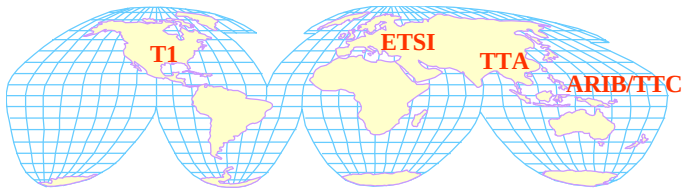
3GPP TSG CN Plenary Meeting #13 **NP-010606**
Beijing, China, 12th -14th September 2001

Source:	TSG CN WG4
Title:	Meeting reports after CN#13
Agenda item:	6.4.1
Document for:	Information

Introduction:

This document contains TSG CN WG4 meeting reports after CN#13, and are forwarded to TSG CN Plenary meeting #14 for information.

TSG CN WG4 #10 meeting report, Brighton, UK
TSG CN WG4 #11 meeting report, Cancun, MEXICO



Third Generation Partnership Project

Draft Meeting REPORT v1.0.0
3GPP TSG_CN_WG4#11

Cancun, MEXICO
26th November – 30th November 2001

North American friends of 3GPP

Chairman:	**Mr. Ian Park, Vodafone**
Vice Chairmen:	**Mr. Peter Schmitt, Siemens**
	Mr. Toshiyuki Tamura, NEC
MCC Support:	**Mr. Kimmo Kymäläinen, ETSI MCC.**

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1 Opening of the meeting & Approval of Agenda

Mr. Ian Park, CN4 chairman opened the meeting. Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC).

1.1 Make calls for IPRs

The document is included in Annex C.

The agenda was presented and **approved** (N4-011373).

2 Document Allocation

The document allocation (N4-011242-rev2) was **approved**

3 Meeting Reports

3.1 Approval of the report of CN4 #10, Brighton, UK

The Brighton meeting report (N4-011246) was **approved**. The document was raised to version 3.0.0. and will be uploaded to the server.

3.2 Report of RAN3/CN4 ad hoc on SUA, Helsinki, Finland

The SUA ad hoc meeting report (N4-011245) was **noted**.

4 Liaison Statements

Document: **N4-011329**
Title: LS on external Network Assisted Cell Change
Source: GERAN2
Presented: Mr. Ian Park, chairman
Discussion:

Decision: **Noted**

Document: **N4-011332**
Title: Answer LS on “Stop reporting type”
Source: RAN3
Presented: Mr. Jeremy Fuller, Nortel Networks
Discussion:

Decision: **Noted**

Document: **N4-011333**
Title: Response to “Answer to LS on adding a RANAP cause to the Relocation Cancel Request” (S2-012457)
Source: RAN3
Presented: Mr. Michael Young, Motorola

Discussion: **Noted**

Document: **N4-011334**
Title: Reply to LS “Update of Iu-Flex status”
Source: RAN3

Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011336**
Title: LS response on “APN-OI needed in the SGSN for charging purposes”
Source: SA2
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Noted**

Document: **N4-011338**
Title: Reply to Liaison Statement on Usage of Private ID
Source: SA2
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Noted**

Document: **N4-011342**
Title: Response to the LS S2-012896 from SA3 on Security Aspects related to the IMS Authentication.
Source: SA2
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Noted**

Document: **N4-011343**
Title: Response to SA2 LS on Cell ID in SIP messages
Source: SA3
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Noted**

Document: **N4-011344**
Title: Response to LS from CN1 (N1-011430/S3-010452) Liaison Statement on Usage of Private ID
Source: SA3
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Noted**

Document: **N4-011346**
Title: Response to LS S2-012456 from SA2 on Security aspects for IMS related to Authentication
Source: SA3
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Noted**

Document: **N4-011347**
Title: Response to LS S2-012311, LS CN1-011332 on the use of Network Domain Security for protection of SIP signalling messages.
Source: SA3
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011349**
Title: LS to GSM-A TWG/SERG “regarding User Profile”
Source: GUP
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011377**
Title: Liaison Statement reply on Subscriber and Equipment Trace (TS 32.108)
Source: SA5 SWG_B
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Response LS to SA5, tdoc N4-011383

Decision: **Noted**

Document: **N4-011378**
Title: Liaison Statement on 3GPP Generic User Profile Stage 1
Source: SA1
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011379**
Title: Response to: Liaison Statement on Usage of Private ID
Source: SA1
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011416**
Title: Liaison Statement on “Response to RANAP Indication of Modify Support of Link Characteristics”
Source: RAN3
Presented: Mr. Jeremy Fuller, Nortel Networks
Discussion:

- RAN3 say they can't accept our solution, but they don't offer any alternative!
- Nortel Networks: We are not likely to find an alternative solution before the CN plenary.
- It was confirmed that RAN3 did reject the counterpart CR to 25.413.
    - N4-011077 approved at Brighton is rejected.

Decision: **Noted**

Document: **N4-011417**
Title: Liaison Statement on Implicitly registered IMPU(s)
Source: SA3
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

Decision: **Noted**

Document: **N4-011442**
Title: Liaison Statement on MSISDN Address resolution for MMS using MAP operations
Source: T2
Presented: Mr. Ian Park, Chairman
Discussion:

△ **Postponed to CN4#12.**

Decision: **Noted**

5 Work Item Management

6 Release 5

6.1 HSS – CSCF Cx interface

Document: **N4-011339**
CR:
Title: Reply LS on “Selection of S-CSCF by I-CSCF based on capability requirements”
Source: SA2
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011300**
CR:
Title: Capabilities for the selection of S-CSCF
Source: Ericsson, Nokia
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- 29.228
  - Editorial modifications made
  - Nortel has concerns over potential interoperability problems, because the specification isn't tight enough about how the profile information and the S-CSCF capability information are encoded.
- 29.229
  - Discussion revealed that a single capability AVP could represent one or more services.
  - CN4 needs to guarantee that the semantic of the AVP when it is used to denote S-CSCF capabilities is the same as the semantic when it is used to denote the requirements of the subscriber profile.
  - Nortel Networks: We have several ways to represent services in a single capability IE.
- CN4 will accept the current text in 1300 as the basis for further development.

Decision: **Noted**

Document: **N4-011341**
CR:
Title: LS on Optimization of the Registration Information Flows
Source: SA2
Presented: Mr. Ian Park, Chairman
Discussion:

- Lucent: SA2 have decided not to show the optimisation in their specs, but to leave it up to the protocol groups to do the tuning.

Decision: **Noted**

Document: **N4-011376**
CR:
Title: Capabilities for the selection of S-CSCF
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- Vodafone: The profile information isn't acknowledged at the application level.

    - Ericsson: Transport layer provides adequate protection (we will use SCTP).
- In section 6.1.4, "User-Name" should be "User-Data".

Decision: **Principles agreed**

Document: **N4-011345**
CR:
Title: Response to LS from CN4 (N4-010969) on signalling for user authentication
Source: SA3
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Noted**

Document: **N4-011299**
CR:
Title: Capabilities for the selection of S-CSCF
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

Decision: **Principles agreed**

Document: **N4-011295**
CR:
Title: TS 29.228 IP Multimedia Subsystem Cx interface; signalling flows and message contents
Source: Editor
Presented:
Discussion:

Decision: **Principles agreed**

Document: **N4-011296**
CR:
Title: TS 29.229 Cx Interface based on the Diameter protocol; Protocol details
Source: Editor
Presented:
Discussion:

Decision: **Principles agreed**

Document: **N4-011297**
CR:
Title: Transport protocol for Diameter in the Cx interface
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- Proposes to mandate the use of SCTP as a carrier for DIAMETER messages.
- Nortel Networks: It would be useful to allow the possibility to use TCP as an alternative.
    - Ericsson doesn't like the addition of an option.
- Lucent support the use of only SCTP.

Decision: **Principles agreed**

Document: **N4-011298**
CR:
Title: Reference to 33.210 for the protection of Diameter messages
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- CN4 decided to remove everything except the reference to 33.210.
- Lucent: CN4 needs to expand from this reduced base. This can be handled in further contributions.

Decision: **Principles agreed**

Document: **N4-011301**
CR:
Title: Logical model for user profile downloaded over Cx interface
Source: Ericsson, Nokia
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- The principle of including the graphical and tabular description of user profile information in 29.228 was agreed in Brighton.
- Hutchison 3G: Where in the tree are the permitted media types stored?
    - Ericsson: This will be for further study.
- Text in 4th bullet under the figure in chapter 3 needs improvement
- Nortel Networks: When we will decide on the choice of abstract syntax notation?
    - Vodafone: CN4 ought to try to decide in principle this week.
    - Nokia: It's too early to decide this week; they are still studying it.
    - Vodafone: We should try to reach a decision before the end of this year.
    - Nokia can report on their study by 2 weeks from now.
- Companies will have to provide speculative inputs with their favoured ASN definitions, against the possibility that the decision will go their way.
- The LS N4-011406 to GUP ad hoc and cc CN1.

Decision: **Principles agreed**

Document: **N4-011382**
CR: 23.008-038r2
Title: Addition of multimedia information elements
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Lucent: We should change the name for S-CSCF. SA2 have decided to call it "Call **Session** Control Function".
- Table 5.3 needs entries in the "subclause", "S-CSCF" & "Type" columns; "HSS" column contents should be transferred to the "Type" column.
- CR will be revised.
    - REL-5 CR will be handled in the next meeting.

Decision: **Postponed**

6.2 IP signalling in the Core Network

Document: **N4-011354**
CR:
Title: TR29.903 SUA Feasibility Study
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- There are no changes of substance since the version, which was presented in Brighton.

Decision: **Revised** to N4-011415

Document: **N4-011302**
CR:
Title: Comments on TR 29.903 V 0.3.0, Feasibility Study on SS7 signalling transport in the core network with SCCP-User Adaptation Layer (SUA)
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

- Section 7.1
    - Removal of text from 7.1 a) accepted.

    - Different views which of the three options a), b) & c) (local tables, ENUM or local tables + external database) should be ruled out or recommended. This resolves to whether the (e.g. ENUM/DNS servers) is necessary.
    - Note 2 will read "Note2: In order to provide AMF, a proprietary DNS solution can be used."
- Section 7.1.2
    - Ericsson: Subclause will be added: c) Global Title + optional SSN to IP Address +Global title+ SSN.
- Section 7.1.3
    - Proposed addition of AMF requirements to 7.1.3 is accepted.
- Section 7.2
    - Motorola objects the proposal deletion of text from 7.2.
    - Lucent proposed to move the text.
        - Ericsson wants to strike out to a separate section on evolution.
    - Ericsson accepts in principle, but still has some concerns about the last paragraph.
- Section 7.2.4.
    - Ericsson asked for clarification in 7.2.4 on the effect of failure in the IP network.
        - Motorola believed that this is not relevant to the feasibility report.
    - Cisco thought we could add an outline description.
        - Accepted by CN4
- Section 7.3.5.
    - Principle was agreed.
    - The proposed text needs some improvements.
- Section 7.3.6.
    - Ericsson proposed change to text under figure 10 (with further adjustment)
        - "Figure 10 shows one MTP network scenario. In such a network, a specific GTT node is not needed, as one can assume the uniqueness of the point code."
        - Accepted by CN4
    - First change to text under figure 11 is accepted by CN4.
        - "The operators" will be "SUA relays"
    - Second change is accepted by CN4.
        - "Aware of" will be "in the same network as"
    - Third change is accepted by CN4.
        - "Big cellular networks" will be "inter-network roaming cases"
    - Fourth change:
        - "GTT is not required" should be "GTT is only required in the originating SP"
        - Cisco opposed.
        - Ericsson: The originating node has to translate the GT to an IP address.
    - Rest of proposed changes to 7.3.6 accepted.
- Section 7.3.8.1
    - Changes are accepted by CN4
- Sections 10 and 12
    - Ericsson proposes to strike out section 10 because there is no agreement on the content.
    - Motorola: CN4 have a responsibility to summarise the comparison of M3UA and SUA.
    - Lucent: We should allow the different parties to set out their views in section 10.
    - Cisco: Both section 10 & section 12 should be redrafted to have 3 parts:
        - Agreed statement of facts
        - Analysis by "pro SUA" party
        - Analysis by "con SUA" party.
    - Lucent: We could combine sections 10 & 12.
    - Conclusions by CN4: Sections are comparted for three parts as proposed by Cisco

Decision: **Noted**

Document: **N4-011415**
CR:
Title: TR29.903 SUA Feasibility Study

Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

Decision: **Revised** to N4-011451

Document: **N4-011451**
CR:
Title: TR29.903 SUA Feasibility Study
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Approved to raise to version 2.0.0
- Will be presented for approval at CN#14 with the text in the "Conclusion" as follows:
  - Unfortunately, it has not been possible to reach consensus in CN4 on whether or not to recommend that CN4 proceed with specifying the possible use of SUA for the transport of the BSSAP+, CAP and MAP protocols.
  - CN plenary are asked to decide how any further work should proceed.

Decision: **Approved**

6.3 AMR Wideband

Document: **N4-011331**
CR:
Title: WID: AMR-WB Speech Service – Core Network Aspects
Source: RAN3
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011340**
CR:
Title: Reply LS on the WID: AMR-WB Speech Service – Core Network Aspects
Source: SA2
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011384**
CR:
Title: Liaison Statement on AMR - Wideband Requirements
Source: SA1
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Noted**

6.4 Network domain security

6.5 Intra Domain connection of RAN nodes to multiple CN nodes

Document: **N4-011303**
CR: 29.002-352
Title: Relay of Send Identification operation for IuFlex
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson

Discussion:

- MAP protocol point of view there are no impacts.
- Siemens: Does the intermediate node have to relay the response from the responding node?
    - Ericsson: Signalling would be easier if the responder sends its response directly to the requester.
    - CN4 agreed to deal with the relay function by a CR to 23.012.
    - Ericsson will draft the CR for the next meeting.

Decision: **Withdrawn**

Document: **N4-011448**
CR: 23.009-052r3
Title: Introduction of Intra Domain Connection of RAN
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Agreed**

6.6 GPRS and LCS

Document: **N4-011264**
CR:
Title: Introducing the enhanced user privacy to the LCS REL-5
Source: NTC, Ericsson
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: **Noted**

Document: **N4-011381**
CR: 29.002-355r1
Title: LCS Capability Handling for UE's
Source: NTC, Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- Linked CR 23.271-038r1 already approved at SA2.
- Siemens challenges the use of Update Location/Update GPRS location to carry the UE capabilities, because it isn't necessarily sent to the HLR every time the UE (capabilities) change.
    - Ericsson: This will still give an improvement over the current situation, where the UE capabilities are never sent to the HLR.
- Siemens favours defining a completely new MAP message to carry UE capabilities to the HLR.
    - Nortel Networks opposes the inclusion of new MAP capability for a function (notifying lack of support of a feature), which will fade away before the new MAP capability can be rolled out.
    - Nortel Network agreed to reserve their concerns until the CN plenary.
- Siemens and Ericsson will talk to their SA2 colleagues to find out whether we need 100% confidence that the HLR knows the UE's capabilities.
    - Report back by Ericsson: SA2 have debated this, and they are prepared to accept that the reporting in the Update Location procedure does not give 100% coverage of the problem.

Decision: **Agreed**

6.7 Any Other Business

6.7.1 CAMEL phase 4

Document: **N4-011247**
CR: 23.018-082
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011248**
CR: 23.079-016
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011249**
CR: 23.083-009
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011403**
CR: 29.002-368
Title: Collective CR for CAMEL 4
Source: Ericsson
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011375**
CR: 23.016-21
Title: Collective CR for CAMEL 4
Source: Siemens
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011396**
CR:
Title: Specification at Si Interface
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

- Lucent: We should ask CN plenary to adjudicate on who is responsible for the information flows and protocol design over the Si (HSS <-> S-CSCF) interface.
- Nortel sees similarities with the existing MAP signalling between HLR and MSC/VLR or SGSN on the protocol choice. Nortel wants to limit the number of new functions to be added to the new interface.
- Agreed that CN2 & CN4 will recommend to CN that the handling of the work is as proposed by Siemens, i.e. stage 2 in CN2 & stage 3 in CN4.

- CN2 chairman: There may well be a backwards impact from the protocol choice on to the stage 2.
- CN2 chairman: 23.278 is expected to be the stage 2 for CAMEL control of IMS.

Decision: **Noted**

Document: **N4-011284**
CR: 29.002-350
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- CN2 chairman proposed we also report network-initiated GPRS detach.
  - Supported by Nortel Networks
  - Joint session agreed.
- Ericsson proposes to remove the existing elements of the subscriber state from the ext-subscriber state.
  - Siemens supported
- In the ext-subscriber state, "notprovidedby VLR" should be "notprovidedbySGSN".
- Siemens proposed to rename ext-subscriberstate to PS-subscriberstate.
- Ericsson: We should clarify the domain of application for subscriberstate (CS only) & PS-subscriberstate (PS only).
- Ericsson: We should replace the CHOICE type by a SEQUENCE with a constraint that exactly one element shall be present.
- Ericsson: The charging ID should be defined as an octet string size 4, internal structure as defined in 29.060 (as is done in 29.078).
  - Vodafone proposed to import from 29.078.
  - Siemens: If something is used in both CAP and MAP, we define it in MAP and export it to CAP, recognizing that this affects the CAP specification.
  - Nortel Networks has reservations about the retrospective changes to CAP.
  - CN2 chairman: CN2 won't be changing CAP for Release 99, and the definition will be identical.
- CN2 chairman: There may be some backwards impact on the 23.078 CR, as well as the necessary CR for impact on 29.078.

Decision: **Revised Tdoc N4-011410**

Document: **N4-011410**
CR: 29.002-350r1
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Revised Tdoc N4-011424**

Document: **N4-011424**
CR: 29.002-350r1
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

- Content will be included in the CN2 collective CR to 29.002 for Camel phase 4

△ **CR is not sent to CN#14 for approval.**

Decision: **Agreed**

Document: **N4-011292**
CR: 29.002-351
Title: Transferring MS classmark information to the gsmSCF
Source: Vodafone
Presented: Mr. Ian Park, Chairman

Discussion:

- Ericsson: why to transport the IMEI;
  - CN4 Chairman: It can be used to access a database to find the terminal capabilities.
- Ericsson: How does the gsmSCF trigger the HLR to trigger the VLR or SGSN to provide the IMEI and classmark information?

Decision: **Postponed to CN4#12**

6.7.2 GPRS

Document: **N4-011288**
CR:
Title: Using IPv6 in Core network and maintaining compatibility to IPv4 GSNs
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Proposal: Proposes to include both IPv4 and IPv6 addresses in GTP tunnels to cope with the existence of dual stack nodes in the process of evolution from IPv4 to IPv6.
- Motorola asks for a fuller analysis to allow a reasoned decision to be reached.
- Nortel Networks wants a fuller consultation with SA2.
  - Lucent: The issues are really protocol-related, so we shouldn't be asking SA2 for advice, we should be telling them what we propose to do.
  - Seppo agrees with Alessio that it's a protocol issue.
  - Lucent: We should send an LS to SA2,
- Nokia wants to concentrate the discussion with SA2 on the architectural impact of migration IPv4->IPv6.

Decision: **Noted**

Document: **N4-011320**
CR: 29.060-277
Title: PDP Context handling at Inter SGSN RA Update
Source: Ericsson
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

- Nokia: Concern that the solution proposed here is too complex
- The user should determine the priority order for which contexts should be kept.
- Motorola: Why do we need a new IE to indicate how many contexts are in the priority list?
  - Ericsson: SA2 requirement in the stage 2 for the indication in a new IE
  - Nokia: SA2 did not ask for an indication of the number of contexts in the priority list.
  - Motorola: If the new SGSN assumes that the old SGSN has always put the contexts in priority order it should still work.
- Cisco: The new SGSN should have the right to apply its own priority ordering in spite of the priority information sent by the old SGSN.

Decision: **Revised** to N4-011431

Document: **N4-011431**
CR: 29.060-277r1
Title: PDP Context handling at Inter SGSN RA Update
Source: Ericsson
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

- CR will be revised for the next meeting.

Decision: **Postponed to CN4#12**

Document: **N4-011322**
CR:
Title: Remove hanging context in GGSN

Source: Ericsson
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

- Ericsson recommends that CN4 adopt the solution as proposed in this discussion paper for Release 5.
    - Nokia, Motorola and Lucent all think there is a better way to solve a problem.

Decision: **Noted**

6.7.3 Bearer independent architecture

Document: **N4-011306**
CR: 23.205-013
Title: Management locking of MG
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

- Siemens proposed to change "management locking" to "maintenance locking".
    - Accepted by CN4
- Lucent: Do we need the new functionality?
    - Ericsson: H.248 already includes this functionality.
- Motorola: The MGC should be in control of when the MGW is taken out of service
    - Ericsson: This would need a new H.248 package.

Decision: **Revised N4-011388**

Document: **N4-011388**
CR: 23.205-013r1
Title: Maintenance locking of MG
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011307**
CR: 29.232-019
Title: Management locking of MG
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Revised N4-011389**

Document: **N4-011389**
CR: 29.232-019
Title: Maintenance locking of MG
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

- The note will be expanded to explain that the termination which is taken out of service is an MGW.
- The notation "/" will be used to indicate that the reasons for the MGW going out of service (MGW impending failure or Termination taken out of service) are alternatives.

Decision: **Revised N4-011447**

Document: **N4-011447**
CR: 29.232-019
Title: Management locking of MG
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Agreed**

6.7.4 Service change & UDI fallback

Document: **N4-011318**
CR:
Title: Fallback from UDI multimedia and changing between speech and multimedia
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- CN3 have approved the necessary WID in principle, but are refining it.
- SA4 will treat the multimedia codec as a speech codec, in order to have it treated properly in BICC.
- Ericsson: There will be minimal impact on the bearer-independent architecture.
- NEC: SA4 may want not to include the multimedia codec as a speech codec.

Decision: **Noted**

6.7.5 SMS

7 UMTS Release 4 & Release 99 maintenance

7.1 Location Services

Document: **N4-011337**
CR:
Title: LS “Stop reporting type”
Source: SA2
Presented: Mr. Pompeo Santoro
Discussion:

Decision: Noted

Document: **N4-011308**
CR: 29.010-042 (R99)
Title: Alignment of 29.010 to 25.413 for LCS
Source: Ericsson
Presented: Mr. Pompeo Santoro
Discussion:

- Siemens: The oddity of keeping the mapping table under figure 66.
  - CN4 agreed to delete the table
- Lucent: The complete deletion of section 4.9.3.4 may be excessive. We need to consider the need to stop the change of service area.
  - Ericsson: This issue should be covered elsewhere.

Decision: **Revised**, N4-011420

Document: **N4-011420**
CR: 29.010-042r1 (R99)
Title: Alignment of 29.010 to 25.413 for LCS
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-011262**
CR: 29.002-344 (Rel-4)
Title: Correction of the priority for “SRI for LCS”
Source: NTC

Presented: Ms. Miyuki Soejima, NTC
Discussion:

- NTC: Stage 2 doesn't indicate how the HLR signals the priority ordering to the GMLC.
- Nokia: The CR transfers the responsibility for the priority ordering from the GMLC to the HLR.
    - NTC: The stage 2 already indicates that the HLR determines the priority, but it doesn't indicate how the HLR signals the priority ordering to the GMLC.

Decision: **Agreed**

Document: **N4-011263**
CR: 29.002-345 (Rel-4)
Title: Correction of the definition for “Supported LCS Capability Set”
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- CN4 will send a LS to SA2
    - SA2 will change the stage 2.
    - CR is not needed anymore

Decision: Withdrawn

Document: **N4-011422**
CR:
Title: LS to SA2 on Supported LCS Capability Set
Source: CN4
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: Agreed

Document: **N4-011285**
CR: 29.002-316 (Rel-4)
Title: Corrections on the SDL diagrams for LCS
Source: Fujitsu
Presented: Mr. Shinichiro Aikawa, Fujitsu
Discussion:

Decision: **Agreed**

7.2 Core Network Security

Document: **N4-011348**
CR:
Title: LS on MAPsec error handling
Source: SA3
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- NEC: The request for a generic coding of MAP security errors means a new error code.
    - Siemens thinks it doesn't.
- Nokia: The attached SA3 CR to 33.200 is not the latest version.
    - Siemens: True, but the later changes are not relevant to what we have to do.
- Ericsson: When will the MAP security stage 2 be stable enough to use as the basis for MAP to make it stable? There appear to be several changes coming along!
- Siemens: If a replayed message is discarded this will lead to failure of the dialogue if a real message arrives later in the same dialogue.
- Reply LS to SA3 N4-011426

Decision: **Noted**

Document: **N4-011374**
CR: 29.002-360
Title: Aligning the security header elements with TS33.200

Source: Hutchison 3G
Presented: Mr. Kevan Hobbis, Hutchison 3G
Discussion:

- Siemens: There is a need to change the ASN.1 to align with the new contents of the table.
- Ericsson: We don't have visibility of the approved stage 2 change from SA3.
    - It is the document N4-011425

Decision: **Revised,** N4-011423

Document: **N4-011423**
CR: 29.002-360r1
Title: Aligning the security header elements with TS33.200
Source: Hutchison 3G
Presented: Mr. Kevan Hobbis, Hutchison 3G
Discussion:

Decision: Agreed

Document: **N4-011425**
CR: 29.002-360r1
Title: LS on Aligning the security header texts in TS 29.002 and TS 33.200
Source: SA3
Presented: Mr. Kevan Hobbis, Hutchison 3G
Discussion:

Decision: Noted

7.3 Bearer independent architecture

Document: **N4-011277**
CR:
Title: Termination ID's naming convention
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson and Siemens supported the alternative 1.
- Alternative 1 is supported by CN4.

Decision: **Noted**

Document: **N4-011278**
CR: 29.232-016
Title: Corrections to ABNF coding of PackageIDs
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Agreed**

Document: **N4-011304**
CR: 29.232-017
Title: Corrections to ABNF coding of PackageIDs
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

- Agreed by consensus

Decision: **Agreed**

Document: **N4-011309**
CR:
Title: Introduction of new timer to support long paging in bearer independent network

Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

- CN4 agreed with principles of discussion paper.
    - Nortel Networks has some reservations about following Ericsson's approach. They are worried that we may be shifting the problem downstream. Further study is needed.

Decision: Noted

Document: **N4-011359**
CR: 23.205-014r1
Title: New timer to support long paging in bearer independent network
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Revised**, N4-011427

Document: **N4-011427**
CR: 23.205-014r2
Title: New timer to support long paging in bearer independent network
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Agreed**

Document: **N4-011361**
CR: 23.205-016r1
Title: Correction for Release of Network Bearer
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

- CR approval depends on ITU-T decision.

Decision: Agreed

Document: **N4-011369**
CR: 23.153-029 (Rel-4)
Title: Clarification for Codec Modification in case of SS/IN interworking
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Agreed

Document: **N4-011363**
CR: 29.232-020r1 (Rel-4)
Title: Correction of 3GUP package sub-list type
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: Agreed

7.4 TrFO

Document: **N4-011279**
CR: 23.153-028
Title: Removal of "No Data" SDUs
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia

Discussion:

Decision: **Agreed**

7.5 GPRS & GTP enhancements

Document: **N4-011330**
CR:
Title: Liaison Statement response on 'LS On the handling of the Protocol Configuration Options IE'
Source: CN1
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

Decision: **Noted**

Document: **N4-011283**
CR:
Title: Discussion paper on the handling of the PCO IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

Decision: **Noted**

Document: **N4-011280**
CR: 29.060-275
Title: Clarification on the handling of protocol configuration options IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Motorola asks for explicit statement in 7.3.1 that the SGSN shall transparently copy the PCO IE if it's received from the MS.
    - Accepted by CN4
- Motorola: Why do we replicate the condition for including the PCO IE in the PDP context response, when it's specified in 24.008?
- Motorola asks for deletion of the reference to IPCP & RFC 1877.
    - Ericsson supports.
    - There are some occasions when the PCO shall not be sent even though the IPCP was present in the request.
- Nokia wants to keep the existing text in 7.3.2 about the EUA taking precedence over the address in the PCO IE.

Decision: **Revised,** Tdoc N4-011428

Document: **N4-011428**
CR: 29.060-275r1
Title: Clarification on the handling of protocol configuration options IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

Decision: Agreed

Document: **N4-011257**
CR: 29.060-254r1
Title: Add APN.OI sub-field to the APN in PDP context IE
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- Nokia and Ericsson don't see this is a critical correction.
- CN4 accepted it's not a critical correction
- Nokia can't accept the CR.

Decision: **Withdrawn**

Document: **N4-011258**
CR: 29.060-256r1 (Rel-4)
Title: Clarification on IMSI format (Unused fields)
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

NEC: Intention is to put the change into Release 5.

Decision: **Withdrawn**

Document: **N4-011429**
CR: 29.060-282 (Rel-5)
Title: Clarification on IMSI format (Unused fields)
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Agreed**

Document: **N4-011261**
CR:
Title: Create PDP context request for an existing PDP context
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- NEC: Intention is to provide evidence in favour of improving the text in 29.060 for Rel-5.

Decision: Noted

Document: **N4-011282**
CR: 29.060-253r1
Title: Clarification on create PDP context for existing PDP context
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Nokia don't see this is an essential correction.
    - Alcatel and NEC support Nokia's view.

Decision: **Rejected**

Document: **N4-011281**
CR: 29.060-276
Title: About Recovery mechanism in GTP
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Nokia has the concern about optional vs. conditional.
- Nokia: There might be misalignment with 23.007.

Decision: Postponed to CN4#12

Document: **N4-011286**
CR: 29.060-257
Title: Clarification on the use of the Teardown indicator IE
Source: Fujitsu
Presented: Mr. Shinichiro Aikawa
Discussion:

- Motorola can't accept the CR.

Decision: **Revised**, Tdoc N4-011435; also mirror CR N4-011287 for Rel-4 revised, Tdoc N4-011436

Document: **N4-011435**
CR: 29.060-257r1
Title: Clarification on the use of the Teardown indicator IE
Source: Fujitsu, Motorola
Presented: Mr. Shinichiro Aikawa
Discussion:

- Nokia and NEC can't accept revised version of 29.060-257r1.

Decision: **Rejected**, also mirror CR N4-011436 for Rel-4 rejected

Document: **N4-011321**
CR: 29.010-045
Title: Cause Code mapping between 29.060 and 24.008
Source: Ericsson
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

- NEC: Why is there no mapping between 29.060 and 25.413?
  - Ericsson: There is no coupling between 29.060 signalling and 25.413 signalling for MS procedures.
- Nokia wants to postpone CR to resolve the misalignments with 24.008.
  - Ericsson: The proposal has been out for email discussion since before the last meeting.
  - Siemens: There were CN1 experts involved in the early stages of this CR.
  - Nortel Networks: The principle of the mapping table is good, but there may be the need for some enhancements to 24.008.

△ **Nokia will send details of the misalignments with 24.008 to the CN4 email list before (18:00 CET) 7th December.**

Decision: Postponed to CN4#12

Document: **N4-011323**
CR: 29.002-358
Title: Clarify QoS handling during ISD
Source: Ericsson
Presented: Mr. Frode Bjelland, Ericsson
Discussion:

- NEC and Nokia don't believe this is a critical correction.
- Nokia: The conversion from v1 parameters to v0 may disagree with the explicit v0 parameters.

Decision: Withdrawn

Document: **N4-011368**
CR: 29.060-280 (R99)
Title: Clarification on PDP address field and end user address information element in create PDP context response
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Category F: agreed by consensus
- NEC can't accept CR for R99

Decision: **Rejected**

Document: **N4-011430**
CR: CR 29.060-281 (Rel-4)
Title: Clarification on create PDP context for existing PDP context
Source: Lucent
Presented: Mr. Alessio Casati
Discussion:

- Nokia disagree the essential correction classification.
- CN4 agreed the CR is categorised as agreed by consensus.

- Ericsson objects to the CR because it can lead to hanging PDP-contexts.

Decision: **Rejected**

7.6 Camel phase 3

Document: **N4-011269**
CR:
Title: Indication of deletion of CSI in Notify Subscriber Data Change
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- Proposal: After detailed checking Siemens believe that this CR is not an essential correction since deletion of a CSI and deactivation of a CSI (which effectively is a modification of a CSI) are not essentially different; they result in the same behaviour. The indication of deletion of CSI is believed to be an addition of a feature rather than a correction.
    - Siemens therefore cannot agree on the CR for R99 and ask CN4 to withdraw their approval.
- Lucent: The distinction between deletion & deactivation is important, and the deletion event needs to be reported to the gsmSCF to ensure consistent behaviour.
    - Ericsson and Alcatel agreed with Lucent.
- Siemens wants an explanation of the difference in service behaviour at the gsmSCF.
    - Lucent: This will depend on the service logic design. If the CSI is deleted from the HLR, the gsmSCF can't do anything to replace it; if it's deactivated the gsmSCF can reactivate it.
    - Ericsson: The report from the HLR of a modified CSI carries the result of the modification, but if the CSI is deleted, there is no modified value to report.
- Joint session agreed to support CR and not to withdraw it.

Decision: **Noted**

Document: **N4-011272**
CR: 29.002-346
Title: ASN.1 correction
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Agreed,** Also mirror CR N4-0112731for Rel-4 (29.002-347) approved

Document: **N4-011385**
CR: 23.018-089
Title: Corrections in the ATI mechanism description
Source: France Télécom
Presented: Mr. Mikhael Said, France Télécom
Discussion:

Decision: **Revised N4-011407**

Document: **N4-011407**
CR: 23.018-089r1
Title: Corrections in the ATI mechanism description
Source: France Télécom
Presented: Mr. Mikhael Said, France Télécom
Discussion:

- Ericsson: We should specify that the Location Reporting Control should be for Direct Reporting.

Decision: **Revised N4-011412**

Document: **N4-011412**
CR: 23.018-089r2

Title: Corrections in the ATI mechanism description
Source: France Télécom
Presented: Mr. Mikhael Said, France Télécom
Discussion:

Decision: **Agreed,** Also mirror CRs for Rel4 and Rel5 agreed; 23.018-90r2 and 23.018-091r1

Document: **N4-011393**
CR: 29.002-363
Title: Syntax error in the ATM result and ATSI result
Source: Alcatel
Presented: Mr. Christian Homann, Alcatel
Discussion:

-

Decision: **Agreed,** Also mirror CR N4-011394 for Rel-4 (29.002-364) approved

Document: **N4-011397**
CR: 23.078-356 (CN2 CR)
Title: Request of multiple SS-Code changes in the ATM request
Source: Alcatel
Presented: Mr. Christian Homann, Alcatel
Discussion:

-

Decision: **Noted**

Document: **N4-011395**
CR: 23.078-363 (CN2 CR)
Title: Clarification: use of SS-Code in ATM, ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

-

Decision: **Noted**

Document: **N4-011398**
CR: 29.002-365
Title: Request of multiple SS-Code changes in the ATM request
Source: Alcatel
Presented: Mr. Christian Homann, Alcatel
Discussion:

- Siemens opposes a change in Release 99, but would be prepared to see an enhancement to the Alcatel change for Rel-5, with the constraint that group SS codes are not allowed; only the codes for individual SS.
    - Alcatel: A single SS code in a request may trigger multiple SS codes in the response.
- Siemens: If a change to an SS triggers consequential changes for other SS the consequential changes should be reported using Notify Subscriber Data Change.
- Further investigation and discussion in CN2 leads to the result that we will base the solution on a change to 23.078.

Decision: **Rejected,** Also mirror CRs for Rel4 rejected

Document: **N4-011400**
CR: 29.002-366
Title: Clarification on Any Time Subscription Interrogation result in case of multiple SS-Code
Source: Alcatel
Presented:
Discussion:

Decision: **Rejected,** Also mirror CRs for Rel4 rejected

Document: **N4-011402**
CR: 29.002-367
Title: Sending of Note Subscriber Data Modified operation relative to consistent data changes
Source: Alcatel
Presented:
Discussion:

Decision: **Rejected,** Also mirror CRs for Rel4 rejected

7.7 Handover

Document: **N4-011267**
CR: 23.009-059
Title: E-interface protocol during the supervision phase
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Agreed**, Also mirror CR 23.009-060 for Rel-4 agreed

Document: **N4-011270**
CR: 29.002-333r1
Title: RAB ID to Prepare Handover procedure
Source: Siemens
Presented:
Discussion:

- CR was approved in Brighton.
    - Siemens have had different view.
- Ericsson objected to the "comprehension required" status for the RAB Id because of implementation impact.
- CN4 didn't approve revision 1. Original CR 29.002-333 will be sent to CN#14 for approval.

Decision: **Rejected**, also mirror CR for Rel-4 rejected

Document: **N4-011314**
CR: 29.002-353
Title: Minimum MAP application context for G2G inter-MSC handover
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- Nortel Networks: The CR would mean that for GSM to GSM handover an implementation that supports only MAP v1 is non-compliant.
    - Agreed to revise to say minimum AC version 2 should be used.

Decision: **Revised**, N4-011432

Document: **N4-011432**
CR: 29.002-353r1
Title: Minimum MAP application context for G2G inter-MSC handover
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

-

Decision: **Agreed**, also mirror CR 29.002-354r1 for Rel-4 agreed

Document: **N4-011367**
CR:
Title: Bearer selection criteria of calls in a multicall
Source: Nokia

Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Noted**

Document: **N4-011365**
CR: 23.009-054
Title: Bearer selection criteria of calls in a multicall
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed**, also mirror CR 23.009-055 agreed

Document: **N4-011404**
CR: 23.009-056
Title: Usage of location Reporting for Relocation and Inter-system Handover
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Agreed**, also mirror CR 23.009-057 agreed

Document: **N4-011444**
CR: 23.009-062
Title: GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception
Source: Nokia/CN1
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed**, Also mirror CR 23.009-063r1 for Rel-4 agreed

Document: **N4-011446**
CR: 23.009-062
Title: Reflection of RRC changes in 44.018 to 23.009
Source: Nokia/CN1
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Revised** N4-011450

Document: **N4-011450**
CR: 23.009-062r1
Title: Reflection of RRC changes in 44.018 to 23.009
Source: Nokia/CN1
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed**

7.8 Any other business

7.8.1 Basic Call Handling

Document: **N4-011250**
CR:
Title: Incomplete MSISDN parameter description
Source: PTC
Presented: Mr. Ian Park, Chairman
Discussion:

- CRs will be postponed.
- In any case R99 CR will not be accepted by CN4

Decision: **Noted**

Document: **N4-011254**
CR: 23.018-086 (R99)
Title: Handling of CUG calls in non-supporting networks
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

- Nortel Networks: How do we handle the case where the GMSC supports CUG but the HLR doesn't? We could try "If CUG is supported in the HPLMN"
  - Delegates will check back home if this is acceptable.
- Ericsson: We should state that configuration info in the GMSC is needed to record whether the HLR supports CUG.

Decision: **Postponed to CN4#12**

Document: **N4-011256**
CR: 23.018-088 (Rel-5)
Title: Handling of CUG calls in non-supporting networks
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

Decision: **Postponed to CN4#12**

7.8.2 Multicall

Document: **N4-011259**
CR: 24.135-002r1
Title: Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Agreed**, Also mirror CR for Rel-4 N4-011260 (CR 24135-003r1)

7.8.3 GSM – UMTS interworking

Document: **N4-011265**
CR: 24.080-013
Title: Message type: completion of alignment to 24.007 and 24.008
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Agreed**, Also mirror CR for Rel-4 N4-011265 (CR 24.080-014)

7.8.4 SMS

Document: **N4-011353**
CR:
Title: Handling the MNRR flag in the HLR & SMS-GMSC
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

- Nortel Networks: We might be trying to solve this problem in a less than the most cost effective way.
  - Vodafone: Fixing through the standards has the benefit of avoiding many bilateral negotiations between operator & supplier.

Decision: **Noted**

Document: **N4-011293**
CR: 29.002-348r1 (R99)
Title: Handling the MNRR flag in the HLR & SMS-GMSC
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

- Nortel: Remove the "additional" from "additional absent subscriber diagnostic".
  - Accepted by CN4.
- Nokia: the MNRR is not carried as part of the MW-status.
- Ericsson objects to having the change for R99.

Decision: **Rejected**

Document: **N4-011437**
CR: 29.002-349r2 (Rel-4)
Title: Handling the MNRR flag in the HLR & SMS-GMSC
Source: Vodafone
Presented: Mr. Ian Park, Chairman
Discussion:

- Category F; agreed by consensus

Decision: **Agreed**

7.8.5 MAP Protocol

Document: **N4-011316**
CR: CR 29.010-043 (R99)
Title: Removal of deleted MAP operations
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**, Also mirror CR 29.010-044 for Rel-4 agreed.

Document: **N4-011370**
CR: 29.002-358r1 (R99)
Title: Alignment of parameter lengths with those prescribed in 08.08
Source: Nortel Networks
Presented: Mr. Jeremy Fuller, Nortel Networks
Discussion:

- Siemens: Change to CodecInfo is not backward compatible. We therefore have to keep the bounds as they were.
- Lucent: we should carry only the value part.
  - Nokia chapter 17.1.3 states that we should carry only the value part.
- Decided to take out the codec info change, and generate a new CR to cover the codec info.

Decision: **Revised**, N4-011438

Document: **N4-011438**
CR: 29.002-358r2 (R99)
Title: Alignment of parameter lengths with those prescribed in 08.08
Source: Nortel Networks
Presented: Mr. Jeremy Fuller, Nortel Networks
Discussion:

Decision: **Agreed**, Also mirror for Rel-4CR 29.002-359r2 agreed

Document: **N4-011440**
CR: 29.002-369 (R99)
Title: Codec info
Source: Nortel Networks
Presented: Mr. Jeremy Fuller, Nortel Networks

Discussion:

- Possible solutions will be discussed on the CN4 email list.

Decision: **Postponed**

7.8.6 Supercharger

Document: **N4-011440**
CR: 23.912-003 (R99)
Title: Update Location in Supercharger following receipt of Reset message from HLR
Source: Nortel Networks
Presented: Mr. Jeremy Fuller, Nortel Networks
Discussion:

- It seems to be directed to the wrong document (should be to 23.116).

Decision: **Agreed**, Also mirror CR for Rel-4 agreed

8 GSM maintenance

8.1 GPRS

Document: **N4-011355**
CR: 09.60-A109
Title: Clarification on SGSN Context Ack msg
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Nokia, Ericsson and Lucent don't believe this is an essential correction.
  - CN4 didn't agree the category: F essential correction.
  - Companies can't either support CR as F agreed by consensus.

Decision: **Rejected**, Also R98 CR N4-011356 (CR 09.60-A110) is rejected

Document: **N4-011357**
CR: 29.060-278
Title: Clarification on SGSN Context Ack msg
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Lucent: We agree the contents of CR, but CR needs some improvement.
- Nokia can't accept the correction for R99.

Decision: **Rejected**

Document: **N4-011358**
CR: 29.060-279
Title: Clarification on SGSN Context Ack msg
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- NEC: Definition of Conditional is misused in many place of 3GPP TS 29.060.
- Lucent: If we apply the definition in this case the rest of the 3GPP TS 29.060 is not aligned with this one.

Decision: **Postponed to CN4#14**

9 Update of the Work Plan

- Work Plan is updated
- Changes will be submitted to the next version of Work Plan.

10 Future meetings

The following meeting schedule contains modifications regarding the hosts and dates.

Date	Meeting	Venue	Host
12 – 14 December 2001	TSG-CN #14	Kyoto, Japan	TTC
28 January – 1 February 2002	CN4 #12	Sophia Antipolis, FRANCE	ETSI
6 – 8 March 2002	TSG-CN #15	Korea	TTA
8 – 12 April 2002	CN4 #13	USA east coast, Florida, USA?	North American Friends of 3GPP
13 – 17 May 2002	CN4 #14	Europe,	Ericsson
5 – 7 June 2002	TSG-CN #16	Marco Island, Florida, USA	Motorola
29 July – 2 August 2002	CN4 #15	Helsinki, FINLAND	Sonera, Nokia, Elisa Communication, Ficora
4 – 6 September 2002	TSG-CN #17	France	Alcatel
23 – 27 September 2002	CN4 #16	USA west coast, San Diego, USA?	North American Friends of 3GPP
11 – 15 November 2002	CN4 #17	Penang, MALAYSIA	Japanese Friends of 3GPP
4 – 6 December 2002	TSG-CN #18	New Orleans, Louisiana, USA	North American Friends of 3GPP

Please note that due to the workload additional Ad Hoc Meetings can be planned on a short notice.

11 Output of CN4#11

11.1 Change Requests

Tdoc #	Title	Source
N4-011259	CR 24.135-002r1 (R99) on Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC
N4-011260	CR 24.135-003r1 (Rel-4) on Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC
N4-011262	CR 29.002-344 (Rel-4) on Correction of the priority for “SRI for LCS”	NTC
N4-011265	CR 24.080-013 (R99) on Message type: completion of alignment to 24.007 and 24.008	Ericsson
N4-011266	CR 24.080-014 (Rel-4) on Message type: completion of alignment to 24.007 and 24.008	Ericsson
N4-011267	CR 23.009-059 (R99) on E-interface protocol during the supervision phase	Siemens
N4-011268	CR 23.009-060 (Rel-4) on E-interface protocol during the supervision phase	Siemens
N4-011272	CR 29.002-348 (R99) on ASN.1 correction	Siemens
N4-011273	CR 29.002-349 (Rel-4) on ASN.1 correction	Siemens
N4-011278	CR 29.232-016 (Rel-4) on Corrections to ABNF coding of PackageIDs	Nokia
N4-011279	CR 23.153-028 (Rel-4) on Removal of "No Data" SDUs	Nokia
N4-011285	CR 29.002-316 (Rel-4) on Corrections on the SDL diagrams for LCS	Fujitsu
N4-011304	CR 29.232-017 (Rel-4) on Correction of BICC packages	Ericsson
N4-011316	CR 29.010-043 (R99) on Removal of deleted MAP operations	Ericsson
N4-011317	CR 29.010-044 (Rel-4) on Removal of deleted MAP operations	Ericsson
N4-011327	CR 23.912-003 (R99) on Update Location in Supercharger following receipt of Reset message from HLR	Nortel Networks
N4-011328	CR 23.912-004 (Rel-4) on Update Location in Supercharger following receipt of Reset message from HLR	Nortel Networks
N4-011361	CR 23.205-016r1 (Rel-4).on Correction for Release of Network Bearer	Ericsson
N4-011363	CR 29.232-020r1 (Rel-4) on Correction of 3GUP package sub-list type	Ericsson
N4-011365	CR 23.009-054 (R99) on Multicall bearer selection	Nokia
N4-011366	CR 23.009-055 (Rel-4) on Multicall bearer selection	Nokia
N4-011369	CR 23.153-029 (Rel-4) on Clarification for Codec Modification in case of SS/IN interworking	Siemens
N4-011381	CR 29.002-355r1 (Rel-5) on LCS Capability Handling for GPRS MS’s	Ericsson
N4-011388	CR 23.205-013r1 (Rel-5) on Management locking of MG	Ericsson
N4-011393	CR 23.009-363 (R99) on E-interface protocol during the supervision phase	Alcatel
N4-011394	CR 23.009-364 (Rel-4) on E-interface protocol during the supervision phase	Alcatel
N4-011404	CR 23.009-056 (R99) on Usage of location Reporting for Relocation and Inter-system Handover	Ericsson/CN1
N4-011405	CR 23.009-057 (Rel-4) on Usage of location Reporting for Relocation and Inter-system Handover	Ericsson/CN1

N4-011412	CR 23.018-089r2 (R99) on Corrections in the ATI mechanism description	France Telecom
N4-011413	CR 23.018-090r2 (Rel-4) on Corrections in the ATI mechanism description	France Telecom
N4-011414	CR 23.018-091r2 (Rel-5) on Corrections in the ATI mechanism description	France Telecom
N4-011420	CR 29.010-042r1 (R99) on Alignment of 29.010 to 25.413 for LCS	Ericsson
N4-011423	CR 29.002-360r1 (Rel-4) on Aligning the security header elements with TS33.200	Hutchison 3G
N4-011427	CR 23.205-014r2 (Rel-4).on New timer to support long paging in bearer independent network	Ericsson
N4-011428	CR 29.060-275 (R99) on Clarification on the handling of protocol configuration options IE	Lucent
N4-011429	CR 29.060-282 (Rel-5) on Clarification on IMSI format (Unused fields)	NEC
N4-011432	CR 29.002-353r1 (R99) on Minimum MAP application context for G2G inter-MSC handover	Ericsson
N4-011433	CR 29.002-354r1 (REL-4) on Minimum MAP application context for G2G inter-MSC handover	Ericsson
N4-011437	CR 29.002-349r1 (Rel-4) on Handling the MNRR flag in the HLR & SMS-GMSC	Vodafone
N4-011438	CR 29.002-358r2 (R99) on Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks
N4-011439	CR 29.002-359r2 (Rel-4) on Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks
N4-011444	CR 23.009-062 (R99) on GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	CN1
N4-011445	CR 23.009-063 (R99) on GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	CN1
N4-011447	CR 29.232-019r2 (Rel-5) on Management locking of MG	Ericsson
N4-011448	CR 23.009-052r3 (Rel-5) on Introduction of Intra Domain Connection of RAN	CN1
N4-011450	CR 23.009-061r4 (Rel-5) on Reflection of RRC changes in 44.018 to 23.009	Nokia

11.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN4 #10 meeting:

TDOC N4-00xxxx	Subject	To	Cc	Attachment	Sent
N4-011383	Liaison Statement reply on Subscriber and Equipment Trace (TS 32.108)	SA2	CN1, SA1		2nd Dec.
N4-011406	Liaison Statement on Cx User Profile	SA4			2nd Dec.
N4-011422	LS to SA2 on Supported LCS Capability Set	SA3 LI			2nd Dec.
N4-011449	Proposed LS to SA3 on MAP sec error handling	SA3	SA2, CN1		2nd Dec.

11.3 TS/TRs

Tdoc #	Tdoc Title
N4-011418	TS 29.228 IP Multimedia Subsystem Cx interface; signalling flows and message contents
N4-011419	TS 29.229 Cx Interface based on the Diameter protocol; Protocol details
N4-011451	TR29.903 SUA Feasibility Study

11.4 WIs

Tdoc #	Tdoc Title
N4-011237	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-011241	Agenda	Chairman	Revised N4-011373
N4-011242	Tdoc allocation	Chairman	Approved
N4-011243	List of agreed output documents	Chairman	Approved
N4-011244	Work Plan	Chairman	Revised N4-011380
N4-011245	SUA ad hoc	MCC	Noted
N4-011246	TSG CN WG4 #10 meeting report, Brighton	MCC	Approved
N4-011247	Introduction of CAMEL Phase 4	Vodafone Group Plc	Noted
N4-011248	Introduction of CAMEL Phase 4	Vodafone Group Plc	Noted
N4-011249	Introduction of CAMEL Phase 4	Vodafone Group Plc	Noted
N4-011250	Incomplete MSISDN parameter description	PTC	Postponed
N4-011251	Incomplete MSISDN parameter description in the 8.3.1 chapter	PTC	Postponed
N4-011252	Incomplete MSISDN parameter description in the 8.3.1 chapter	PTC	Postponed
N4-011253	Incomplete MSISDN parameter description in the 8.3.1 chapter	PTC	Postponed
N4-011254	Handling of CUG calls in non-supporting networks	Vodafone	Postponed to CN4#12
N4-011255	Handling of CUG calls in non-supporting networks	Vodafone	Postponed to CN4#12
N4-011256	Handling of CUG calls in non-supporting networks	Vodafone	Postponed to CN4#12
N4-011257	Add APN.OI sub-field to the APN in PDP context IE	NEC	Withdrawn
N4-011258	Clarification on IMSI format (Unused fields)	NEC	Revised N4-011429
N4-011259	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC	Approved
N4-011260	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC	Approved
N4-011261	Create PDP context request for an existing PDP context	NEC	Noted
N4-011262	Correction of the priority for “SRI for LCS”	NTC	Agreed
N4-011263	Correction of the definition for “Supported LCS Capability Set”	NTC	
N4-011264	Introducing the enhanced user privacy to the LCS REL-5	NTC	Noted
N4-011265	Message type: completion of alignment to 24.007 and 24.008	Siemens	Agreed
N4-011266	Message type: completion of alignment to 24.007 and 24.008	Siemens	Agreed
N4-011267	E-interface protocol during the supervision phase	Siemens	Agreed
N4-011268	E-interface protocol during the supervision phase	Siemens	Agreed
N4-011269	Indication of deletion of CSI in Notify Subscriber Data Change	Siemens	Withdrawn
N4-011270	Addition of RAB ID to Prepare Handover procedure	Siemens	Rejected
N4-011271	Addition of RAB ID to Prepare Handover procedure	Siemens	Rejected
N4-011272	ASN.1 correction	Siemens	Agreed
N4-011273	ASN.1 correction	Siemens	Agreed
N4-011274	Handling the MNRR flag in the HLR & SMS-GMSC	Vodafone	Revised N4-011353
N4-011275	Handling the MNRR flag in the HLR & SMS-GMSC	Vodafone	Revised N4-011293
N4-011276	Handling the MNRR flag in the HLR & SMS-GMSC	Vodafone	Revised N4-011293
N4-011277	Termination ID's naming convention	Nokia	Noted
N4-011278	Corrections to ABNF coding of PackageIDs	Nokia	Agreed
N4-011279	Removal of "No Data" SDUs	Nokia	Agreed
N4-011280	Clarification on the handling of protocol configuration options IE	Lucent Technologies	Revised N4-0111428
N4-011281	About Recovery mechanism in GTP	Lucent Technologies	Postponed to CN4#12
N4-011282	Clarification on create PDP context for existing PDP context	Lucent Technologies	Rejected
N4-011283	Discussion paper on the handling of the PCO IE	Lucent Technologies	Noted
N4-011284	Enhancements to subscriber information reporting in the PS domain	Vodafone	Revised N4-011410
N4-011285	Corrections on the SDL diagrams for LCS	Fujitsu	Agreed
N4-011286	Clarification on the use of the Teardown indicator IE	Fujitsu	Rejected
N4-011287	Clarification on the use of the Teardown indicator IE	Fujitsu	Rejected
N4-011288	Using IPv6 in Core network and maintaining compatibility to IPv4 GSNs	Nokia	Noted

N4-011289	Addition of multimedia information elements	Nokia, Ericsson	Revised N4-011372
N4-011290	Authentication	Nokia	Withdrawn
N4-011291	Registration	Nokia	Withdrawn
N4-011292	Transferring MS classmark information to the gsmSCF domain	Vodafone	Postponed to CN4#12
N4-011293	Handling the MNRR flag in the HLR & SMS-GMSC (rev of 275)	Vodafone	Rejected
N4-011294	Handling the MNRR flag in the HLR & SMS-GMSC (rev of 276)	Vodafone	Revised N4-011437
N4-011295	TS 29.228 IP Multimedia Subsystem Cx interface ; signalling flows and message contents	L.M. Ericsson and Siemens	Noted
N4-011296	TS 29.229 Cx Interface based on the Diameter protocol; Protocol details	L.M. Ericsson	Noted
N4-011297	Transport protocol for Diameter in the Cx interface	L.M. Ericsson	Principles agreed
N4-011298	Reference to 33.210 for the protection of Diameter messages	L.M. Ericsson	Principles agreed
N4-011299	Introduction of authentication flag, matching of public/private id.	L.M. Ericsson	Noted
N4-011300	Capabilities for the selection of S-CSCF	L.M. Ericsson, Nokia	Noted
N4-011301	Logical model for user profile downloaded over Cx interface	L.M. Ericsson and Nokia	Principles agreed
N4-011302	Comments on TR 29.903 V 0.3.0, Feasibility Study on SS7 signalling transport in the core network with SCCP-User Adaptation Layer (SUA)	L.M. Ericsson	Noted
N4-011303	Relaying of Send Identification with IuFlex	L.M. Ericsson	Withdrawn
N4-011304	Correction of BICC packages	L.M. Ericsson	Agreed
N4-011305	Correction of BICC packages	L.M. Ericsson	Withdrawn
N4-011306	Management locking of MG	L.M. Ericsson	Revised N4-011388
N4-011307	Management locking of MG	L.M. Ericsson	Revised N4-011389
N4-011308	Alignment of 29.010 to 25.413 for LCS	L.M. Ericsson	Revised N4-011420
N4-011309	Introduction of new timer to support long paging in bearer independent network	L.M. Ericsson	Noted
N4-011310	New timer to support long paging in bearer independent network	L.M. Ericsson	Revised N4-011359
N4-011311	New timer to support long paging in bearer independent network	L.M. Ericsson	Revised N4-011360
N4-011312	Correction for Release of Network Bearer	L.M. Ericsson	Revised N4-011361
N4-011313	Correction for Release of Network Bearer	L.M. Ericsson	Revised N4-011362
N4-011314	Minimum MAP application context for G2G inter-MSC handover	L.M. Ericsson	Revised N4-011432
N4-011315	Minimum MAP application context for G2G inter-MSC handover	L.M. Ericsson	Revised N4-011433
N4-011316	Removal of deleted MAP operations	L.M. Ericsson	Agreed
N4-011317	Removal of deleted MAP operations	L.M. Ericsson	Agreed
N4-011318	Fallback from UDI multimedia and changing between speech and multimedia	L.M. Ericsson	Noted
N4-011319	LCS Capability Handling for GPRS MS's	L.M. Ericsson	Revised N4-011381
N4-011320	PDP Context handling at Inter SGSN RA Update	L.M. Ericsson	Revised N4-011431
N4-011321	Cause Code mapping between 29.060 and 24.008	L.M. Ericsson	Postponed to CN#12
N4-011322	Remove hanging context in GGSN	L.M. Ericsson	Noted
N4-011323	Clarify QoS handling during ISD	L.M. Ericsson	Withdrawn
N4-011324	Clarify QoS handling during ISD	L.M. Ericsson	Withdrawn
N4-011325	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Revised N4-011370
N4-011326	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Revised N4-011371
N4-011327	Update Location in Supercharger following receipt of Reset message from HLR	Nortel Networks	Agreed
N4-011328	Update Location in Supercharger following receipt of Reset message from HLR	Nortel Networks	Agreed
N4-011329	LS on external Network Assisted Cell Change	Geran2	Noted
N4-011330	Liaison Statement response on 'LS On the handling of the Protocol Configuration Options IE'	CN1	Noted
N4-011331	WID: AMR-WB Speech Service – Core Network Aspects	RAN3 (to)	Noted
N4-011332	Answer LS on "Stop reporting type"	RAN3 (cc)	Noted
N4-011333	Response to "Answer to LS on adding a RANAP cause to the Relocation Cancel Request" (S2-012457)	RAN3 (cc)	Noted
N4-011334	Reply to LS "Update of Iu-Flex status"	RAN3 (cc)	Noted
N4-011335	LS "PDP Context handling at Inter SGSN RA Update"	SA2 (to)	Noted

N4-011336	LS response on “APN-OI needed in the SGSN for charging purposes”	SA2 (cc)	Noted
N4-011337	LS “Stop reporting type”	SA2 (to)	
N4-011338	Reply to Liaison Statement on Usage of Private ID	SA2 (cc)	Noted
N4-011339	Reply LS on “Selection of S-CSCF by I-CSCF based on capability requirements”	SA2 (to)	Noted
N4-011340	Reply LS on the WID: AMR-WB Speech Service – Core Network Aspects	SA2 (to)	Noted
N4-011341	LS on Optimization of the Registration Information Flows	SA2 (to)	Noted
N4-011342	Response to the LS S2-012896 from SA3 on Security Aspects related to the IMS Authentication.	SA2 (cc)	Noted
N4-011343	Response to SA2 LS on Cell ID in SIP messages	SA3 (cc)	Noted
N4-011344	Response to LS from CN1 (N1-011430/S3-010452) Liaison Statement on Usage of Private ID	SA3 (cc)	Noted
N4-011345	Response to LS from CN4 (N4-010969) on signalling for user authentication	SA3(to)	Noted
N4-011346	Response to LS S2-012456 from SA2 on Security aspects for IMS related to Authentication	SA3 (cc)	Noted
N4-011347	Response to LS S2-012311, LS CN1-011332 on the use of Network Domain Security for protection of SIP signalling messages.	SA3 (cc)	Noted
N4-011348	LS on MAPsec error handling	SA3 (to)	Noted
N4-011349	LS to GSM-A TWG/SERG “regarding User Profile”	GUP (cc)	Noted
N4-011350	Correction of 3GUP package sub-list type	L.M. Ericsson	Revised N4-011363
N4-011351	Correction of 3GUP package sub-list type	L.M. Ericsson	Revised N4-011364
N4-011352	SMS Charging and fraud prevention	L.M. Ericsson	Withdrawn
N4-011353	Handling the MNRR flag in the HLR & SMS-GMSC	Vodafone	Noted
N4-011354	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel, Motorola	Revised N4-011415
N4-011355	Clarification on SGSN Context Ack msg.	Motorola	Rejected
N4-011356	Clarification on SGSN Context Ack msg.	Motorola	Rejected
N4-011357	Clarification on SGSN Context Ack msg.	Motorola	Rejected
N4-011358	Clarification on SGSN Context Ack msg.	Motorola	Postponed
N4-011359	New timer to support long paging in bearer independent network	L.M. Ericsson	Revised N4-011427
N4-011360	New timer to support long paging in bearer independent network	L.M. Ericsson	Withdrawn
N4-011361	Correction for Release of Network Bearer	L.M. Ericsson	Agreed
N4-011362	Correction for Release of Network Bearer	L.M. Ericsson	Withdrawn
N4-011363	Correction of 3GUP package sub-list type	L.M. Ericsson	Agreed
N4-011364	Correction of 3GUP package sub-list type	L.M. Ericsson	Withdrawn
N4-011365	Multicall bearer selection	Nokia	Agreed
N4-011366	Multicall bearer selection	Nokia	Agreed
N4-011367	Bearer selection criteria of calls in a multicall	Nokia	Noted
N4-011368	Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Rejected
N4-011369	Clarification for Codec Modification in case of SS/IN interworking	Siemens	Agreed
N4-011370	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Revised N4-011438
N4-011371	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Revised N4-011439
N4-011372	Addition of multimedia information elements	Nokia, Ericsson	Revised N4-011382
N4-011373	Agenda	Chairman	Approved
N4-011374	Aligning the security header elements with TS33.200	H3g	Revised N4-011423
N4-011375	Collective CR on 23.016	Siemens/CN2	Noted
N4-011376	Optimization of registration flows	Ericsson	Principles agreed
N4-011377	Liaison Statement reply on Subscriber and Equipment Trace (TS 32.108)	SA5 SWG_B (to)	Noted
N4-011378	Liaison Statement on 3GPP Generic User Profile Stage 1	SA1 (cc)	Noted
N4-011379	Response to: Liaison Statement on Usage of Private ID	SA1 (cc)	Noted
N4-011380	Work Plan (version 22nd Nov)	Chairman	Agreed
N4-011381	LCS Capability Handling for GPRS MS’s	L.M. Ericsson	Agreed
N4-011382	Addition of multimedia information elements	Nokia, Ericsson	Postponed Revised version to CN4#12
N4-011383	LS to Sa5	CN4	Approved
N4-011384	Liaison Statement on AMR - Wideband Requirements	SA1	Noted
N4-011385	Corrections in the ATI mechanism description	France Telecom	Revised N4-011407
N4-011386	Corrections in the ATI mechanism description	France Telecom	Revised N4-011408
N4-011387	Corrections in the ATI mechanism description	France Telecom	Revised N4-011409

N4-011388	Management locking of MG	L.M. Ericsson	Agreed
N4-011389	Management locking of MG	L.M. Ericsson	Revised N4-011447
N4-011390	TR29.903 SUA Feasibility Study CN4 ad hoc results	Cisco, Nokia, Ericsson, Nortel	Noted
N4-011391	Syntax error on notificationToCSE in the ATM result	Alcatel	Rejected
N4-011392	Syntax error on notificationToCSE in the ATM result	Alcatel	Rejected
N4-011393	Syntax error in the ATM result and ATSI result	Alcatel	Agreed
N4-011394	Syntax error in the ATM result and ATSI result	Alcatel	Agreed
N4-011395	Clarification: use of SS-Code in ATM, ATSI and NSDC	Siemens	Noted
N4-011396	Specification at Si Interface	Siemens	Noted
N4-011397	Request of multiple SS-Code changes in the ATM request	Alcatel	Noted
N4-011398	Request of multiple SS-Code changes in the ATM request	Alcatel	Postponed
N4-011399	Clarification on Any Time Subscription Interrogation result in case of multiple SS-Code	Alcatel	Noted
N4-011400	Clarification on Any Time Subscription Interrogation result in case of multiple SS-Code	Alcatel	Postponed
N4-011401	Sending of Note Subscriber Data Modified operation relative to consistent data changes	Alcatel	Noted
N4-011402	Sending of Note Subscriber Data Modified operation relative to consistent data changes	Alcatel	Postponed
N4-011403	Collective CAMEL Phase 4 CR	Ericsson	Noted
N4-011404	Usage of location Reporting for Relocation and Inter-system Handover	Ericsson/CN1	Agreed
N4-011405	Usage of location Reporting for Relocation and Inter-system Handover	Ericsson/CN1	Agreed
N4-011406	LS to GUP (Seppo Kauntola)	CN4	Approved
N4-011407	Corrections in the ATI mechanism description	France Telecom	Revised N4-011412
N4-011408	Corrections in the ATI mechanism description	France Telecom	Revised N4-011413
N4-011409	Corrections in the ATI mechanism description	France Telecom	Revised N4-011414
N4-011410	Enhancements to subscriber information reporting in the PS domain	Vodafone	Revised N4-011424
N4-011411	Collective CRs against Camel4	Alcatel	Noted
N4-011412	Corrections in the ATI mechanism description	France Telecom	Agreed
N4-011413	Corrections in the ATI mechanism description	France Telecom	Agreed
N4-011414	Corrections in the ATI mechanism description	France Telecom	Agreed
N4-011415	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel, Motorola	Revised N4-011451
N4-011416	Liaison Statement On “Response to RANAP Indication Of Modify Support Of Link Characteristics”	RAN3 (to)	Noted
N4-011417	Implicitly registered IMPU(s)	SA3 (to)	Noted
N4-011418	TS 29.228 IP Multimedia Subsystem Cx interface ; signalling flows and message contents	L.M. Ericsson and Siemens	Approved
N4-011419	TS 29.229 Cx Interface based on the Diameter protocol; Protocol details	L.M. Ericsson	Approved
N4-011420	Alignment of 29.010 to 25.413 for LCS	L.M. Ericsson	Agreed
N4-011421	LS (S3z010121) on MAPsec error handling from SA3	CN4	Revised to N4-011426
N4-011422	LS Pompeo	CN4	Approved
N4-011423	Aligning the security header elements with TS33.200	H3g	Agreed
N4-011424	Enhancements to subscriber information reporting in the PS domain	Vodafone	Rejected
N4-011425	Aligning the security header texts in TS 29.002 and TS 33.200		Noted
N4-011426	LS (S3z010121) on MAPsec error handling from SA3	CN4	Revised to N4-011449
N4-011427	New timer to support long paging in bearer independent network	L.M. Ericsson	Agreed
N4-011428	Clarification on the handling of protocol configuration options IE	Lucent Technologies	Agreed
N4-011429	Clarification on IMSI format (Unused fields)	NEC	Agreed
N4-011430	Clarification on create PDP context for existing PDP context	Lucent Technologies	Rejected
N4-011431	PDP Context handling at Inter SGSN RA Update	L.M. Ericsson	Postponed to CN4#12
N4-011432	Minimum MAP application context for G2G inter-MSC handover	L.M. Ericsson	Agreed
N4-011433	Minimum MAP application context for G2G inter-MSC handover	L.M. Ericsson	Agreed
N4-011434	Future meetings	MCC	Noted
N4-011435	Clarification on the use of the Teardown indicator IE	Fujitsu, Motorola	Rejected
N4-011436	Clarification on the use of the Teardown indicator IE	Fujitsu, Motorola	Rejected
N4-011437	Handling the MNRR flag in the HLR & SMS-GMSC (rev of 276)	Vodafone	Agreed
N4-011438	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Agreed
N4-011439	Alignment of parameter lengths with those prescribed in 08.08	Nortel Networks	Agreed
N4-011440	Codec info change from 1370	Nortel Networks	Postponed to CN4#12
N4-011441	Codec info change from 1371	Nortel Networks	Postponed to

			CN4#12
N4-011442	Liaison Statement on MSISDN Address resolution for MMS using MAP operations	T2	Noted
N4-011443	LS on the addition of the H.324M codec to TS 26.103	CN4	Withdrawn
N4-011444	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	Nokia	Agreed
N4-011445	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	Nokia	Agreed
N4-011446	Reflection of RRC changes in 44.018 to 23.009	Nokia	Agreed
N4-011447	Management locking of MG	L.M. Ericsson	Agreed
N4-011448	Introduction of Intra Domain Connection of RAN	CN1	Agreed
N4-011449	LS (S3z010121) on MAPsec error handling from SA3	CN4	Agreed
N4-011450	Reflection of RRC changes in 44.018 to 23.009	Nokia	Agreed
N4-011451	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel, Motorola	Approved

Annex C: Make calls for IPRs

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective** Organizational Partners **of Essential IPRs they become aware of**.

The members take note that they are hereby 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 the Technical Specification Group.
- to notify the Chairman, or the Director-General 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.

Annex D: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG4 members should be aware of.

2.2 3GPP email lists:

To receive information about CN4 issues, all delegates and other interested parties MUST register for email list **3GPP_TSG_CN_WG4**. 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_WG4 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 *`

2.3 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_WG4*** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

`search * in 3GPP_TSG_CN_WG4 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 CN4, go to:
http://list.3gpp.org/archives/3gpp_tsg_cn_wg4.html

2.4 Meeting calendar:

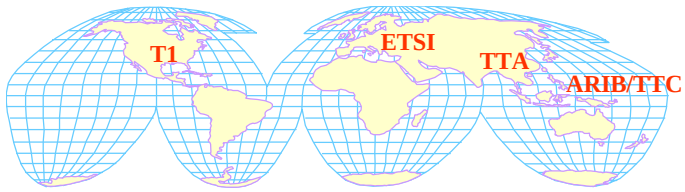
The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: http://www.3gpp.org/Meetings.htm

2.5 Documents on the server:

All documents submitted to CN4 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/WG4_protocollars/
e.g. the documents for CN4 meeting #4 can be found at:
ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/tsgN4_04/Docs/

ANNEX E: Document history

Document History	
2nd December 2001	DRAFT v.1.0.0 dispatched to the TSG_CN4 mail exploder for comments. Comments to be addressed to: **Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support** MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.fr A deadline of a week was given to the CN4 delegates for e-mail comments on the draft report. **E-mail comments back by 14th December 2001**
16th Decemebr 2001	Draft report v2.0.0 placed on the FTP serve
28th January 2002	Version 2.0.0 approved at CN4#11 Meeting in Cancun, MEXICO – Made version 3.0.0. Placed to server as the official meeting report.



Third Generation Partnership Project

Draft Meeting REPORT v3.0.0
3GPP TSG_CN_WG4#10

Brighton, UK
15th October – 19th October 2001

Hosted by Lucent, BT, Vodafone, Hutchison 3G, Orange

Chairman: **Mr. Peter Schmitt, Siemens (CN4 Vice Chairman)**

MCC Support: **Mr. Kimmo Kymäläinen, ETSI MCC.**

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1 Opening of the meeting & Approval of Agenda

Mr. Peter Schmitt, CN4 vice chairman opened the meeting. Mr. David C. Smith gave a welcome introduction on behalf of host companies. Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC).

1.1 Make calls for IPRs

The document is included in Annex C.

The agenda was presented and **approved** (N4-011021rev2).

2 Document Allocation

The document allocation (N4-011022-rev2) was **approved**

3 Meeting Reports

3.1 Approval of the report of CN4 #9, Dresden, Germany

The Sophia Antipolis meeting report (N4-011024) was **approved**. The document was raised to version 3.0.0. and will be uploaded to the server.

3.2 Approval of the report of CN4 #9bis, Helsinki, Finland

The Sophia Antipolis meeting report (N4-011025) was **approved**. The document was raised to version 3.0.0. and will be uploaded to the server.

3.3 Report back from joint ad hoc on GUP

The Sophia Antipolis meeting report (N4-011045) was **noted**.

3.4 Report back from TSG CN#13 & TSG SA#13

The Sophia Antipolis meeting report (N4-011033) was **noted**.

- France Telecom: Does CN4 work with IMS Number portability?
  - Lucent:CN4 can't do anything before it will get requirements from SA2.

4 Liaison Statements

Document: **N4-011121**
Title: Flows related to Authenticated Registrations and Re-Registrations
Source: CN1
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011122**
Title: Amendments to CR on 23.153, for UMTS_AMR_2
Source: CN1
Presented:
Discussion:

- Lucent: LS related to CRs which approved at CN plenary #13 (NP-010532 & NP-010533).

Decision: **Noted**

Document: **N4-011123**
Title: Response to LS "On the use of Network Domain Security for protection of SIP signalling messages“ (N1-011041 or S3-010403)
Source: CN1
Presented: Mr. Michael Young, Motorola

Discussion: **Noted**

Document: **N4-011129**
Title: LS S3-010403 on the use of Network Domain Security for protection of SIP signalling messages from WG3
Source: SA2
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011124**
Title: Response to Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"
Source: CN1
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011125**
Title: LS on Removal of SIWF from R99 and onward
Source: CN
Presented: Mr. Peter Schmitt, Chairman
Discussion:

- Siemens: Do we need to removed SIWF from R99 and onward or is it enough just removed references?
    - Lucent: It doesn't belong only references.
    - Chairman: We do need to do it only for Rel-5 and beyond.

Decision: **Noted**

Document: **N4-011126**
Title: Response to LS (G2-010196) on Inter-BSC/RAN Network Assisted Cell Change
Source: RAN2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011127**
Title: Response LS on inter-BSC/RAN Network Assisted Cell Change
Source: RAN3
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011128**
Title: Reply to SA2 LS on Cell ID in SIP messages
Source: SA1
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011129**
Title: The use of Network Domain Security for protection of SIP signalling messages from WG3
Source: SA2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011130**
Title: User Plane for IMS to PSTN Interworking
Source: SA2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011132**
Title: Response to LS R3-012081
Source: SA2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011133**
Title: LS “Stop reporting type”
Source: SA2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011134**
Title: Security aspects of the 3GPP push service

Source: SA2
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Noted**

Document: **N4-011136**
Title: Security aspects for IMS related to Authentication
Source: SA2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011137**
Title: Answer to LS on adding a RANAP cause to the Relocation Cancel Request
Source: SA2
Presented: Mr. Michael Young, Motorola
Discussion:

Decision: **Noted**

Document: **N4-011138**
Title: Liaison Statement response on "Inter-BSC/RAN Network Assisted Cell Change"
Source: SA2
Presented: Ms. Elena Garcia-Mendive, Ericsson

Discussion:

Decision: **Noted**

Document: **N4-011139**
Title: LS in reply to SA2 Liaison "WI on the End-to-End QoS Architecture for Release 5"
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011140**
Title: Reply to LS on basic and advanced services examples (S1-010271/ S5-010302)
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011141**
Title: “Unique GGSN address required for charging purposes”
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011142**
Title: Subscription Management
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011146**
Title: “APN-OI needed in the SGSN for charging purposes”
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011147**
Title: "Access Point Name" usage
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011148**
Title: SyncML Requesting DevMan Update
Source: T2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011149**
Title: Response to T2-010617
Source: T2

Presented:
Discussion:

Decision: **Noted**

Document: **N4-011150**
Title: Response to SA5 on Multiple Aspects of Device Management
Source: T2
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011181**
Title: XML and XSD assistance; OID repository and ASN.1 module database
Source: ITU-T Study Group 7
Presented: Francois Dronne, France Telecom
Discussion:

Decision: **Noted**

5 Work Item Management

6 Release 5

6.1 HSS – CSCF Cx interface

Document: **N4-011063**
CR:
Title: 3GPP TS 29.228 v0.3.0
Source: Editor
Presented: Mr. Balazs Czoma, Siemens
Discussion:

- Nokia: What is the status of authentication flag?
  - Editor: It isn't decided yet and it's not stabile.
- Nokia: We need to separate contribution to bring authentication flag in. We didn't have any discussion in CN4 about this.
- Nokia proposed to remove auth. flag from draft specification.
  - Proposal agreed by editor
- Authentication flag: A one possible document to introduce it is 3GPP TS 29.229???
- Editor: TS is more than 50% ready!

Decision: **Revised N4-011187**

Document: **N4-011187**
CR:
Title: 3GPP TS 29.228 v0.3.0
Source: Editor
Presented: Mr. Balazs Czoma, Siemens
Discussion:

Decision: **Principals agreed**

Document: **N4-011064**
CR:
Title: 3GPP TS 29.229 v0.3.0
Source: Editor
Presented: Mr. Miguel Pallares, Ericsson
Discussion:

- When ready for 1.0.0? 60 % have to be reached; Currently only 50% of information is available.
- E164 have to be transferred in a separate field with a special header.

Decision: **Principles agreed**

Document: **N4-011065**
CR:
Title: S-CSCF selection related information
Source: Ericsson, Siemens
Presented: Mr. Miguel Pallares, Ericsson
Discussion:

- Siemens proposed that the document will be a draft discussion paper of introducing the parameters of S-CSCF.
  - Only necessary if S-CSCF have different capabilities.
  - The document incorporated in specifications 3GPP TS 29.228 and 29.229.
- France Telecom: Would it be possible that for all S-CSCF to have same capabilities?
- The item FFS needs detailed analyses.
- *principles agreed* but it needs further study!
- LS to SA2, N4-011235

Decision: **Principles Agreed**

Document: **N4-011066**
CR:
Title: Diameter commands for user authentication in the Cx interface
Source: Ericsson
Presented: Mr. Miguel Pallares, Ericsson
Discussion:

- The first proposal for 3GPP TS 29.228:
  - To replace content of Annex A4.1 of 29.228 either with 5.1 or with 5.2 as decided during the meeting.
  - To adopt the approach described in 5.1, combined LUR/LUA – MAR/MAA.
    - Motorola was worried e.g. the effects for terminals.
- The second proposal for 3GPP TS 29.229:
  - To replace the content of 6.1.9 and 6.1.10 with 4.1 and 4.2, respectively.
- CN4 agreed the principles
  - Annex A4.1 will be replaced with 5.1

Decision: **Principles Agreed**

Document: **N4-011067**
CR:
Title: Definition of IMS user data in HSS
Source: Ericsson, Siemens
Presented: Mr. Balazs Czoma, Siemens
Discussion:

- Proposal: To accept definition of groups and logical structure of IMS HSS data as a basis for further work which shall include the complete definition of data for the groups and to accommodate the information in TS 23.008; Organization of subscriber data, Release 5 or a corresponding new standard.
- For the definition of IMS user data in HSS in 23.008
  - Siemens: It's maybe better to get a new specification.
  - 29.228 & 29.229 editors: It's better to add this information for 23.008
- Logical structure of user data in HSS is not clear yet. Nokia has a different view than Ericsson and Siemens.
- More study needed.
- CN4 couldn't agree principles.

Decision: **Noted**

Document: **N4-011068**
CR:

Title: Diameter commands for user authentication in the Cx interface
Source: Ericsson
Presented: Mr. Miguel Pallares, Ericsson
Discussion:

- Siemens reminded the delegates that it's very important for the progress of IMS related work in 3GPP CN4 that all the interested companies support these activities directly or through their delegates in IETF.

Decision: **Noted**

Document: **N4-011166**
CR:
Title: Subscription Profile Updating
Source: Nokia
Presented: Mr. Jaakko Rajaniemi, Nokia
Discussion:

- France Telecom: Is there any problems in subscription downloading from HSS?
  - Nokia: That's how stage 2 has described it. We don't see any problems
- Also TS 29.228 have to be updated

Decision: **Principles agreed**

Document: **N4-011120**
CR:
Title: Clarifications of aspects of Multimedia Capabilities [ID 1281]
Source: CN 1
Presented: Mr. Nigel Berry, Lucent
Discussion:

- WI 1285 removed already at CN#13

Decision: **Noted**

Document: **N4-011142**
CR:
Title: LS on Subscription Management
Source: SA 5
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Noted**

Document: **N4-011151**
CR:
Title: Liaison Statement on Usage of Private ID
Source: CN 1
Presented: Mr. Miguel Pallares, Ericsson
Discussion:

- CN1 propose to CN4:
  - To verify whether it is acceptable to transport the private user identifier in the Authentication header value of the REGISTER message instead of the From header value.
    - CN4 needs more study for this proposal. It isn't clear if CN4 needs this information in I-CSCF.
  - To confirm that Private Identity is required to be available in the S-SCSF before the UE has been authenticated.
    - CN4 agreed
- Reply LS to CN1 (N4-011206) cc: SA1, SA2, SA3, SA5

Decision: **Noted**

Document: **N4-011061**
CR:
Title: IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface WID

Source: Lucent
Presented: Mr. Nigel Berry
Discussion:

- Dependencies on IEFT shall be mentioned.
- IEFT draft will be named as xxxx.txt
- Editors have to be revised

Decision: **Revised N4-011207**

Document: **N4-011180**
CR:
Title: Use of UML to model the User Profile in Cx
Source: Nokia
Presented: Mr. Jaakko Rajaniemi
Discussion:

- Proposals:
  - UML is used for modelling the Subscriber Profile in Cx. The UML class diagram is manually mapped on the abstract syntax notation used.
  - The mode of operation in the CN4 working group is such that the UML class diagram is defined first after which the abstract syntax definition is defined.
  - The UML class diagram is included in the TS 23.016 and the abstract syntax definition of the Subscriber Profile is included in the TS 29.228 in the main body.
- Version control have to be guaranteed.
- UML and ASN.1 shall be in line.
- TS 29.228 will contain the abstract syntax description.
- UML diagram will be inserted in the annex of TS 29.228.
  - Decision will be made later if it has to go in a separate document.
- Description will start with UML diagram. Abstract syntax description will be added later on.

Decision: **Noted**

Document: **N4-011169**
CR:
Title: De-registration
Source: Nokia
Presented: Mr. Jakko Rajaniemi
Discussion:

- Proposals:
  - For the S-CSCF initiated de-registration, two alternatives are presented. The intention is to start discussion on these alternatives and if a clear consensus is reached either one of the solution are further developed for the TS 29.229.
    - Siemens, Ericsson & Nortel supported to include de-registration into the existing Location-Update command.
  - The document also described an issue related to the HSS initiated de-registration. It is proposed that the text in the section 3 is to be included into the TS 29.229.
    - CN4 agreed to include the section intoTS 29.229

Decision: Noted

6.2 IP signalling in the Core Network

Document: **N4-011025**
CR:
Title: TR29.903 SUA Feasibility Study
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Marconi: M3UA and SUA are under working group last call. The last version for M3UA so far is 9. The version 10 might be the publish version.
- Nokia: SUA and M3UA are in same timeframe. It means that they will be ready at the same time.

- M3UA about January 2002
- SUA about November 2001

Decision: **Revised N4-011225**

Document: **N4-011225**
CR:
Title: TR29.903 SUA Feasibility Study
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Ericsson: There are lots of text added which we didn't agree e.g. in section 11
- Ericsson: Where is the text in section 7.2 is coming from?
  - Editor: It's coming from Lucent discussion paper
- Comments section by section by different companies.
  - 3.2 Abbreviations: AMF is not listed
  - 6.3 Ericsson: Have to add: SCCP/M3UA is the only specified/mentioned 3GPP protocol for IP based signalling transport in core network Rel-4.
  - 6.3. References 29.232 and 29.205 have to add
  - 7.1 Ericsson: Comment ENUM in not sufficient. There is a note in Annex which should be here(e.g. 7.1.1)
  - 7.1.1 Ericsson: Signalling relay function should be mentioned
  - 7.1 Ericsson: Route on hostname needs more discussion.
  - 7.2.3 Editorial corrections in text.
  - 7.3.6 Ericsson: All the text linkage to figure is acceptable. The rest Ericsson have check back at home.
  - 10 Ericsson can't agree the text in section 10.
  - 11 Ericsson can't accept the text in section 11 before they checkit at home.
    - Lucent & Nortel: Section 11 is an important point in SUA ad hoc.
  - 12 Ericsson don't agree with this section because the benefits and drawbacks Ericsson provided for M3UA didn't take account.
  - 12 This section hasn't been agreed for all companies.
  - 13 section have to be 13 Open issues
  - 14 This section hasn't been agreed for all companies.
  - Ericsson & Lucent: Annex B should be inside the report in section 7.2.x.

△ **Editor will provide a new version on Monday 22nd October. It will submitted on CN and CN4 mailing list as an input for SUA ad hoc with RAN3.**

- N4-011238 will be the base for all input documents for Cancun.

△ **Delegates have time for comments until Friday 26th October.**

Decision: **Noted**

Document: **N4-011062**
CR:
Title: Comments to the SUA Feasibility Study
Source: Lucent
Presented: Mr. Nigel Berry
Discussion:

- Companies are replied to Lucent questions in document N4-011186.
  - Point code: Assosiation IP-address pointcode always needed?
    - only in SGW AMF
  - NMP has to be enhanced.
  - France Telecom: Do we have a problems with MNP if ENUM is used?
    - No problems if it is only used as AMF.
    - To use it for MNP is for further study.
- The comments will be incorporated in SUA FS

Decision: **Noted**

Document: **N4-011165**
CR:

Title: Interworking between SCCP/M3UA and SUA
Source: Nokia
Presented: Mr. John Loughney, Nokia
Discussion:

- Proposal: Chapter 2 and all its sub-chapters and chapter 3 of this contribution are included in the Study Area of the Technical Specification TR29.903 [2], in a new section 6.7.6, *Interworking of SCCP/M3UA and SUA*.
    - Ericsson needs more examples for figure 3.
- CN4 agreed to introduce chapters 2 & 3 in TR 29.903
    - Ericsson: This type of information should be introduce. The present document doesn't solve all the concerns we have. And messages and contents have to be mentioned.
    - Nokia: The introduction of this chapter solves the issue of Lucent related to IW. (N4-011186)

Decision: **Noted**

Document: **N4-011069**
CR:
Title: Comments on TR 29.903 V 0.2.0, Feasibility Study on SS7 signalling transport in the core network with SCCP-User Adaptation Layer (SUA)
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

- Comments from Ericsson:
- The extensive study and investigation we have done show that the Release 4 signalling transport based on M3UA cater for the 3 GPP network needs for transporting “SS/7 alike protocols” also in Release 5. Compared to only use M3UA+SCCP in Release 5, the introduction of SUA offers only some minor advantages but many disadvantages, so it does not justify the introduction of SUA in Release 5.
    - SCCP+M3UA provides for a more efficient interworking to SS 7 networks.
    - In a node with Release 4 functionality the additions of a new protocol will impose additional cost for training, testing, new equipment (protocol analysator) and signalling gateway functionality
    - Some networks and implementations are using SPC as a means to identify nodes in OA&M. The release 4 “SS 7 protocol” signalling transports cater for need in Release 5.
    - The introduction of SUA as an alternative to M3UA+SCCP will introduce options in implementations, which will sooner or later lead to increased cost.
    - The introduction of SUA as an alternative to M3UA+SCCP will introduce options in the networks, and between networks. In particular the last point is considered very bad.
    - SUA cannot cater for all needs for an operator. #The operator can apply similar principles for network planning, network management and network operation as for the MTP network.
- M3UA allows in some traffic cases the IP network to route the messages.
- In principle the both protocols fulfil the requirements for SCCP user but on the applicability the understanding is quite different.

Decision: **Noted**

6.3 AMR Wideband

Document: **N4-011057**
CR:
Title: WID on AMR Wideband – Core Network aspects
Source: CN4 Chairman
Presented: Mr. Chris Pudney, Vodafone
Discussion:

Decision: **Noted**

Document: **N4-011143**

CR:
Title: Impacts of AMR-WB on TS 23.018
Source: Vodafone
Presented: Mr. Chris Pudney, Vodafone
Discussion:

- TrFO specification describes the similar handling based on BICC.
- Vodafone: It seems that GSM is not covered in 23.153 and it needs more investigations
- Vodafone: The update of 23.018 needs further study.
- Impacts on IMS have to be analysed.
    - SIP session
- Discussion will continue on CN4 mailing list. CRs for 23.018 and 23.153 are expected for the next meeting

Decision: **Noted**

Document: **N4-011164**
CR:
Title: Focusing of AMR-WB WI
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- CN4 agreed that document is helpful.
    - It seems that some items need further study.
- LS to SA4; N4-011196
- LS to SA3 about legal interception; N4-011199
- LS to SA5 on AMR-WB and Charging; N4-011212

Decision: **Noted**

6.4 Network domain security

Document: **N4-011119**
CR:
Title: Introduction of GTP-IC
Source: Hutchison3g
Presented: Mr. Kevan Hobbis
Discussion:

- Proposal:
    - The introduction of GTP-IC does not introduce anything that cannot be done with the current network, except that it is then clearly specified in the standards, with the exception that option in 2.5 would allow separation of GGSN for signalling and bearer, but this would also require a change in SA2 specifications.
    - It is concluded that the introduction of GTP-IC would appear not to meet the security requirements, e.g. it would not be a solution when roaming to a non-IMS enabled network.
    - It is proposed to send a liaison to SA3, copy to SA2 and CN1 detailing these conclusions.

- Lucent & Motorola support the discussion paper
- CN4 agreed to send LS (to: SA3 cc: SA2, CN1) N4-0110205

Decision: **Noted**

6.5 Intra Domain connection of RAN nodes to multiple CN nodes

Document: **N4-011135**
CR:
Title: LS “Update of Iu-Flex status”

Source: SA2
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Noted**

Document: **N4-011058**
CR:
Title: TS 23.236: Intra Domain connection of RAN nodes to multiple CN nodes
Source: CN4 Chairman
Presented:
Discussion:

Decision: **Noted**

Document: **N4-011070**
CR: 23.003-033
Title: Rules for TMSI partitioning
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011071**
CR: 29.060-259
Title: Relay of Identification Request message and SGSN Context Request message
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- The new chapters for IuFlex have to be marked as For IuFlex

Decision: **Revised N4-011194**

Document: **N4-011194**
CR: 29.060-259r1
Title: Relay of Identification Request message and SGSN Context Request message
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**

6.6 GPRS and LCS

Document: **N4-011075**
CR: 29.060-272
Title: Support for Radio Priority LCS
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011089**
CR: 29.060-262
Title: Removing Hanging PDP Contexts in GGSN
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Motorola: This kind of requirements should come from stage 2.
- Ericsson: This is an optional mechanism to solve a problem.
- CN4 couldn't find an agreement in this problem.

- CR postponed to next meeting.
- Discussion will continue on CN4 mailing list.

Decision: **Postponed to CN4 #11**

Document: **N4-011171**
CR: 29.060-271
Title: PDP Context handling at Inter SGSN RA Update
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Lucent & Motorola: This might be 23.060 issue to specify requirements.
- Ericsson: If new SGSN has not currently the capacity to support the highest QoS it should support establish the PDP contexts which it can support.
- CN4 decide to send a LS to SA2 (cc:CN1, SA1) about PDP Context handling at Inter SGSN RA Update

Decision: **Postponed to CN4 #11**

6.7 AOB

7 UMTS Release 4 & Release 99 maintenance

7.1 Location Services

Document: **N4-011029**
CR: 09.02-A320
Title: Clarification on LCS parameters in MAP
Source: Siemens, Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: Also mirror CRs for R99 (29.002-312) and Rel-4 (29.002-313) agreed

Document: **N4-011072**
CR: 24.030-007
Title: CR 004 wrongly implemented
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: Agreed

Document: **N4-011073**
CR: 29.002-319
Title: Correct length of Add-GeographicalInformation
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

-

Decision: Also mirror CRs for Rel (29.002-320) agreed

7.2 Core Network Security

7.3 Bearer independent architecture

Document: **N4-011076**

CR: 29.002-319
Title: Problems With RAB Assignment Modification
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Proposed solution:
  - Introduce a new parameter in the first RANAP RAB Assignment Response to indicate that Modification of RAB including Link Characteristics is supported. This would be a change to Release 4. The parameter would only be included if Modification of Link Characteristics was supported. This solution would be backward compatible with R'99 where Modification of Link Characteristics is not supported, i.e. new parameter would not be present.
  - The RAB Assignment modification procedures in RANAP should be clarified. When modification of the link characteristics is required and modification of link characteristics is not supported then new Iu Transport Association and Address shall be provided. Thereby a new access termination for the existing RAB id would have been given by the MGW to the MSC server.
  - If modification of link characteristics is supported then exhibiting Transport Association and Address shall be used. The resulting sequences are shown in Figures 2 and 3, where once the call is established the UE shall send a Modify message to the MSC server.
- CN4 agreed the solution
- LS to RAN 3 N4-011213 (Phil Hodges)

Decision: **Noted**

Document: **N4-011077**
CR: 23.205-010
Title: Correction of Bearer Modification Handling
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- References have to be in 3GPP format.
  - Editor will correct them.
- Other spec affected: RAN 3 25.413 v4.2.0

Decision: **Agreed**

Document: **N4-011079**
CR: 29.232-012
Title: Removal of the Reuse Idle Package
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011080**
CR: 23.205-011
Title: Introduction of MGW Congestion Handling
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

- Nokia: congestion handling shall be optional.
  - Ericsson: It's better to mention this in stage 3.

Decision: **Agreed**

Document: **N4-011081**
CR: 29.232-013
Title: Introduction of MGW Congestion Handling
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson

Discussion:

Decision: **Revised N4-011214**

Document: **N4-011214**
CR: 29.232-013r1
Title: Introduction of MGW Congestion Handling
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011082**
CR: 23.205-012
Title: Correction of Handover/Relocation for Speech and Non-Speech Calls
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011083**
CR: 29.232-014
Title: Correction of Release Procedures
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011084**
CR: 29.232-015
Title: Clarification Of Use Of 3GUP package For PCM
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011184**
CR: 29.232-011
Title: Inclusion of H.248 Annex L 'error codes and service change reasons'
Source: Ericsson
Presented: Mr. Alf Heidermark, Ericsson
Discussion:

Decision: **Agreed**

7.4 IP signalling in the core network

7.5 TrFO

Document: **N4-011152**
CR:
Title: Liaison Statement on "Global CN-ID definition"
Source: RAN 3
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Noted**

Document: **N4-011182**
CR: 23.003-034
Title: Introduction of Global CN –ID definition
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011183**
CR: 23.003-035
Title: Introduction of Global CN –ID definition
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

7.6 GPRS

Document: **N4-011034**
CR: 29.060-249
Title: Clarification on the handling of the GTP MM Context IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

Decision: **Agreed**; Also mirros CR (N4-011216) for Rel-4 agreed (29.060-273)

Document: **N4-011035**
CR: 29.060-250
Title: Clarification on the handling of protocol configuration options IE

Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Ericsson: CR should be: F agreed by consensus
- There are different interpretation from all vendors: Nokia, Ericsson & Lucent
    - Nokia: This should be optional
    - Ericsson & Lucent: This should be conditional; but they have a different view how to enforce it.
- Ericsson: There might be some influences for CN1 documents.
- Chairman supposed to send LS to CN1
- LS to CN1; N4-01217

Decision: **Rejected**

Document: **N4-011036**
CR: 29.060-251
Title: About Recovery mechanism in GTP
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Motorola: This is not an essential correction. We can't except this correction to R99; only for Rel-4.
- Nokia & Nortel: We can't except this for R99 either.
- Ericsson: This should be approved by consensus.
- Siemens: What about backward compability problems?
    - Lucent: Shouldn't be a problem.

Decision: **Rejected**

Document: **N4-011037**

CR: 29.060-252
Title: Clarification on the GTP PDP context IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Category have to be F: approved by consensus
- Sentence: " In this case, the old SGSN shall fill this field with value “0” and the new SGSN shall not include Sequence number field in the G-PDUs of the PDP context." have to be removed.

Decision: **Revised** N4-011218

Document: **N4-011218**
CR: 29.060-252r1
Title: Clarification on the GTP PDP context IE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

Decision: **Approved**; Also mirror CR N4-011219 for Rel-4 (29.060-274) approved

Document: **N4-011038**
CR: 29.060-253
Title: Clarification on create PDP context for existing PDP context
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Motorola: Should this kind of behaviour come from Stage 2?
  - Ericsson: Stage 2 doesn't say anything about this. The right place is stage 3.
- Ericsson: We agree this is an essential correction, but we have to ask from CN1 how do they want to describe this in 24.008.
- NEC & Motorola don't want this change for R99.
- Postponed to CN4 #11 Cancun.

Decision: **Postponed** to CN4 #11

Document: **N4-011147**
CR:
Title: LS on "Access Point Name" usage
Source: SA 5
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: Noted

Document: **N4-011046**
CR: 29.060-254
Title: Add APN.OI sub-field to the APN in PDP context IE
Source: NEC
Presented: Mr. Peter Schmitt, Chairman
Discussion:

- Requirements for this CR are coming from SA5 LS (N4-011147).
  - Requirements are only for Rel-4.
- Siemens: Do we have any compatibility problems if we agree this CR only for Rel-4?
  - Ericsson & Motorola there shouldn't be any!
- R99 CR rejected, Rel-4 agreed

Decision: **Rejected**

Document: **N4-011047**
CR: 29.060-255
Title: Add APN.OI sub-field to the APN in PDP context IE
Source: NEC

Presented: Mr. Peter Schmitt, Chairman
Discussion:

- Nokia: Do we have to do these changes also in chapter 7.30 because there is a similar sentence?
    - Motorola & Ericsson: No, only for chapter 7.29.

Decision: **Agreed**

Document: **N4-011085**
CR: 29.010-037
Title: Cause Code mapping between 29.060 and 24.008
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Category F: Agreed by consensus
- Nortel: We can only accept this for Rel-4 or later.
- Nokia: We want only one table.
- Vodafone: The new column is needed.
- R99 Rejected

Decision: **Rejected**

Document: **N4-011086**
CR: 29.010-038
Title: Cause Code mapping between 29.060 and 24.008
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Category F: Agreed by consensus
- Nortel: We can only accept this for Rel-4 or later.
- Nokia: We want only one table.
- Vodafone: The new column is needed.
- Lucent: The other specs effected have to remove.
- Discussion will continue on CN4 e-mail list

Decision: **Rejected**

Document: **N4-011101**
CR: 29.002-326
Title: Addition of parameter into SRIforGPRS Error extensions
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Nokia and Ericsson don't see this is a solution for problem.

Decision: **Rejected**

7.7 Camel phase 3

Document: **N4-011197**
CR: 29.002-317r1
Title: Indication of deletion of CSI in Notify Subscriber Data Change
Source: Lucent
Presented: Mr. Michel Grech, Lucent
Discussion:

Decision: **Agreed**; Also mirror CR N4-011198 for Rel-4 (29.002-318r1).

Document: **N4-011201**
CR: 23.018-079
Title: Handling of Reconnect on Leg2 Disconnect
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone

Discussion:

Decision: **Agreed**; Also mirror CRs N4-011202 and N4-011203 for Rel-4 and Rel-5 (23.018-080 and 23.018-081) agreed

Document: **N4-011189**
CR: 29.002-338
Title: CUG-Info is not exported from 29.002
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Agreed**; Also mirror CRs N4-011190 for Rel-4 (29.002-339) agreed

Document: **N4-011208**
CR: 29.002-340
Title: Clarification on NSCD when data is withdrawn
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Agreed**; Also mirror CRs N4-011209 for Rel-4 (29.002-341) agreed

Document: **N4-011210**
CR: 29.002-342
Title: Clarification of sending CAMEL information in stand alone ISD case
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Agreed**; Also mirror CRs N4-011211 for Rel-4 (29.002-343) agreed

7.8 GPRS & GTP enhancements

Document: **N4-011131**
CR:
Title: Liaison Statement on "Unique GGSN Addresses"
Source: SA 2
Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Noted**

Document: **N4-011141**
CR:
Title: “Unique GGSN address required for charging purposes”
Source: SA 5
Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Noted**

Document: **N4-011153**
CR:
Title: Use of unambiguous GGSN address to ensure correct charging
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

- Two proposal:
  - Solution A: Add field ‘GGSN address in use’ to PDP Context
  - Solution B: GGSN address for control plane must not be changed in "Update PDP Context Response"
- All the vendors support proposal B.

Decision: **Noted**

Document: **N4-011156**
CR: 29.060-267
Title: GGSN address for control plane must not be changed in "Update PDP Context Response" (R99)
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

- Ericsson supposed better wording for this CR.
    - Agreed by companies

Decision: **Revised** N4-011220

Document: **N4-011220**
CR: 29.060-267r1
Title: GGSN address for control plane must not be changed in "Update PDP Context Response" (R99)
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

- LS have to be sent to SA5, SA2 and CN2

Decision: **Approved**; Also mirror CR N4-011221for Rel-4 (29.060-268) approved

Document: **N4-011103**
CR: 29.060-263
Title: Clarification of header marker setting for Error Indication
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Category F agreed by consensus
- Lucent did see this CR is not needed for R99

Decision: **Rejected**

Document: **N4-011104**
CR: 29.060-264
Title: Clarification of header marker setting for Error Indication
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Category F agreed by consensus

Decision: **Agreed**

Document: **N4-011162**
CR: 29.060-269
Title: Using IPv6 in Core network and maintaining compatibility to IPv4 GSNs
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson: We have this interworking problem with Ipv4 and Ipv6 and it have to solve, but we believe a solution is not so simple as CR describes.
- Ericsson proposed to postponed the CR. CN4 have to ask guidance from SA2.
- Lucent agreed with Ericsson that CN4 can't solve this problem here today.
- Lucent: Do we support this CR for R99 and Rel-4 or just for Rel-4and beyond?
    - CN4 agreed to support Ipv6 in Rel-5. Not in R99 or Rel-4.

Decision: **Rejected**

7.9 Handover

Document: **N4-011178**
CR: 29.010-035r1
Title: LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS
Source: Lucent, Ericsson
Presented: Mr. Alex Moukalled, Lucent
Discussion:

- Location report control message shall be introduce in 4.4.3.4
- Some editorial corrections made.

Decision: **Revised** to N4-011232

Document: **N4-011232**
CR: 29.010-035r2
Title: LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS
Source: Lucent, Ericsson
Presented:
Discussion:

Decision: **Agreed**; Also mirror CR N4-011233 (29010-036) agreed

Document: **N4-011090**
CR: 29.002-321
Title: Clarify encoding of RNC Id
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- Nokia & Lucent agreed the Ericsson original CR
- Alcatel couldn't check CR back at home. They will do it before 26th October. If they have some concerns -> discussion will continue on CN4 email-list if needed.
- Conditionally approved by CN4

Decision: **Agreed**, Also mirror CR (29.002-322) for Rel-4 agreed

Document: **N4-011092**
CR:
Title: Encoding of RANAP parameters in MAP
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- Agreed by CN4

Decision: **Noted**

Document: **N4-011093**
CR: 29.002-323
Title: Clarify encoding of RANAP parameters in MAP
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**; Also mirror CR for Rel-4 N4-11094 (29.002-324) agreed

Document: **N4-011095**
CR: 29.010-039
Title: Global replace of BSS-APDU with AN-APDU
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**; Also mirror CR for Rel-4 N4-11096 (29.010-040) agreed

Document: **N4-011174**
CR: 29.002-335
Title: Correction to the Allowed GSM Algorithms parameter
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed**; Also mirror CR for Rel-4 N4-11176 (29.002-336) agreed

Document: **N4-011177**
CR: 29.002-337r1
Title: Correction of references
Source: Siemens
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Agreed**

7.10 AOB

Document: **N4-011041**
CR: 23.018-078
Title: Missing connector in procedure Process_Call_Waiting_MSC
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-011042**
CR: 23.083-008
Title: Missing connector in procedure Process_Call_Waiting_MSC
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

- Category F; agreed by consensus

Decision: **Agreed**

Document: **N4-011043**
CR: 29.002-314
Title: Handling of linked operations in the MAP protocol machine
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-011044**
CR: 29.002-315
Title: Alignment of SDL with text for procedure Process_Components in the MAP protocol machine
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

- Only for R99. Rel-4 approved earlier.

Decision: **Agreed**

Document: **N4-011097**
CR: 29.002-325
Title: Clarifications on long FTN

Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-011109**
CR: 29.002-330
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Corrections have to be highlighted by tracking.
- Ericsson: We have found an error from section 8.1.7.3.; VLR should be SGSN.
    - Nortel: There has been a copy-paste error.
- Category F: Agreed by consensus

Decision: **Revised** to N4-011226

Document: **N4-011226**
CR: 29.002-330r1
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

Decision: **Agreed**; Also mirror CR N4-011227 for Rel-4 (29.002-331r1) agreed.

Document: **N4-011111**
CR: 23.116-003
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Editorial modification was made.
- Category F: Agreed by consensus

Decision: **Revised** to N4-011228

Document: **N4-011228**
CR: 23.116-003r1
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

Decision: **Approved**: Also mirror CR N4-011229 (23.116-004r1) approved

Document: **N4-011113**
CR: 23.912-001
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Editorial modification was made
- Category F: Agreed by consensus

Decision: **Revised** to N4-011230

Document: **N4-011230**
CR: 23.912-001r1
Title: Clarification of methodology for maintaining data consistency in Supercharger
Source: Nortel

Presented: Mr. Jeremy Fuller, Nortel
Discussion:

Decision: **Agreed**; Also mirror CR (N4-011231) for Rel-4 (23.912-002r2) agreed.

Document: **N4-011172**
CR: 29.002-333
Title: Addition of RAB ID to Prepare Handover procedure
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed**; Also mirror CR N4-011173 for Rel- 4 (29.002-334) agreed.

Document: **N4-011144**
CR: 24.030-010
Title: Correction of MO-LR procedure
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

- Companies couldn't approve this CR for R99.

Decision: **Rejected**

Document: **N4-011145**
CR: 24.030-011
Title: Correction of MO-LR procedure
Source: Nortel
Presented: Mr. Jeremy Fuller, Nortel
Discussion:

Decision: **Approved**

8 GSM maitenance

Document: **N4-011098**
CR: 04.30-A003
Title: Specify usage of SS Version Indicator
Source: Ericsson, NTC
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Approved**; Also mirror CRs N4-011099 & N4-011100 (24.030-008 & 24.030-009) approved

Document: **N4-011115**
CR: 04.10-A010
Title: Usage of SS Version Indicator
Source: Ericsson, NTC
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Approved**; Also mirror CRs N4-011116 & N4-011117 (24.010-004 & 24.010-005) approved

Document: **N4-011027**
CR: 04.10-A010
Title: Clarification on SGSN Context Ack msg.
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Ericsson: This should be agreed by consensus. Ericsson can't agree this CR in any case.
    - Siemens agreed with Ericsson.

- Motorola: The are only a one part of text.
- Changing the IE is not backwards compatible
- Ericsson: Motorola should come back with a new CR and the reason for change.
- Nortel: We don't want to see any change in R97
- Vodafone: We can't just add something to specs (R97) if it's not a critical correction.

Decision: **Rejected**

9 AOB

9.1 Generic User Profile

Document: **N4-011056**
CR:
Title: WID on Generic User Profile
Source: CN4 Chairman
Presented: Mr. Peter Schmitt
Discussion:

-

Decision: Noted

Document: **N4-011204**
CR:
Title: Investigation of distributed data presentation how SyncML solve the issue
Source: CN4 Chairman
Presented: Mr. Fraser Harding, Openwave
Discussion:

- SyncML is transport independent

Decision: Noted

10 Update of the Work Plan

Updates will be made in CN WG4 #11 at Cancun.

11 Future meetings

The following meeting schedule contains modifications regarding the hosts and dates.

Date	Meeting	Venue	Host
7 – 8 November 2001	SUA ad hoc with RAN3	Helsinki, FINLAND	Nokia
26 – 30 November 2001	CN4 #11	Cancun, Mexico	North American Friends of 3GPP
12 – 14 December 2001	TSG-CN #14	Kyoto, Japan	TTC
28 January – 1 February 2002	CN4 #12	Sophia Antipolis, FRANCE	ETSI
6 – 8 March 2002	TSG-CN #15	Korea	TTA
8 – 12 April 2002	CN4 #13	North America	North American Friends of 3GPP
13 – 17 May 2002	CN4 #14	Sophia Antipolis, FRANCE (or	ETSI

		Somewhere else in Europe host by Ericsson)	
5 – 7 June 2002	TSG-CN #16	Marco Island, Florida, USA	Motorola
29 July – 2 August 2002	CN4 #15	Helsinki, FINLAND	Sonera, Nokia, Elisa communication,
4 – 6 September 2002	TSG-CN #17	France	Alcatel
23 – 27 September 2002	CN4 #16	North America	North American Friends of 3GPP
11 – 15 November 2002	CN4 #17	Penang, Malaysia	Japanese Friends of 3GPP
4 – 6 December 2002	TSG-CN #18	New Orleans, Louisiana, USA	North American Friends of 3GPP

Please note that due to the workload additional Ad Hoc Meetings can be planned on a short notice.

12 Output of CN4# Ad Hoc Meeting

12.1 Change Requests

Tdoc #	Title	Source
N4-011029	CR 09.02-A320 (R98) on Clarification on LCS parameters in MAP	Siemens, Ericsson
N4-011030	CR 29.002-312 (R99) on Clarification on LCS parameters in MAP	Siemens, Ericsson
N4-011031	CR 29.002-313 (Rel-4) on Clarification on LCS parameters in MAP	Siemens, Ericsson
N4-011034	CR 29.060-249 (R99) on Clarification on the handling of the GTP MM Context IE	Lucent
N4-011041	CR 23.018-078 (Rel-4) on Missing connector in procedure Process_Call_Waiting_MSC	Vodafone
N4-011042	CR 23.083-008 (Rel-4) on Missing connector in procedure Process_Call_Waiting_MSC	Vodafone
N4-011043	CR 29.002-314 (Rel-4) on Handling of linked operations in the MAP protocol machine	Vodafone
N4-011044	CR 29.002-315 (R99) on Alignment of SDL with text for procedure Process_Components in the MAP protocol machine	Vodafone
N4-011047	CR 29.060-255 (Rel-4) on Add APN.OI sub-field to the APN in PDP context IE	NEC
N4-011070	CR 23.003-033 (Rel-5) on Rules for TMSI partitioning	Ericsson
N4-011072	CR 24.030-007 (R99) on CR 004 wrongly implemented	Ericsson
N4-011073	CR 29.002-319 (R99) on Correct length of Add-GeographicalInformation	Ericsson
N4-011074	CR 29.002-320 (Rel-4) on Correct length of Add-GeographicalInformation	Ericsson
N4-011075	CR 29.060-272 (Rel-5) on Support for Radio Priority LCS	Ericsson
N4-011077	CR 23.205-010 (Rel-4) on Correction of Bearer Modification Handling	Ericsson
N4-011079	CR 29.232-012 (Rel-4) on Removal of the Reuse Idle Package	Ericsson
N4-011080	CR 23.205-011 (Rel-5) on Introduction of MGW Congestion Handling	Ericsson
N4-011082	CR 23.205-012 (Rel-4) on Correction of Handover/Relocation for Speech and Non-Speech Calls	Ericsson
N4-011083	CR 29.232-014 (Rel-4) on Correction of Release Procedures	Ericsson
N4-011084	CR 29.232-015 (Rel-4) on Clarification Of Use Of 3GUP package For PCM	Ericsson
N4-011090	CR 29.002-321 (R99) on Clarify encoding of RNC Id	Ericsson
N4-011091	CR 29.002-322 (Rel-4) on Clarify encoding of RNC Id	Ericsson
N4-011093	CR 29.002-323 (R99) on Clarify encoding of RANAP parameters in MAP	Ericsson
N4-011094	CR 29.002-324 (Rel-4) on Clarify encoding of RANAP parameters in MAP	Ericsson
N4-011095	CR 29.010-039 (R99) on Global replace of BSS-APDU with AN-APDU	Ericsson
N4-011096	CR 29.010-040 (Rel-4) on Global replace of BSS-APDU with AN-APDU	Ericsson
N4-011097	CR 29.002-325 (Rel-4) on Clarifications on long FTN	Ericsson
N4-011098	CR 4.30-A003 (R98) on Specify usage of SS Version Indicator	NTC, Ericsson
N4-011099	CR 24.030-008 (R99) on Specify usage of SS Version Indicator	NTC, Ericsson

N4-011100	CR 24.030-009 (Rel-4) on Specify usage of SS Version Indicator	NTC, Ericsson
N4-011104	CR 29.060-264 (Rel4) on Clarification of header marker setting for Error Indication	Nortel
N4-011115	CR 04.10-A010 (R98) on Usage of SS Version Indicator	NTC, Ericsson
N4-011116	CR 24.010-004 (R99) on Usage of SS Version Indicator	NTC, Ericsson
N4-011117	CR 24.010-005 (Rel-4) on Usage of SS Version Indicator	NTC, Ericsson
N4-011145	CR 24.030-011 (Rel-4) on Correction of MO-LR procedure	Nortel
N4-011172	CR 29.002-333 (R99) on Addition of RAB ID to Prepare Handover procedure	Nokia
N4-011173	CR 29.002-334 (Rel-4) on Addition of RAB ID to Prepare Handover procedure	Nokia
N4-011174	CR 29.002-335 (R99) on Correction to the Allowed GSM Algorithms parameter	Nokia
N4-011175	CR 29.002-336 (Rel-4) on Correction to the Allowed GSM Algorithms parameter	Nokia
N4-011177	CR 29.002-337r1 (Rel-4) on Correction of references	Siemens
N4-011182	CR 23.003-034 (Rel-4) on Introduction of Global CN –ID definition	Ericsson
N4-011183	CR 23.003-035 (Rel-5) on Introduction of Global CN –ID definition	Ericsson
N4-011184	CR 29.232-011r1 (Rel-4) on Inclusion of H.248 Annex L 'error codes and service change reasons'	Ericsson
N4-011189	CR 29.002-338 (R99) on CUG-Info is not exported from 29.002	Ericsson
N4-011190	CR 29.002-339 (Rel-4) on CUG-Info is not exported from 29.002	Ericsson
N4-011194	CR 29.060-259 (Rel-5) on Relay of Identification Request message and SGSN Context Request message	Ericsson
N4-011197	CR 29.002-317r1 (R99) on Indication of deletion of CSI in Notify Subscriber Data Change	Lucent
N4-011198	CR 29.002-318r1 (Rel-4) on Indication of deletion of CSI in Notify Subscriber Data Change	Lucent
N4-011201	CR 23.018-079 (R99) on Handling of Reconnect on Leg2 Disconnect	Vodafone
N4-011202	CR 23.018-080 (Rel-4) on Handling of Reconnect on Leg2 Disconnect	Vodafone
N4-011203	CR 23.018-081 (Rel-5) on Handling of Reconnect on Leg2 Disconnect	Vodafone
N4-011208	CR 29.002-340 (R99) on Clarification on NSCD when data is withdrawn	Alcatel
N4-011209	CR 29.002-341 (Rel-4) on Clarification on NSCD when data is withdrawn	Alcatel
N4-011210	CR 29.002-342 (R99) on Clarification of sending CAMEL information in stand alone ISD case	Alcatel
N4-011211	CR 29.002-343 (Rel-4) on Clarification of sending CAMEL information in stand alone ISD case	Alcatel
N4-011214	CR 29.232-013r1 (Rel-5) on Introduction of MGW Congestion Handling	Ericsson
N4-011216	CR 29.060-273 (Rel-4) on Clarification on the handling of the GTP MM Context IE	Lucent
N4-011218	CR 29.060-252r1 (R99) on Clarification on the GTP PDP context IE	Lucent
N4-011219	CR 29.060-274 (Rel-4) on Clarification on the GTP PDP context IE	Lucent
N4-011220	CR 29.060-267r1 (R99) on GGSN address for control plane must not be changed in "Update PDP Context Response"	Alcatel
N4-011221	CR 29.060-268r1 (Rel-4) on GGSN address for control plane must not be changed in "Update PDP Context Response"	Alcatel
N4-011226	CR 29.002-330r1 (R99) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel
N4-011227	CR 29.002-331r1 (Rel-4) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel
N4-011228	CR 23.116-003r1 (R99) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel
N4-011229	CR 23.116-004r1 (Rel-4) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel
N4-011230	CR 23.912-001r1 (R99) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel

N4-011231	CR 23.912-002r1 (Rel-4) on Clarification of methodology for maintaining data consistency in Supercharger	Nortel
N4-011232	CR 29.010-035r2 (R99) on LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent
N4-011233	CR 29.010-036 (Rel-4) on LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent

12.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN4 #10 meeting:

TDOC N4-00xxxx	Subject	To	Cc	Attachment	Sent
N4-011195	Liaison Statement on PDP Context handling at Inter SGSN RA Update	SA2	CN1, SA1	N4-011171	22th Oct.
N4-011196	Liaison Statement on handling of AMR-WB in Core Networks	SA4			22th Oct.
N4-011199	Liaison Statement on AMR-WB and Legal Interception	SA3 LI		N4-011057	22th Oct.
N4-011205	Reply Liaison Statement On the use of Network Domain Security for protection of SIP signalling messages	SA3	SA2, CN1		22th Oct.
N4-011206	Reply to Liaison Statement on Usage of Private ID	CN1	SA1, SA2, SA3, SA5		22th Oct.
N4-011212	Liaison Statement on AMR-WB and Charging	SA5		N4-011057	22th Oct.
N4-011217	LS On the handling of the Protocol Configuration Options IE	CN1			18th Oct.
N4-011222	Reply Liaison Statement on Unique GGSN address	SA2, SA5	CN2	N4-011220, N4-011221	22th Oct.
N4-011234	Liason Statement On RANAP Indication Of Modify Support Of Link Characteristics	RAN3		N4-011076, N4-011077	22th Oct.
N4-011235	Selection of S-CSCF by I-CSCF based on capability requirements	SA2, SA5	CN1, SA2		22th Oct.
N4-011236	LS on Subscription Management	CN4	SA5	N4-011065	22th Oct.

12.3 TS/TRs

Tdoc #	Tdoc Title

12.4 WIs

Tdoc #	Tdoc Title
N4-011237	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-011021	Agenda	Chairman	Approved
N4-011022	Tdoc allocation	Chairman	Approved
N4-011023	List of agreed output documents	Chairman	Noted
N4-011024	TSG CN WG4 #09 meeting report, Dresden	MCC	Approved
N4-011025	TSG CN WG4 #09bis meeting report, Helsinki	MCC	Approved
N4-011026	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel Motorola	Noted
N4-011027	Clarification on SGSN Context Ack msg.	Motorola	Rejected
N4-011028	Clarification on SGSN Context Ack msg.	Motorola	Rejected
N4-011029	Clarification on LCS parameters in MAP	Siemens	Agreed
N4-011030	Clarification on LCS parameters in MAP	Siemens	Agreed
N4-011031	Clarification on LCS parameters in MAP	Siemens	Agreed
N4-011032	3GPP TS 29.228 v0.3.0	Editor	Revised N4-011063
N4-011033	Report back from TSG CN#13 & TSG SA#13	CN4 Chairman	Noted
N4-011034	Clarification on the handling of the GTP MM Context IE	Lucent Technologies	Agreed
N4-011035	Clarification on the handling of protocol configuration options IE	Lucent Technologies	Rejected
N4-011036	About Recovery mechanism in GTP	Lucent Technologies	Rejected
N4-011037	Clarification on the GTP PDP context IE	Lucent Technologies	Revised N4-011218
N4-011038	Clarification on create PDP context for existing PDP context	Lucent Technologies	Postponed to CN4 #11
N4-011039	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011040	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011041	Missing connector in procedure Process_Call_Waiting_MSC	Vodafone	Agreed
N4-011042	Missing connector in procedure Process_Call_Waiting_MSC	Vodafone	Agreed
N4-011043	Handling of linked operations in the MAP protocol machine	Vodafone	Agreed
N4-011044	Alignment of SDL with text for procedure Process_Components in the MAP protocol machine	Vodafone	Agreed
N4-011045	Report back from joint ad hoc on GUP	CN4 Chairman	Noted
N4-011046	Add APN.OI sub-field to the APN in PDP context IE	NEC	Rejected
N4-011047	Add APN.OI sub-field to the APN in PDP context IE	NEC	Agreed
N4-011048	Clarification on IMSI format (Unused fields)	NEC	Withdrawn
N4-011049	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC	Withdrawn
N4-011050	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	NEC	Withdrawn
N4-011051	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Revised N4-011178
N4-011052	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Revised N4-011179
N4-011053	Corrections on the SDL diagrams for LCS	**Fujitsu**	Postponed to CN4#11
N4-011054	Clarification on the use of the Teardown indicator IE	**Fujitsu**	Postponed to CN4#11
N4-011055	Clarification on the use of the Teardown indicator IE	**Fujitsu**	Postponed to CN4#11
N4-011056	WID on Generic User Profile	CN4 chairman	Noted
N4-011057	WID on AMR Wideband – Core Network aspects	CN4 chairman	Noted
N4-011058	TS 23.236: Intra Domain connection of RAN nodes to multiple CN nodes	CN4 chairman	Noted
N4-011059	Indication of deletion of CSI in Notify Subscriber Data Change	Lucent Technologies	Revised N4-011197
N4-011060	Indication of deletion of CSI in Notify Subscriber Data Change	Lucent Technologies	Revised N4-011198
N4-011061	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface WID	Lucent Technologies et al.	Revised N4-011207
N4-011062	Comments to the SUA Feasibility Study	Lucent Technologies	Noted
N4-011063	3GPP TS 29.228 v0.3.0	Editor	Revised N4-011187
N4-011064	3GPP TS 29.229 v 0.3.0	Editor	
N4-011065	S-CSCF selection related information	L.M. Ericsson, Siemens	Noted
N4-011066	Diameter commands for user authentication in the Cx interface	L.M. Ericsson, Siemens	Noted
N4-011067	Definition of IMS user data in HSS	L.M. Ericsson,	Noted

		Siemens	
N4-011068	Progress in IETF of the standardisation affecting Cx interface	L.M. Ericsson	Noted
N4-011069	Comments on TR 29.903 V 0.2.0, Feasibility Study on SS7 signalling transport in the core network with SCCP-User Adaptation Layer (SUA)	L.M. Ericsson	Noted
N4-011070	Rules for TMSI partitioning	L.M. Ericsson	Agreed
N4-011071	Relaying of Identification Request and SGSN Context Request message to another SGSN.	L.M. Ericsson	Revised N4-011194
N4-011072	CR 004 wrongly implemented	L.M. Ericsson	Agreed
N4-011073	Correct length of Add-GeographicalInformation	L.M. Ericsson	Agreed
N4-011074	Correct length of Add-GeographicalInformation	L.M. Ericsson	Agreed
N4-011075	Support for Radio Priority LCS	L.M. Ericsson	Agreed
N4-011076	Problems With RAB Assignment Modification	L.M. Ericsson	Noted
N4-011077	Correction of Bearer Modification Handling	Ericsson L.M.	Agreed
N4-011078	Inclusion of H.248 Annex L, 'Error Codes and Service Change Reasons'	Ericsson L.M.	Revised N4-011184
N4-011079	Removal of Reuse Idle Package	Ericsson L.M.	Agreed
N4-011080	Introduction of MGW Congestion Handling	Ericsson L.M.	Agreed
N4-011081	Introduction of MGW Congestion Handling	Ericsson L.M.	Revised N4-011214
N4-011082	Correction of Handover/Relocation for Speech and Non-Speech Calls	Ericsson L.M.	Agreed
N4-011083	Correction of Release Procedures	Ericsson L.M.	Agreed
N4-011084	Clarification Of Use Of 3GUP package For PCM	L.M. Ericsson	Agreed
N4-011085	Cause Code mappings between 29.060 and 24.008	L.M. Ericsson	Rejected
N4-011086	Cause Code mappings between 29.060 and 24.008	L.M. Ericsson	Rejected
N4-011087	Removal of GGSN Control Plane address from Update PDP Context Response	L.M. Ericsson	Withdrawn
N4-011088	Removal of GGSN Control Plane address from Update PDP Context Response	L.M. Ericsson	Withdrawn
N4-011089	Removing hanging contexts in GGSN	L.M. Ericsson	Postponed To CN4 #11
N4-011090	Clarify encoding of RNC Id	L.M. Ericsson	Agreed
N4-011091	Clarify encoding of RNC Id	L.M. Ericsson	Agreed
N4-011092	Encoding of RANAP parameters in MAP	L.M. Ericsson	Noted
N4-011093	Clarify encoding of RANAP parameters in MAP	L.M. Ericsson	Agreed
N4-011094	Clarify encoding of RANAP parameters in MAP	L.M. Ericsson	Agreed
N4-011095	Global replace of BSS-APDU with AN-APDU	L.M. Ericsson	Agreed
N4-011096	Global replace of BSS-APDU with AN-APDU	L.M. Ericsson	Agreed
N4-011097	Clarifications on long FTN	L.M. Ericsson	Agreed
N4-011098	Specify usage of SS Version Indicator	L.M. Ericsson, NTC	Agreed
N4-011099	Specify usage of SS Version Indicator	L.M. Ericsson, NTC	Agreed
N4-011100	Specify usage of SS Version Indicator	L.M. Ericsson, NTC	Agreed
N4-011101	Addition of parameter into SRIforGPRS Error extensions.	Nortel	Rejected
N4-011102	Addition of parameter into SRIforGPRS Error extensions.	Nortel	Agreed
N4-011103	Clarification of header marker setting for Error Indication	Nortel	Rejected
N4-011104	Clarification of header marker setting for Error Indication	Nortel	Agreed
N4-011105	Subsequent InterSystem Handovers	Nortel	Withdrawn
N4-011106	Subsequent InterSystem Handovers	Nortel	Withdrawn
N4-011107	Support of Subsequent Handover to BSS after Inter MSC SRNS relocation for a GSM subscriber.	Nortel	Withdrawn
N4-011108	Support of Subsequent Handover to BSS after Inter MSC SRNS relocation for a GSM subscriber.	Nortel	Withdrawn
N4-011109	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011226
N4-011110	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011227
N4-011111	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011228
N4-011112	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011229
N4-011113	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011230
N4-011114	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Revised N4-011231
N4-011115	Usage of SS Version Indicator	NTC/ Ericsson	Agreed
N4-011116	Usage of SS Version Indicator	NTC/ Ericsson	Agreed
N4-011117	Usage of SS Version Indicator	NTC/ Ericsson	Agreed
N4-011118	Correction of the definition for Supported LCS Capability Set	NTC	Withdrawn
N4-011119	Introduction of GTP-IC	Hutchison3g	Noted
N4-011120	Clarifications of aspects of Multimedia Capabilities [ID 1281]	CN1 (to)	Noted

N4-011121	Flows related to Authenticated Registrations and Re-Registrations	CN1 (cc)	Noted
N4-011122	Amendments to CR on 23.153, for UMTS_AMR_2	CN1 (cc)	Noted
N4-011123	On the use of Network Domain Security for protection of SIP signalling messages“ (N1-011041 or S3-010403)	CN1 (cc)	Noted
N4-011124	Response to Liaison Statement on "Progressing the work in SA3 and CN1 on the IP Multimedia core network subsystem"	CN1 (cc)	Noted
N4-011125	LS on Removal of SIWF from R99 and onward	CN (to)	Noted
N4-011126	Response to LS (G2-010196) on Inter-BSC/RAN Network Assisted Cell Change	RAN2 (cc)	Noted
N4-011127	Response LS on inter-BSC/RAN Network Assisted Cell Change	RAN3 (cc)	Noted
N4-011128	Reply to SA2 LS on Cell ID in SIP messages	SA1 (cc)	Noted
N4-011129	LS S3-010403 on the use of Network Domain Security for protection of SIP signalling messages from WG3	SA2 (cc)	Noted
N4-011130	Liaison Statement on User Plane for IMS to PSTN Interworking	SA2 (cc)	Noted
N4-011131	Liaison Statement on "Unique GGSN Addresses"	SA2 /Alcatel (to)	Noted
N4-011132	Response to LS R3-012081	SA2 (cc)	Noted
N4-011133	LS “Stop reporting type”	SA2 (cc)	Noted
N4-011134	LS on Security aspects of the 3GPP push service	SA2 (to)	Noted
N4-011135	LS “Update of Iu-Flex status”	SA2 (to)	Noted
N4-011136	Security aspects for IMS related to Authentication	SA2 (cc)	Noted
N4-011137	Answer to LS on adding a RANAP cause to the Relocation Cancel Request, Tdoc: S2-012046 (N4-010982)	SA2 (to)	Noted
N4-011138	Liaison Statement response on "Inter-BSC/RAN Network Assisted Cell Change"	SA2 (to)	Noted
N4-011139	LS in reply to SA2 Liaison "WI on the End-to-End QoS Architecture for Release 5" (S2-011098)	SA5 (cc)	Noted
N4-011140	Reply to LS on basic and advanced services examples (S1-010271/ S5-010302)	SA5 (cc)	Noted
N4-011141	Liaison on “Unique GGSN address required for charging purposes”	SA5(to)	Noted
N4-011142	LS on Subscription Management	SA5 (to)	noted
N4-011143	Impacts of AMR-WB on TS 23.018	Vodafone	Noted
N4-011144	Correction of MO-LR procedure	**Nortel Networks**	Rejected
N4-011145	Correction of MO-LR procedure	**Nortel Networks**	Agreed
N4-011146	LS on “APN-OI needed in the SGSN for charging purposes”	SA5 (to)	Noted
N4-011147	LS on "Access Point Name" usage	SA5 (to)	Noted
N4-011148	LS to SyncML Requesting DevMan Update	T2 (cc)	Noted
N4-011149	LS Response to T2-010617	T2 (cc)	Noted
N4-011150	LS Response to SA5 on Multiple Aspects of Device Management	T2 (cc)	Noted
N4-011151	Liaison Statement on Usage of Private ID	CN1 (to)	Noted
N4-011152	Liaison Statement on "Global CN-ID definition"	RAN3 (to)	Noted
N4-011153	Use of unambiguous GGSN address to ensure correct charging	Alcatel	Noted
N4-011154	Add field ‘GGSN address in use’ to PDP Context (R99)	Alcatel	withdrawn
N4-011155	Add field ‘GGSN address in use’ to PDP Context (R4)	Alcatel	withdrawn
N4-011156	GGSN address for control plane must not be changed in "Update PDP Context Response" (R99)	Alcatel	Revised N4-011220
N4-011157	GGSN address for control plane must not be changed in "Update PDP Context Response" (R4)	Alcatel	Revised N4-011221
N4-011158	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011159	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011160	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011161	Bearer selection criteria of calls in a multicall	Siemens	Withdrawn
N4-011162	Using IPv6 in Core network and maintaining compatibility to IPv4 GSNs	Nokia	Rejected
N4-011163	Using IPv6 in Core network and maintaining compatibility to IPv4 GSNs	Nokia	Rejected
N4-011164	Focusing of AMR-WB WI	Nokia	Noted
N4-011165	Interworking between SCCP/M3UA and SUA	Nokia	Noted
N4-011166	Subscription Profile Updating	Nokia	Noted
N4-011167	Use of UML to model the User Profile in Cx	Nokia	Revised N4-011180
N4-011168	Mapping of Private and Public identities into AVPs	Nokia	Withdrawn
N4-011169	De-registration	Nokia	Noted
N4-011170	Cause Code Mapping between 29.060 and 24.008	L.M. Ericsson	Rejected
N4-011171	PDP Context handling at Inter SGSN RA Update	L.M. Ericsson	Postponed To CN4#11
N4-011172	Addition of RAB ID to Prepare Handover procedure	Nokia	Agreed
N4-011173	Addition of RAB ID to Prepare Handover procedure	Nokia	Agreed
N4-011174	Correction to the Allowed GSM Algorithms parameter	Nokia	Agreed

N4-011175	Correction to the Allowed GSM Algorithms parameter	Nokia	Agreed
N4-011176	Correction of references	Siemens	Revised N4-011177
N4-011177	Correction of references	Siemens	Rejected
N4-011178	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Revised N4-01232
N4-011179	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Revised N4-01233
N4-011180	Use of UML to model the User Profile in Cx	Nokia	Noted
N4-011181	XML and XSD assistance; OID repository and ASN.1 module database	ITU-T Study Group 7 (to)	Noted
N4-011182	Introduction of Global CN-ID definition	L.M. Ericsson	Agreed
N4-011183	Introduction of Global CN-ID definition	L.M. Ericsson	Agreed
N4-011184	Inclusion of H.248 Annex L, 'Error Codes and Service Change Reasons'	Ericsson L.M.	Agreed
N4-011185	Reply to N4-011069 of comments on TR 29.903 V 0.2.0, Feasibility Study on SS7 signalling transport in the core network with SCCP-User Adaptation Layer (SUA)	Motorola	Noted
N4-011186	Reply to N4-011062 regarding comments to the SUA Feasibility Study TR	Motorola	Noted
N4-011187	3GPP TS 29.228 v0.3.0	Editor	Approved
N4-011188	S-CSCF selection related information	CN4	Revised N4-011235
N4-011189	CUG-Info is not exported from 29.002	Ericsson	Agreed
N4-011190	CUG-Info is not exported from 29.002	Ericsson	Agreed
N4-011191	Signalling Bearer Analysis	Motorola	Noted
N4-011192	3GPP TS 29.229 v 0.3.0	Editor	Info
N4-011193	Future meetings	Chairman	
N4-011194	Relaying of Identification Request and SGSN Context Request message to another SGSN.	L.M. Ericsson	Agreed
N4-011195	LS to SA2 and cc: SA1 CN1 on PDP Context handling at Inter SGSN RA Update	CN4	Approved
N4-011196	LS to SA4 on Focusing of AMR-WB WI	CN4	Approved
N4-011197	Indication of deletion of CSI in Notify Subscriber Data Change	Lucent Technologies	Approved
N4-011198	Indication of deletion of CSI in Notify Subscriber Data Change	Lucent Technologies	Agreed
N4-011199	LS to SA3 about legal interception	CN4	Approved
N4-011200	LS on Subscription Management	CN4	Revised N4-011236
N4-011201	Handling of Reconnect on leg2 disconnect	CN2/Vodafone	Agreed
N4-011202	Handling of Reconnect on leg2 disconnect	CN2/Vodafone	Agreed
N4-011203	Handling of Reconnect on leg2 disconnect	CN2/Vodafone	Agreed
N4-011204	Investigation of distributed data presentation how SyncML solve the issue	Openwave	Noted
N4-011205	On the use of Network Domain Security for protection of SIP signalling messages from TSG SA WG3	CN4	Approved
N4-011206	Reply LS to CN1on Liaison Statement on Usage of Private ID (cc: sa1, SA2, SA3, SA5)	CN4	Approved
N4-011207	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface WID	Lucent Technologies et al.	Revised N4-011237
N4-011208		CN2/Alcatel	Agreed
N4-011209		CN2/Alcatel	Agreed
N4-011210		CN2/Alcatel	Agreed
N4-011211		CN2/Alcatel	Agreed
N4-011212	LS	CN4	Approved
N4-011213	Liaison Statement On RANAP Indication Of Modify Support Of Link Characteristics	CN4	Revised N4-011234
N4-011214	Introduction of MGW Congestion Handling	Ericsson L.M.	Agreed
N4-011215	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel Motorola	Revised N4-011225
N4-011216	Clarification on the handling of the GTP MM Context IE	Lucent Technologies	Agreed
N4-011217	LS to CN1 (Alessio)	CN4	Approved
N4-011218	Clarification on the GTP PDP context IE	Lucent Technologies	Agreed
N4-011219	Clarification on the GTP PDP context IE	Lucent Technologies	Agreed
N4-011220	GGSN address for control plane must not be changed in "Update PDP Context Response" (R99)	Alcatel	Agreed
N4-011221	GGSN address for control plane must not be changed in "Update PDP Context Response" (R4)	Alcatel	Agreed
N4-011222	LS to SA2	CN4	Approved
N4-011223	Clarify encoding of RNC Id	L.M. Ericsson	Withdrawn
N4-011224	Clarify encoding of RNC Id	L.M. Ericsson	Withdrawn
N4-011225	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel Motorola	Revised N4-011238
N4-011226	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed
N4-011227	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed
N4-011228	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed

N4-011229	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed
N4-011230	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed
N4-011231	Clarification of methodology for maintaining data consistency in Supercharger	Nortel	Agreed
N4-011232	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Agreed
N4-011233	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	Lucent Technologies	Agreed
N4-011234	Liaison Statement On RANAP Indication Of Modify Support Of Link Characteristics	CN4	Approved
N4-011235	S-CSCF selection related information	CN4	Approved
N4-011236	LS on Subscription Management	CN4	Approved
N4-011237	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface WID	Lucent Technologies et al.	Approved
N4-011238	TR29.903 SUA Feasibility Study	Cisco, Nokia, Nortel Motorola	Will be send out 22nd Oct.

Annex C: Make calls for IPRs

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective** Organizational Partners **of Essential IPRs they become aware of**.

The members take note that they are hereby 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 the Technical Specification Group.
- to notify the Chairman, or the Director-General 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.

Annex D: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG4 members should be aware of.

2.2 3GPP email lists:

To receive information about CN4 issues, all delegates and other interested parties MUST register for email list **3GPP_TSG_CN_WG4**. 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_WG4 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 *`

2.3 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_WG4*** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

`search * in 3GPP_TSG_CN_WG4 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 CN4, go to:
http://list.3gpp.org/archives/3gpp_tsg_cn_wg4.html

2.4 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

2.5 Documents on the server:

All documents submitted to CN4 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/WG4_protocollars/
e.g. the documents for CN4 meeting #4 can be found at:
ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/tsgN4_04/Docs/

ANNEX E: Join session meeting report

8.2 IMS 23.218 issues for joint CN WG session

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 benefitial 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 endorced 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
Discussion :
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 syncronization 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 unmanagable 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
Discussion :
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 ment 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
Discussion :
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 sceleton 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 propriatary 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
Discussion :
Conclusion : Agreed

8.3 IMS 24.228 issues for joint CN WG session

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 Singalling 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 adressed 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: Behavior of a B2BUA
Discussion :
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 adresses this selection on part of SA2. N1 needs to define the I-CSCF behavior, 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 statefull. 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 adressed 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 volonteers. Further limitations to the scope is needed,- ie 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 possibel 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 optionality, 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

ANNEX F: Document history

Document History	
23th October 2001	DRAFT v.1.0.0 dispatched to the TSG_CN4 mail exploder for comments. Comments to be addressed to: **Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support** MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.fr A deadline of a week was given to the CN4 delegates for e-mail comments on the draft report. **E-mail comments back by 8th November 2001**
9th November 2001	Draft report v2.0.0 placed on the FTP serve
04th November 2001	Version 2.0.0 approved at CN4#11 Meeting in Cancun, MEXICO – Made version 3.0.0. Placed to server as the official meeting report.