN3#24	29th July - 2nd Aug 2002	Helsinki, Finland	Sonera and others	
TSG-CN#17	4th - 6th Sept 2002	Biarritz, France	Alcatel and others	
TSG-CN3#25	23rd - 27th Sept 2002	???, USA	NA Friends of 3GPP	
TSG-CN3#26	11th - 15th Nov 2002	Penang, Malaysia	????	
TSG-CN#16	4th - 6th Dec 2002	New Orleans, USA	NA friends of 3GPP	

13 Elections of Vice-Chairs

Due to the fact that there were no candidates for the position of CN3 vice chair, the elections were not held

N3-010360:   **Candidature for Graham Heaton.**

DISCUSSION: This was withdrawn before the meeting

RESULT: The document was **WITHDRAWN.**

13 Summary of Results

13.1　Work Items

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

TDoc #	Tdoc Title
N3-010485	Interworking between IM CN subsystem and IP networks
N3-010455	Interworking between IM Subsystems and CS networks

13.2　Liaison Statements

The following Liaison Statements were agreed by CN3:

TDoc #	Tdoc Title	LS to	LS cc	LS Attachment
N3-010446	SIP Signalling and CODEC Issues	GERAN, SA2, SA4	CN1	N3-010390
N3-010481	PDP context based Go Interface	SA2	none	none
N3-010483	Signalling Transparency [Re. OSV-01043 and S2-012321]	GERAN, SA2	CN1	N3-010387, N3-01088

13.3　Change Requests

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

TDoc #	Spec	CR #	Rev	CAT	Rel	C_Ver	Tdoc Title
N3-010465	09.61	A021	1	F	R97	6.5.0	Correction to Calling-station-id
N3-010464	09.61	A022	1	A	R98	7.4.0	Correction to Calling-station-id
N3-010450	09.61	A023	1	F	R97	6.5.0	Correction to 3GPP specific attribute: 3GPP-IMSI
N3-010449	09.61	A024	1	A	R98	7.4.0	Correction to 3GPP specific attribute: 3GPP-IMSI
N3-010437	09.61	A025		F	R97	6.5.0	Correction to 3GPP specific attributes containing MCC-MNC IMSI
N3-010438	09.61	A026		A	R98	7.4.0	Correction to 3GPP specific attributes containing MCC-MNC IMSI
N3-010474	09.61	A027		F	R97	6.5.0	Standard method for updating information between GPRS and external PDN using RADIUS
N3-010473	09.61	A028		A	R98	7.4.0	Standard method for updating information between GPRS and external PDN using RADIUS
N3-010477	09.61	A029		A	R98	7.4.0	Standard method for interworking between GPRS and external PDN using RADIUS
N3-010478	09.61	A030		F	R97	6.5.0	Standard method for interworking between GPRS and external PDN using RADIUS
N3-010410	23.910	031		F	Rel-4	4.3.0	SDU size for transparent data at 33.6 kbit/s
N3-010409	27.001	069		F	Rel-4	4.5.0	SDU size for transparent data at 33.6 kbit/s
N3-010401	29.007	042		F	R99	3.8.0	Removal of SIWF

TDoc #	Spec	CR #	Rev	CAT	Rel	C_Ver	Tdoc Title
N3-010402	29.007	043		A	Rel-4	4.2.0	Removal of SIWF
N3-010404	29.007	045		F	Rel-4	4.2.0	SDU size for transparent data at 33.6 kbit/s
N3-010471	29.061	023	2	A	Rel-4	4.2.0	Standard method for updating information between GPRS and external PDN using RADIUS
N3-010475	29.061	024	2	A	Rel-4	4.2.0	Standard method for interworking between GPRS and external PDN using RADIUS
N3-010463	29.061	027	1	A	R99	3.7.0	Correction to Calling-station-id
N3-010462	29.061	028	1	A	Rel-4	4.2.0	Correction to Calling-station-id
N3-010448	29.061	029	1	A	R99	3.7.0	Correction to 3GPP specific attribute: 3GPP-IMSI
N3-010447	29.061	030	1	A	Rel-4	4.2.0	Correction to 3GPP specific attribute: 3GPP-IMSI
N3-010439	29.061	031		A	R99	3.7.0	Correction to 3GPP specific attributes containing MCC-MNC IMSI
N3-010440	29.061	032		A	Rel-4	4.2.0	Correction to 3GPP specific attributes containing MCC-MNC IMSI
N3-010476	29.061	033		A	R99	3.7.0	Standard method for interworking between GPRS and external PDN using RADIUS
N3-010472	29.061	034		A	R99	3.7.0	Standard method for updating information between GPRS and external PDN using RADIUS
N3-010424	29.414	004		F	Rel-4	4.2.0	Correction of inconsistency regarding RTP clock frequency

13.4 New TRs / TSs

TDoc #	Spec	Tdoc Title	Rel	C_Ver
N3-010486	29.162	Interworking between the IM CN subsystem and IP networks	Rel-5	0.3.0
N3-010458	29.163	Interworking between the IM CN subsystem and CS networks	Rel-5	0.3.0
N3-010480	29.207	Policy control over Go interface	Rel-5	0.2.0
N3-010484	ab.cde	End to End QoS signalling flows	Rel-5	0.2.0

13.5 Other

None in this meeting.

13.6 Summary of CN3#19 Action Points

Includes all open action from previous meetings

ACTION NUMBER	OWNER	DESCRIPTION	TARGET DATE	NOTES	STATUS
N3_18_02	All Rapporteurs	Update their specifications following the GERAN proposal on terminology and provide CRs	before CN3#19	Partially complete, some open issues	OPEN
N3_18_03	Thomas Belling	Monitor the RAN3 Work on Iu UP version negotiation, provide CR to 29.415 as required	before NP#14	RAN3 have completed - No impact on CN3	CLOSED
N3_19_01	All	Contributing companies are to consider the impact of additional CODECs in the fixed network on CN3s work on interworking	at CN3#20		OPEN
N3_19_02	Rapporteurs	Examine their specifications and delete any references to SWIF in R99 and onwards	at CN3#20		OPEN
N3_19_03	DAB	Ensure 23.054 is deleted from the list of specifications for R99 and onwards.	before CN3#20		DONE
N3_19_04	Nigel Holland	Provide TS29.162 [N3-010486] to the CN3 email exploder	before CN3#20		DONE
N3_19_05	David Sanders	Distribute TS29.163 [N3-010458] to the CN3 email exploder	before CN3#20		OPEN
N3_19_06	DAB	Place TS29.207 [N3-010480] to the draft specifications server	before CN3#20		DONE
N3_19_07	Daisuke Yokota	Distribute TSab.cde [N3-010484] to the CN3 email exploder	before CN3#20		DONE
N3_19_08	DAB	Collect information on ITU and IETF dependencies and distribute to CN3 email exploder	before CN3#20		OPEN
N3_19_09	DAB	Update work plan	before CN3#20		DONE
N3_19_10	DAB	Update specs list	before CN3#20		DONE

14 Any other business

None

15 Close of meeting

Norbert closed the 19th CN3 meeting on Friday 19th October at 12:30, and thanked the host for the excellent meeting location and arrangements.

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

Annex A: List of CN3 Meeting Participants

The following delegates attended the CN3#19 meeting.

1	Mr.	Laurent	Andriantsiferana	landrian@cisco.com	Cisco Systems Inc.
2	Dr.	Thomas	Belling	Thomas.Belling@icn.siemens.de	SIEMENS AG
3	Ms.	Celine	Bonnel	celine.bonnel@nortelnetworks.com	NORTEL NETWORKS (EUROPE)
4	Mr.	David	Boswarthick	david.boswarthick@etsi.fr	ETSI Secretariat
5	Mr.	Xin	Chen	xchen2@lucent.com	Lucent Technologies N. S. UK
6	Mr.	Stephen	Dutnall	steve.dutnall@northstream.se	AWS
7	Dr.	Kurt	Eder	kurt.eder@siemens.at	SIEMENS AG
8	Mr.	Gary	Edwards	gary.edwards@hutchison3g.com	Hutchison 3G UK Limited
9	Miss	Ralitsa	Gateva	Ralitsa.Gateva@nokia.com	NOKIA Corporation
10	Miss	Constance	Guilleray	constance.guilleray@francetelcom.fr	France Telecom
11	Mr.	Alf	Heidermark	alf.heidermark@uab.ericsson.se	ERICSSON L.M.
12	Mr.	Kevan	Hobbis	Kevan.Hobbis@hutchison.com	Hutchison 3G UK Limited
13	Mr.	Phil	Hodges	phil.hodges@ericsson.se	ERICSSON L.M.
14	Mr.	Nigel	Holland	nigel.holland@bt.com	BT
15	Mr.	Ragnar	Huslende	ragnar.huslende@ericsson.se	ERICSSON L.M.
16	Mr.	Tony	Huynh-Quang	tony.huynh-quang@alcatel.fr	ALCATEL S.A.
17	Mr.	Daeik	Kim	dikim@etri.re.kr	ETRI
18	Mr.	Norbert	Klehn	norbert.klehn@icn.siemens.de	SIEMENS AG
19	Mr.	Christopher	Komatas	ckomatas@juniper.net	Juniper Networks
20	Dr.	Oscar	Lopez-Torres	oscar.lopeztorres@motorola.com	MOTOROLA S.A.
21	Mr.	Idreas	Mir	imir@qualcomm.com	QUALCOMM EUROPE S.A.R.L.
22	Mr.	Vincent	PIERRE	vpierre@bouyguestelecom.fr	BOUYGUES Telecom
23	Mr.	Juha	Räsänen	juha.a.rasanen@nokia.com	NOKIA Corporation
24	Mr.	David	Sanders	dave.sanders@vf.vodafone.co.uk	VODAFONE Group Plc
25	Dr.	Kamel	Shaheen	kamel.shaheen@interdigital.com	INTERDIGITAL
26	Mr.	Rune	Wiik	Rune.Werner.Wiik@ericsson.se	ERICSSON L.M.
27	Mrs.	Johanna	Wild	johanna.wild@motorola.com	MOTOROLA GmbH
28	Mr.	Daisuke	Yokota	yokota@lucent.com	Lucent Technologies Japan Ltd.

Annex B: List of documents

Details can also be found in the file ***N3_19_Tdoc_list.xls*** on the meeting server.

TDoc #	Type	Tdoc Title	CR #	Rev	CAT	Spec	C_Ver	Status
N3-010353	AGENDA	Draft Agenda for CN3#19 Meeting (Brighton)						APPROVED
N3-010354	REPORT	Draft Meeting report from CN3#18 (Dresden)						REVISED TO 0441 before presentation
N3-010355	REPORT	Draft Meeting report from CN#13 (Beijing)						NOTED
N3-010356	REPORT	Draft Meeting report from SA#13 (Beijing)						NOTED
N3-010357	REPORT	Notice from CN3 Chairman from CN#13						NOTED
N3-010358	WORK PLAN	Latest Version of 3GPP Workplan						NOTED
N3-010359	LIST	CN3 Specification List following CN#13						NOTED
N3-010360	CANDIDATURE	Candidature for Grahame Heaton for CN3 V.Chair						WITHDRAWN
N3-010361	DAD	Allocation of documents to agenda items [start day1]						NOTED
N3-010362	DAD	Allocation of documents to agenda items [end day1]						NOTED
N3-010363	DAD	Allocation of documents to agenda items [end day2]						NOTED
N3-010364	DAD	Allocation of documents to agenda items start [end day3]						NOTED
N3-010365	WID	Approved WID for e2e QoS						NOTED
N3-010366	WID	Approved WID for service change and UDI fallback						NOTED
N3-010367	CR PACK	Revised RADIUS CRs [approved at CN#13]						NOTED
N3-010368	REPORT	CN3 status report to CN#13						NOTED
N3-010369	DISC	Mobile terminated call with single numbering scheme						NOTED
N3-010370	CR	Mobile terminated call with single numbering scheme	068		F	27.001	3.10.0	WITHDRAWN
N3-010371	CR	Mobile terminated call with single numbering scheme	041		F	29.007	3.8.0	WITHDRAWN
N3-010372	INFO	Mobile terminated call with single numbering scheme						WITHDRAWN
N3-010373	[CR]	Policy control over Go Interface				29.207	0.1.0	REVISED TO 0460
N3-010374	[CR]	PDP context based Go Interface				29.207	0.1.0	NOTED
N3-010375	DISCUSSION DOC	Service change and UDI fallback						NOTED
N3-010376	DISCUSSION DOC	Policy control over Go interface: COPS-PR	-	-	-	-	-	NOTED
N3-010377	CR	COPS-PR over Go interface: 29.207 proposal			B	29.207	0.1.0	NOTED
N3-010378	CR	Correction to the IMSI length and encoding	A019		F	09.61	6.5.0	WITHDRAWN
N3-010379	CR	Standard method for updating information between GPRS and external PDN using RADIUS	023		F	29.061	4.2.0	REVISED TO 0451
N3-010380	CR	Standard method for interworking between GPRS and external PDN using RADIUS	024		F	29.061	4.2.0	REVISED TO 0443
N3-010381	DISCUSSION DOC	QoS Option Reduction/Prioritisation in 23.207 [SP-010521]						NOTED
N3-010382	LS IN	Access Point Name" usage [S5B010537]						NOTED
N3-010383	LS IN	Re. to LS on basic and advanced services examples [S5-010413]						NOTED
N3-010384	LS IN	Re. to SA2 Liaison "WI on the End-to-End QoS Architecture for Release 5 [S5-010412]						NOTED
N3-010385	LS IN	Re. to N3-010328: LS requesting Clarification on QoS for the Interworking between the IMS and CS networks [S2-012461].						NOTED
N3-010386	LS IN	Liaison Statement on IMS to IP interworking functions [S2-012460]						NOTED
N3-010387	LS IN	Signalling Transparency [S2-012321]						NOTED
N3-010388	LS IN	Signalling Transparency [OSV-01043]						NOTED
N3-010389	LS IN	IP Based Multimedia Services Framework Report [S1-010869]						NOTED
N3-010390	LS IN	Reply Liaison Statement on SIP Signalling and Codec Issues [N1-011334]						NOTED
N3-010391	LS IN	User Plane for IMS to PSTN Interworking [N1-011334]						NOTED
N3-010392	LS IN	Removal of SIWF from R99 and onward [NP-010526]						NOTED

TDoc #	Type	Tdoc Title	CR #	Rev	CAT	Spec	C_Ver	Status
N3-010393	DISCUSSION DOC	Requirements for ISUP/BICC to SIP mapping						NOTED
N3-010394	DISCUSSION DOC	IAM to INVITE mapping example						NOTED
N3-010395	DISCUSSION DOC	ACM to 1xx mapping example						WITHDRAWN
N3-010396	DISCUSSION DOC	ANM to 2xx mapping example						WITHDRAWN
N3-010397	DISCUSSION DOC	Proposal for new TS 29.abc for ISUP/BICC to SIP mapping						WITHDRAWN
N3-010398	DISCUSSION DOC	Illustration of use of new TS 29.abc						WITHDRAWN
N3-010399	CR	New terminology required by GERAN	044		D	29.007	4.2.0	POSTPONED
N3-010400	CR	New terminology required by GERAN	006		D	24.022	4.0.0	POSTPONED
N3-010401	CR	Removal of SIWF	042		F	29.007	3.8.0	AGREED
N3-010402	CR	Removal of SIWF	043		A	29.007	4.2.0	AGREED
N3-010403	INFO	SDU size for transparent data at 33.6 kbit/s						NOTED
N3-010404	CR	SDU size for transparent data at 33.6 kbit/s	045		F	29.007	4.2.0	AGREED
N3-010405	Other	Proposal for text to the scope section in TS ab.cde						REVISED TO 0445
N3-010406	CR	Terminology clarifications as requested by TSG GERAN	070		D	27.001	4.5.0	POSTPONED
N3-010407	CR	Terminology clarifications as requested by TSG GERAN	008		D	27.002	4.0.0	POSTPONED
N3-010408	CR	Terminology clarifications as requested by TSG GERAN	009		D	27.003	4.1.0	POSTPONED
N3-010409	CR	SDU size for transparent data at 33.6 kbit/s	069		F	27.001	4.5.0	AGREED
N3-010410	CR	SDU size for transparent data at 33.6 kbit/s	031		F	23.910	4.3.0	AGREED
N3-010411	CR	Correction to the IMSI length and encoding	A020		A	09.61	7.4.0	WITHDRAWN
N3-010412	CR	Correction to the IMSI length and encoding	025		A	29.061	3.7.0	WITHDRAWN
N3-010413	CR	Correction to the IMSI length and encoding	026		A	29.061	4.2.0	WITHDRAWN
N3-010414	DISCUSSION DOC	Positioning the CN3 contribution to the CS-IMS interworking						ACCEPTED
N3-010415	Approval	New version of 29.162v020						WITHDRAWN
N3-010416	Approval	IMS to CS session cases to include in 29.163						REVISED TO 0459
N3-010417	DISCUSSION DOC	User Plane Interworking						NOTED
N3-010418	TS	TS29.207 V0.1.0 "Policy control over Go interface"				29.207		NOTED
N3-010419	TS	Proposed draft TSab.cde "End-to-end QoS signalling flows"				ab.cde		REVISED TO 0468
N3-010420	DISCUSSION DOC	Proposed scenario for MO end-to-end QoS signalling flow without SBLP without RSVP						REVISED TO 0469
N3-010421	DISCUSSION DOC	Proposed scenario for MT end-to-end QoS signalling flow without SBLP without RSVP						WITHDRAWN
N3-010422	DISCUSSION DOC	Proposed scenario for MO end-to-end QoS signalling flow without SBLP with RSVP						WITHDRAWN
N3-010423	DISCUSSION DOC	Proposed scenario for MT end-to-end QoS signalling flow without SBLP with RSVP						WITHDRAWN
N3-010424	CR	Correction of inconsistency regarding RTP clock frequency	004		F	29.414	4.2.0	AGREED
N3-010425	DISCUSSION DOC	Extent of the specification work in 3GPP for IMS to IP interworking						Seen in Joint session
N3-010426	[CR]	Editorial to document references to 29.163				29.163	0.4.0	AGREED
N3-010427	DISCUSSION DOC	Control plane overview						AGREED
N3-010428	CR	Correction to Calling-station-id	028		A	29.061	4.2.0	REVISED TO 0462
N3-010429	CR	Correction to Calling-station-id	027		A	29.061	3.7.0	REVISED TO 0463
N3-010430	CR	Correction to Calling-station-id	A022		A	09.61	7.4.0	REVISED TO 0464
N3-010431	CR	Correction to Calling-station-id	A021		F	09.61	6.5.0	REVISED TO 0465
N3-010432	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	030		A	29.061	4.2.0	REVISED TO 0447
N3-010433	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	029		A	29.061	3.7.0	REVISED TO 0448
N3-010434	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	A024		A	09.61	7.4.0	REVISED TO 0449
N3-010435	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	A023		F	09.61	6.5.0	REVISED TO 0450
N3-010436	DISCUSSION DOC	QoS flows: GPRS only, Diffserv in core network, with SBLP						NOTED

TDoc #	Type	Tdoc Title	CR #	Rev	CAT	Spec	C_Ver	Status
N3-010437	CR	Correction to 3GPP specific attributes containing MCC-MNC IMSI	A025		F	09.61	6.5.0	AGREED
N3-010438	CR	Correction to 3GPP specific attributes containing MCC-MNC IMSI	A026		A	09.61	7.4.0	AGREED
N3-010439	CR	Correction to 3GPP specific attributes containing MCC-MNC IMSI	031		A	29.061	3.7.0	AGREED
N3-010440	CR	Correction to 3GPP specific attributes containing MCC-MNC IMSI	032		A	29.061	4.2.0	AGREED
N3-010441	REPORT	Draft Meeting report from CN3#18 (Dresden)						APPROVED
N3-010442	INFO	ITU-T SG11 SIP - BICC/ISUP relevant contributions						NOTED
N3-010443	CR	Standard method for interworking between GPRS and external PDN using RADIUS	024	1	F	29.061	4.2.0	REVISED TO 0452
N3-010444	LS OUT	LS OUT to GERAN, SA2, cc CN1 on Signalling Transparency [Re. OSV-01043 and S2-012321]						REVISED TO 0483
N3-010445	DISCUSSION DOC	Proposal for text to the scope section in TS ab.cde						FORWARDED TO JOINT CN1
N3-010446	LS OUT	LS OUT on SIP Signalling and Codec Issues						APPROVED
N3-010447	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	030	1	A	29.061	4.2.0	AGREED
N3-010448	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	029	1	A	29.061	3.7.0	AGREED
N3-010449	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	A024	1	A	09.61	7.4.0	AGREED
N3-010450	CR	Correction to 3GPP specific attribute: 3GPP-IMSI	A023	1	F	09.61	6.5.0	AGREED
N3-010451	CR	Standard method for updating information between GPRS and external PDN using RADIUS	023	1	F	29.061	4.2.0	REVISED TO 0471
N3-010452	CR	Standard method for interworking between GPRS and external PDN using RADIUS	024	2	F	29.061	4.2.0	REVISED TO 0475
N3-010453	DISCUSSION DOC	e2e QoS Scenarios - Reducing their number for Rel-5						NOTED
N3-010454	REPORT	QoS Drafting Group Session in SA2						NOTED
N3-010455	WID	IMS to IP interworking						AGREED
N3-010456	TS	Latest draft of TS 29.162				29.162		REVISED TO 0479
N3-010457	WID	IMS to CS interworking						REVISED TO 0485
N3-010458	TS	Interworking between the IM CN subsystem and CS networks				29.163	0.3.0	AGREED
N3-010459	Approval	IMS to CS session cases to include in 29.163						WITHDRAWN
N3-010460	TS	TS 29.207: Policy control over Go interface				29.207		[AGREED]
N3-010461	LS OUT	LS OUT to SA2 on PDP context based Go Interface						REVISED TO 0481
N3-010462	CR	Correction to Calling-station-id	028		A	29.061	4.2.0	AGREED
N3-010463	CR	Correction to Calling-station-id	027		A	29.061	3.7.0	AGREED
N3-010464	CR	Correction to Calling-station-id	A022		A	09.61	7.4.0	AGREED
N3-010465	CR	Correction to Calling-station-id	A021		F	09.61	6.5.0	AGREED
N3-010466	REPORT	Report from SA2 drafting session on QoS						NOTED
N3-010467	DISCUSSION DOC	Results of drafting session on COPS						AGREED
N3-010468	TS	Proposed draft TSab.cde "QoS signalling flows"				ab.cde		REVISED TO 0482
N3-010469	DISCUSSION DOC	Proposed scenario for MO end-to-end QoS signalling flow without SBLP without RSVP						AGREED
N3-010470	PRESENTATION	Architectural definitions						NOTED
N3-010471	CR	Standard method for updating information between GPRS and external PDN using RADIUS	023	2	F	29.061	4.2.0	AGREED
N3-010472	CR	Standard method for updating information between GPRS and external PDN using RADIUS	034		F	29.061	3.7.0	AGREED
N3-010473	CR	Standard method for updating information between GPRS and external PDN using RADIUS	A028		F	09.61	7.4.0	AGREED
N3-010474	CR	Standard method for updating information between GPRS and external PDN using RADIUS	A027		A	09.61	6.5.0	AGREED
N3-010475	CR	Standard method for interworking between GPRS and external PDN using RADIUS	024	3	A	29.061	4.2.0	AGREED
N3-010476	CR	Standard method for interworking between	033		A	29.061	3.7.0	AGREED

TDoc #	Type	Tdoc Title	CR #	Rev	CAT	Spec	C_Ver	Status
		GPRS and external PDN using RADIUS						
N3-010477	CR	Standard method for interworking between GPRS and external PDN using RADIUS	A029		A	29.061	7.4.0	AGREED
N3-010478	CR	Standard method for interworking between GPRS and external PDN using RADIUS	A030		F	29.061	6.5.0	AGREED
N3-010479	TS	Latest draft of TS 29.162				29.162		REVISED TO 0486
N3-010480	TS	Policy control over Go interface				29.207	0.2.0	AGREED
N3-010481	LS OUT	LS OUT on PDP context based Go Interface						APPROVED
N3-010482	TS	Proposed draft TSab.cde "QoS signalling flows"				ab.cde		REVISED TO 0484
N3-010483	LS OUT	LS OUT on Signalling Transparency [Re. OSV-01043 and S2-012321]						APPROVED
N3-010484	TS	End to End QoS signalling flows				ab.cde	0.2.0	AGREED
N3-010485	WID	IMS to CS interworking						AGREED
N3-010486	TS	Interworking between the IM CN subsystem and IP networks				29.162	0.3.0	AGREED

Annex C: Access to 3GPP documents

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

3GPP email lists:

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

```
subscribe  3GPP_TSG_CN_WG3  YourFirstName  YourLastName
```

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

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

```
QUERY *
```

Email archives:

All 3GPP lists have an associated archive of every email sent via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest was 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

<table>
<tr><td colspan="2">Document History</td></tr>
<tr><td>19th October 2001</td><td>Draft v1.0.0 distributed to CN3 chairman for comments</td></tr>
<tr><td>29th October 2001</td><td>DRAFT v1.1.0 dispatched by e-mail exploder to the CN3 list.

Comments, if any, to be addressed to:

David Boswarthick, 3GPP TSG-CN3 Support
MCC - ETSI Secretariat
Tel :+33 (0)4 92 94 42 78

e-mail: david.boswarthick@ETSI.fr

A deadline of 2 weeks was given to the CN3 delegates for e-mail comments on the draft report.

Comments back by 12th November 2001</td></tr>
<tr><td>9th November 2001</td><td>Updated DRAFT v2.0.0 placed to the server</td></tr>
<tr><td></td><td>N3-010488[v2.0.0] VARIOUS comments made by CN3 at the beginning of CN3#20 meeting. Updated to N3-010561 and placed to the server as v3.0.0.</td></tr>
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