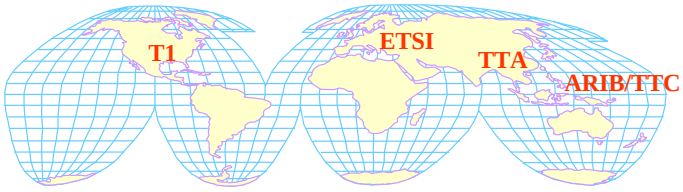
3GPP TSG CN Plenary Meeting #14 **NP-020021**
6th – 8th March 2002. Jeju, Korea.

Source:	TSG CN WG4
Title:	Meeting reports after CN#14
Agenda item:	6.4.1
Document for:	Information

Introduction:

This document contains 2 TSG CN WG4 meeting reports after CN#14: TSG CN WG4 #12 and TSG CN WG4 # 12bis. The documents are forwarded to TSG CN Plenary meeting #15 for information.



Third Generation Partnership Project

Draft Meeting REPORT ~~v1~~v2.0.0
3GPP TSG_CN_WG4#12

Sophia Antipolis, FRANCE
28th January – 1stFebruary 2002

ETSI - European Telecommunications Standards Institute

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** (N4-020010). Some evening session added.

2 Document Allocation

The document allocation (N4-020002) was **approved**

3 Meeting Reports

3.1 Approval of the report of CN4 #11, Cancun, MEXICO

The Cancun meeting report CN4#11 (N4-020006) was **approved**. The document was raised to version 3.0.0. and will be uploaded to the server.

3.2 Summary report of CN #14 & SA #14, Kyoto, December 2001

The summary report (N4-020004) presented by chairman **was noted**.

4 Liaison Statements

Document: **N4-020111**
Title: Liaison Statement on Mobility Management event reporting in the PS domain
Source: CN2
Presented: Mr. Ian Park, chairman
Discussion:

Decision: **Noted**

Document: **N4-020113**
Title: Liaison to SA, CN on inclusion of LI material in other WGs' specifications
Source: CN
Presented: Mr. Ian Park, chairman
Discussion:

- CN4 has sent a LS to SA3 LI in October asking for guidance, but CN4 never got response.
- Ericsson: 23.153 doesn't have any details about LI.
- LS to CN & SA3 N4-020186

Decision: **Noted**

Document: **N4-020186**
Title: Liaison Statement to SA3 on impact of Lawful Interception requirements on CN4 specifications
Source: CN4
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Approved**

Document: **N4-020114**
Title: Reply to reply to LS “Update of Iu-Flex status” TSGR3#24(01) 3067
Source: SA2
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Noted**

Document: **N4-020121**
Title: Liaison Statement on MSISDN Address resolution for MMS using MAP operations
Source: T2
Presented: Mr. Ian Park, chairman
Discussion:

- T2 kindly requests guidance on how to ensure IMSI resolution based on Global title (MSISDN) for an MMSE.
- T2 has identified 2 possible operations in the MAP specification (TS 29.002 V4.1.0) to resolve the IMSI for a given MSISDN.
    - 1. MAP-SEND-ROUTING-INFO-FOR-SM
    - 2. MAP-SEND-IMSI
- Nokia: SEND_IMSI is more appropriates.
- Ericsson: We are favour of SRI_SM because of the similarity of function.
- France Telecom: We shouldn't introduce modifications to the SRI_SM because of the impact on the existing SMS.
- Ericsson: T2 are asking for an provisional solution.
- LS to T2 (N4-020187).

Decision: **Noted**

Document: **N4-020187**
Title: LS to T2 on MSISDN Address resolution for MMS using MAP operations
Source: CN4
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-020122**
Title: Liaison Statement Reply to SyncML with Follow-Up Questions
Source: T2
Presented: Mr. Michael Young,Motorola
Discussion:

Decision: **Noted**

Document: **N4-020125**
Title: Release of In-Process Stage 1 Specification to SA1 for Review and Continuing Development
Source: T2
Presented: Mr. Michael Young,Motorola
Discussion:

Decision: **Noted**

Document: **N4-020148**
Title: Liaison Statement on Impacts of Subscriber and Equipment Trace
Source: SA5
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson: Do we need to generate a WID for the CN4?
    - Nokia has provided CRs to solve the problems.

- Nokia: N4-020059 for the Cx interface & N4-020034 & N4-020169 for the Mc interface. There are also Ls from SA5 in 119 & 149.

Decision: **Noted**

Document: **N4-020151**
Title: Reply to Liaison Statement on Trace Activation Mechanism in SIP
Source: CN1
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- May be some work to do on the Cx interface protocol if SA5 want to have the HSS trigger the S-CSCF to do some SIP tracing.

Decision: **Noted**

Document: **N4-020164**
Title: Reply LS on Sr interface between Application Server and MRFC
Source: SA2
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Noted**

Document: **N4-020165**
Title: LS on Sr interface between Application Server and MRFC
Source: CN1
Presented: -
Discussion:

Decision: **Noted**

5 Work Item Management

6 Release 5

6.1 Subscriber data handling for the IMS

6.1.1 HSS – CSCF (Cx) interface

Document: **N4-020118**
Title: Reply LS on Sr interface between Application Server and MRFC
Source: SA5
Presented: Mr. Ian Park, chairman
Discussion:

Decision: **Noted**

Document: **N4-020123**
Title: Answer to Liaison Statement on Cx User Profile
Source: GUP
Presented: Mrs. Johanna Wild, Motorola
Discussion:

- Nokia: The GUP ad hoc work is not yet mature enough to use for the Cx interface protocol
  - Ericsson & Motorola have a different view and point to contributions (0056, 0094, 0100 & 0136) we have here.
- Reply LS N4-020197

Decision: **Noted**

Document: **N4-020197**
Title: LS to T2 on Cx User Profile
Source: CN4
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-020124**
Title: Status of the Generic User Profile Work
Source: GUP
Presented: Mrs. Johanna Wild
Discussion:

- Nortel Networks: Did CN4 had any involvement in the later stages of the joint GUP ad hoc work, bearing in mind the possible impact on the Cx interface.
    - No there wasn't.

Decision: **Noted**

Document: **N4-020147**
Title: Comments on UP-010141 and relationship of GUP to Subscription Management
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-020055**
Title: Base protocol commands not used
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Proposes to add an explicit statement that certain operations shall not be used.
    - Ericsson: The extra text is unnecessary.
    - Lucent: Putting the text in a separate paragraph is excessive.
- CN4: Proposed text didn't accept by meeting.

Decision: **Rejected**

Document: **N4-020056**
Title: User Profile
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- CN4 agreed on the principle of including the UML description in annex A of 29.228. Ericsson: For the opening sentence of chapter 2 to be changed to reflect that what we want to define is the structure of data transferred between HSS & S-CSCF, not as it is stored in either entity.
- In section 2.3, figure C, the lower bound on the number of filter criteria and application servers should be 1 instead of 0.
- Ericsson: At the moment filter criteria are taken as always being enabling.
- France Telecom: In 23.218 section 6.8.1.3, which refers to filter criteria besides the ones listed here: SIP header and media type. Why aren't those listed here?
    - Nokia: The text of 23.218 says that criteria can be "e.g. based on SIP header or media type".
- On the use of chapters 3 – 6 to update text in 29.229.
    - Ericsson have a proposal in N4-020094
    - Nortel have a contribution in N4-020100
    - Nokia have a proposal in N4-020136.
- CN4 agreed: Use of AVPs was rejected in favour of XML.

    - Ericsson: There is information in the AVP description which could usefully be incorporated in the UML description.
- CN4: Criteria always being enabling
    - More study is needed, how we could use inhibiting criteria.

Decision: **UML accepted,but we will use XML instead of AVPs for detailed profile description**

Document: **N4-020100**
Title: User Profile
Source: ~~Nokia~~Nortel Networks
Presented: Dr. Daniel Warren, Nortel Networks
Discussion:

- ~~-~~ Same approach as in Ericsson contribution N4-020094

Decision: **Noted**

Document: **N4-020136**
Title: User Profile
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Lucent & Motorola: Favour of using XML as described for the GUP work.
    - Nokia has serious concerns about whether we would be able to deliver by March 2002 if we go with XML
    - Nokia accepts the majority view.

Decision: **Rejected**

Document: **N4-020057**
Title: S-CSCF change
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Nokia: We found in 23.228 section 4.3.3.4 a requirement to have only one S-CSCF, so we have to consider the situation identified in this contribution.

Decision: Postponed to joint session with CN1

Document: **N4-020059**
Title: Trace
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- CN4: We use the same approach for trace profile information as we did for user profile information: UML and XML.

Decision: **UML accepted, but we will use XML instead of AVPs for detailed profile description**

Document: **N4-020094**
Title: User Profile for Cx interface
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- Proposal: We should use the XML data description method developed by the GUP ad hoc.
- Nortel Networks: The work we do for the Cx user profile definition can be used as concrete definitions for part of the GUP definitions.
- Nokia: We would like to see a definition of the index parameter in the XML schema.
    - Editor offers to withdraw the parameter, because it's still under development.
    - Accepted by Nokia
- CN4: Agreed to add the reference to the DDF in Annex D to be removed, because the DDF is still work in progress.

- The XML schema source will be associated with 29.228 as a separate file in the folder, but we will separate the normative and informative material into two different annexes

Decision: **Principle agreed**

Document: **N4-020185**
Title: Addition of multimedia information elements
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- France Telecom: Subscribed media needs to be stored in S-CSCF as well as in HSS.

Decision: **Revised to N4-020196**

Document: **N4-020196**
Title: Addition of multimedia information elements
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed without presentation**

Document: **N4-020060**
Title: De-registering service profiles
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Lucent: We shouldn't document the behaviour of entities in the tables of message contents.
    - Editor: The behavioural definition will be moved to a set of FSM descriptions.

Decision: **Agreed**

Document: **N4-020062**
Title: S-CSCF Selection for unregistered user
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

Decision: **Agreed**

Document: **N4-020161**
Title: TS 29.228 v1.0.1
Source: Editor
Presented: Mr. Miguel-Angel Pallares
Discussion:

Decision: **Noted**

Document: **N4-020162**
Title: TS 29.229 v1.0.1
Source: Editor
Presented: Mr. Miguel-Angel Pallares
Discussion:

- Lucent asks for examination of the use of "optional" and "conditional" define the requirements for presence of IEs

Decision: **Noted**

Document: **N4-020095**
Title: Network initiated de-registration
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares

Discussion:

Decision: **Principle agreed**

Document: **N4-020137**
Title: Deregistration reason
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Proposal: To use an enumerated type for the deregistration reason, so that the behaviour of the S-CSCF can be differentiated for different deregistration reasons.
    - Nokia: The S-CSCF can translate an enumerated deregistration reason to a text string for relay to the user
- Chairman: we want to do two jobs we use two parameters:
    - 1. a text string to send to the user
    - 2. an enumerated type to influence the behaviour of the S-CSCF.
    - Nokia: These can be grouped into a compound deregistration reason AVP.

Decision: **Principle agreed**

Document: **N4-020098**
Title: Evolution of Cx interface specifications
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- Proposal: Proposes to hold off from closing the CN4 Cx specifications until the IETF specifications are stable, while contributing actively to the development of the IETF specifications.
    - Proposal supportted by Ericsson, Lucent, Nortel Networks and Motorola
- Nokia: The individuals contributing to IETF could express views opposed to what the same companies put in CN4.
- Motorola: We need to strike a careful balance between early delivery of specifications and improving the quality of the specifications by waiting for IETF work to mature.
- 3G Hutchison: Could we allocate a list of the open issues which need to be resolved in order to assure the completeness of the protocol specifications.
    - Editor: A list would be useful.
    - Nokia: The work in CN4 is much more nearly complete(90 – 95%). We can't simply put in a request to IETF to resolve the list of open issues
- Chairman: We need to look carefully at inter-version compatibility handling when we define the Rel-5 version of our protocol.
- Nokia: The current protocol definition gives us all the capability we need for cross-version compatibility.
    - Nortel Networks: The one improvement we could make is to include a version indicator in the definition of the AVP, which would remove the delay of getting a new AVP identifier from IANA.
    - Nokia is against this approach.
- Agreement with the Nokia and other companies later in the meeting.

Decision: **CN4 will wait until the next IETF meeting (17-22 March) to see whether the draftJohansson-AAA-Diameter-MM-App is accepted as a WG item in the AAA WG. If this happens, we will align TS 29.229 with that draft, subject to maintaining the integrity of the 3GPP requirements; there will not be an open mandate to accept every change which the AAA WG make. If this does not happen, we close our definition as proposed in *N4-020063 (below)*. If we are aligning with the draft accepted by the AAA WG then implementers will have to implement only one protocol, rather than the two which would come from us striking out on our own.**

Document: **N4-020063**
Title: IETF Cx work relation to 3GPP
Source: Nokia
Presented: Mr. Mikko Aittola, Nokia
Discussion:

- Proposal:
    - CN4 define all the specifications for Cx in CN4, and look to defining compatibility with the IETF specifications when they arrive.

Decision: **Noted**

6.1.2 SLF - CSCF (Dx) interface

Document: **N4-020160**
Title: Network initiated de-registration
Source: Ericsson
Presented: Mr. Miguel-Angel Pallares, Ericsson
Discussion:

- Nokia: Do the behaviour of described here is completely standard Diameter redirector function?
    - Editor: It is an extension.
- Nortel Networks: We need to extend the title & scope of 29.228 & 29.229 to reflect the coverage of the Dx interface as well as the Cx interface.
- Nokia: The SLF has to be able to decode the syntax of all Cx requests to the level of being able to find the user identity, in order to work out which HSS address to supply.
    - Editor: The extra text is added to make this clear.
- Principles are agreed, but anyway it needs further development is needed.

Decision: **Agreed**

6.2 AMR Wideband

Document: **N4-020117**
Title: Reply to Liaison Statement on Handling of AMR-WB in Core Networks
Source: SA4
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Noted**

Document: **N4-020120**
Title: Liaison Statement on AMR-WB and Charging
Source: SA5
Presented: Dr. Daniel Warren, Nortel Networks
Discussion:

Decision: **Noted**

Document: **N4-020027**
Title: Completing AMR-WB WI
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson: There are other restrictions besides the ones explicitly listed in this contribution.
    - 1. Codec selection & GSM-UTRAN interworking doesn't deal with handover UTRAN-GSM. Seppo responds that mid-call negotiation procedures of TrFO deal with this.
    - 2. The TFO adaptation work is not so simple as Nokia say; this point was noted.
    - 3.If there is interworking between mobile & fixed networks, AMR-WB end to end may be possible, so drop back to narrowband is not appropriate. This will be covered by revision to the Nokia CR on 23.153.
    - 4. Lawful interception may require the intercept path to be wideband. Seppo responds that we should indicate to SA3 LI subgroup that special measures may be needed to intercept wideband.

Decision: **Principle agreed**

Document: **N4-020028**
CR: 23.153-030
Title: Codec fallback in TrFO Call Establishment to External Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Clarification is needed that we can have end to end widebandif the externalnetwork uses a G.722 codec

Decision: **Revised to N4-020199**

Document: **N4-020199**
CR: 23.153-030r1
Title: Codec fallback in TrFO Call Establishment to External Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Revised to N4-020271**

Document: **N4-020271**
CR: 23.153-030r2
Title: Codec fallback in TrFO Call Establishment to External Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: Agreed

Document: **N4-020200**
Title: Proposed LS to SA3 on AMR-WB and Lawful Interception
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Revised to N4-020268**

Document: **N4-020268**
Title: LS to SA3 on AMR-WB and Lawful Interception
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Approved**

Document: **N4-020146**
Title: Proposed Liaison Statement on Handling of AMR-WB in Core Networks
Source: Vodafone
Presented:
Discussion:

Decision: **Revised to N4-020269**

Document: **N4-020269**
Title: Liaison Statement on Handling of AMR-WB in Core Networks
Source: Vodafone
Presented:
Discussion:

Decision: **Approved**

6.3 Camel 4

Document: **N4-020007**
CR: 23.018-082
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

Decision: **Revised to N4-020260**

Document: **N4-020260**
CR: 23.018-082r1
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

- CN4 Email approval
  - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020008**
CR: 23.079-016
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

- CN4 Email approval
  - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020009**
CR: 23.083-009
Title: Introduction of CAMEL Phase 4
Source: Vodafone
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

- CN4 Email approval
  - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020014**
CR: 23.016-021
Title: Collective CR on 23.016
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

- Requires to update the base version (cover sheet)
- CN4 Email approval
  - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020194**
CR: 23.008
Title: Collective CRs against 23.008 for CAMEL phase4
Source: Alcatel
Presented: Mrs. Veronigue Belford, Alcatel
Discussion:

Decision: **Revised to N4-020243**

Document: **N4-020243**
CR: 23.008
Title: Collective CRs against 23.008 for CAMEL phase4
Source: Alcatel
Presented: Mrs. Veronigue Belford, Alcatel
Discussion:

- CN4 Email approval
  - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020190**
CR: 23.018-099
Title: Correction to CAMEL4 handling
Source: Vodafone
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

- Agreed by CN4
- CR will be added to 23.018 collective CR

Decision: **Endorsed by CN4**

Document: **N4-020195**
CR: 23.008-040
Title: Criteria for MT-SMS
Source: Alcatel
Presented: Ms. Ruth Hewson, Vodafone
Discussion:

- Agreed by CN4
- CR will be added to 23.008 collective CR

Decision: **Endorsed by CN4**

Document: **N4-020159**
CR:
Title: Si-Interface: HSS to IM-SSF Interface
Source: Alcatel
Presented: Ms. Angelica Remoquillo, Lucent
Discussion:

- Nortel Networks: Introduction of new Map operation would be a clearer solution.
  - Alcatel: There is an implementation advance to combine the interfaces (Sh & Si). Only a subset of subscriber data (CSI) needs to be transferred.
- Siemens: Do we really need to use UpdateLocationIMS to trigger the subscriber data transfer – could we use the AnyTimeSubscriptionInterrogation?
  - Lucent concluded that it is not appropriate, because the ATSI response can carry only one CSI element
- Motorola: We would need a more time to check this back at home. There could be a knock-on effect to the Cx interface work, because of the impact on the Diameter protocol.
  - Nortel Networks supports the idea. CN4 should have time to look at the details and discuss and conclude at the next CN4 meeting.
-

Decision: **Postponed to CN4#13**

Document: **N4-020191**
CR: 29.002-404
Title: Correction on MT SMS SDL
Source: Alcatel
Presented: Mrs. Veronigue Belford, Alcatel

Discussion:

- Agreed by CN4
- CR will be added to 29.002 collective CR

Decision: **Endorsed by CN4**

Document: **N4-020192**
CR: 23.078
Title: Inclusion of ODB data in ATM
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

Decision: **Noted**

Document: **N4-020193**
CR: 29.002-374r1
Title: Inclusion of ODB data in ATM
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

Decision: **Revised to N4-020263**

Document: **N4-020263**
CR: 29.002-374r2
Title: Inclusion of ODB data in ATM
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

- Will be included in Camel phase 4 collective CR to 29.002.

Decision: **Endorsed by CN4**

Document: **N4-020201**
CR: 23.078
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- Siemens: Do we need a CR against 23.060 to show where these procedures are called.
  - Siemens will draft a CR against 23.060
- CR will be revised and handle only in CN2
- The additional components of LocationInformationGPRS (geodeticLocationInfo and currentLocationRetrieved) aren't reflected in the current draft of 23.078 (subclause 7.6.1.2.2) I will check this in the current draft of 23.078 and add if necessary to the 23.078 CR.
- Siemens: A statement that the PDP context info 11.3.4.1.2 & 11.3.5.1.2 should be present only if subscriber state is requested.
  - Agreed by meeting
- The "C" against the subscriber state in 11.3.4.1.2 to be made S rather than C.
  - Agreed by meeting
- Alcatel: The names in the PDP context info table to be aligned with the rest of 23.078.
  - Agreed by meeting
- Alcatel points to impact on 23.008 for definition of MG-CSI.
  - This will have to be treated at the next meeting.

Decision: **Noted**

Document: **N4-020202**
CR: 29.078
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone

Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-020203**
CR: 29.002-350r2
Title: Enhancements to subscriber information reporting in the PS domain
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- Siemens: Could we use the LocationInformation data type to carry location information for the PS domain if the data will fit it. This would be useful if we want to do location info retrieval SCF – HLR with R99 protocol level for a GPRS-only subscriber.
    - CN2 decided in CN2#21 that they wanted to use the distinct data type.
- CN2 will revised the CR andit will be a part of collective CR 29.002

Decision: **Noted**

Document: **N4-020204**
CR: 23078
Title: Transferring the MS classmark and IMEI to the gsmSCF
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- CN2 chairman: We send the Initial DP for the VT case before the MS responds to paging, so we can't send the MS classmark 2 in the VT case.
    - Nokia points to the same problem for MT SMS as for MT call. Further, the stage 1 CR doesn't show a requirement for the IMEI/classmark to be sent for SMS handling.
- Orange France points to difference between handling for location reporting control (no test for report on change of service area) from the CS handling. We should also add the handling for the case where the location report doesn't include location determined.
- CN2 chairman: The revised version is included in the draft 23.078 if SA1 approve the stage 1 CR.

Decision: **Noted**

Document: **N4-020205**
CR: 29.078
Title: Transferring the MS classmark and IMEI to the gsmSCF
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- CN2 chairman gives an assurance that postponement doesn't mean that it will be pushed out to Rel-6!

Decision: **Postponed**

Document: **N4-020206**
CR: 29.002
Title: Transferring the MS classmark and IMEI to the gsmSCF
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- CN2 chairman gives an assurance that postponement doesn't mean that it will be pushed out to Rel-6!

Decision: **Postponed**

Document: **N4-020207**
CR: 22.078
Title: Transferring the MS classmark and IMEI to the gsmSCF

Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- Siemens would prefer the stage 1 to reflect accurately the requirement to retrieve the IMEI with SV. the earliest possible decision is needed in SA1 on this CR, so that the editing of 23.078 & 29.078 can proceed.
    - Alcatel: The 23.078 & 29.078 CRs could also be submitted separately to CN #15.

Decision: **Noted**

Document: **N4-020208**
CR: 22.078
Title: Transferring the MS classmark and IMEI to the gsmSCF
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

    - Ericsson: we shouldn't have to page the MS every time to retrieve the IMEI.
- Outcome in SA1 is needed

Decision: **Conditionally agreed**

Document: **N4-020256**
CR: 23.018
Title: Continue Without Leg2 at DP2
Source: CN2
Presented:
Discussion:

- CN4 Email approval
    - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020257**
CR: 23.018
Title: Continue Without Leg2 at DP2 for MF calls
Source: CN2
Presented:
Discussion:

- CN4 Email approval
    - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020258**
CR: 23.018
Title: Continue Without Leg2 at DP12 for MT and VT calls
Source: CN2
Presented:
Discussion:

- CN4 Email approval
    - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

Document: **N4-020259**
CR: 23.018
Title: Remodelling of CAMEL_ICH_LEG2_MSC
Source: CN2
Presented:
Discussion:

- CN4 Email approval
    - Close for abjections 17:00 CET Tue 26th February

Decision: **Noted**

6.4 Network domain security

Document: **N4-020116**
Title: Protocol Specification of the Ze-interface
Source: SA3
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Noted**

Document: **N4-020112**
Title: Liaison statement on Protocol Specification of the Ze-interface
Source: CN
Presented: Mr. Ian Park, chairman
Discussion:

- CN4 can only wait a further information from SA3.

Decision: **Noted**

Document: **N4-020270**
Title: Liaison statement on MAP security Issues
Source: SA3
Presented: Mr. Ian Park, chairman
Discussion:

- SA3 welcomes the proposal for CN4 experts to attend the SA3#22 meeting in Bristol, UK, 25-28 January 2002. SA3 believe that a half day joint session with CN4 experts can be accommodated without extending the meeting.
  - CN4 chairman proposed 27th February afternoon.

△ **MCC will send the information to CN4 mailing list ASAP**

Decision: **Noted**

6.5 Intra Domain connection of RAN nodes to multiple CN nodes

Document: **N4-020070**
CR: 23.012-008
Title: Relaying of SendIdentification when IuFlex is applied
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Revised to N4-020188**

Document: **N4-020188**
CR: 23.012-008r1
Title: Relaying of SendIdentification when IuFlex is applied
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed without presentation**

6.6 GPRS

Document: **N4-020150**
Title: Liaison Statement on " IP version interworking on the transport plane"
Source: SA2
Presented: Mr. Einar Oltedal, Ericsson

Discussion:

Decision: **Noted**

Document: **N4-020166**
CR:
Title: Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN
Source: SA2
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Reply LS to: SA2 cc: CN1; N4-020251 (Proposed LS will be handled in CN4#12bis)

Decision: **Noted**

Document: **N4-020029**
CR: 29.060-292
Title: Support of IPv4 and IPv6 node addresses in Core Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Vodafone: We need to statement in 23.060 or 29.060 how the SGSN will know the IP-version capabilty of neighbour SGSNs.
- NEC: The PDP context IE contains only one GSN address for each of control plane and user plane.
    - Ericsson, Fujitsu, Alcatel: This is enough.
- Alcatel: Do we have any cases that we need v4 address, but we have only a v6 address available.
    - The charging gateway can correlat the 2 addresses
    - Alcatel: If charging gateway can make a change if needed, that is fine for us.
- Alcatel: We would like to PDP context to be extended to allow the use of two addresses per plane.
    - Nokia: We wanted to do minimal changes.
- If we use only a one address, it's better to use an existing GSN address field.
- Nokia: We have to take care about backward compatibility where do we have a Rel-4 entity using v6.
- NEC wants to clarify the need for further study in section 7.7.29
- Lucent: We would like to see layout improvement.
- Lucent is concerned about the use of "conditional" marking. They think it could cause the interworking problems.
- Lucent can't accept CR in CN#12.

Decision: **Revised to N4-020254**

Document: **N4-020254**
CR: 29.060-292r1
Title: Support of IPv4 and IPv6 node addresses in Core Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson: LS attachment from SA2 (S2-020161) raises the concern of the backward compatibility problem if pre-release 5 node uses only Ipv6.
- Note added in section 7.3.29
    - "Interoperability problems can arise if a pre Release 5 GSN uses Ipv6 transport."

Decision: **Document will be revised as N4-020272 and postponed to CN4#12bis**

Document: **N4-020115**
CR:
Title: LS on external Network Assisted Cell Change
Source: SA2
Presented: Mr. Einar Oltedal, Ericsson

Discussion:

Decision: **Noted**

Document: **N4-020152**
Title: LS on external Network Assisted Cell Change
Source: GERAN 2
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- A draft CR in N4-020071 made by Ericsson.
- Vodafone: We would prefer to see GTP used for transparent transport.
  - Ericsson agreed
- Response LS to SA2 & GERAN (N4-020267)

Decision: **Noted**

Document: **N4-020267**
Title: LS to SA2 & GERAN2 on external Network Assisted Cell Change
Source: CN4
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

Decision: **Approved**

6.7 LCS in the PS domain

Document: **N4-020139**
CR: 29.002-381r1
Title: Introduction of the “Requestor ID
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- Ericsson: Why the ASN.1 comment specifies the use of the empty requestor ID if the client provides no requestor ID?
  - NTC: The stage 2 allows the use of the empty ID to distinguish between anonymous access and the inability of the network to carry the requestor ID.
  - Meeting agreed to remove the ASN.1 comment.
- Ericsson: We should recommend to SA2 that the feature of requestor ID could be carried to pre-Rel5 mobiles by putting it into the LCS client name contained in LSC client ID. This can be put informally to SA2.
  - Nokia supports Ericsson
  - NTC: The LCS Client ID parameter may be too short to hold the requestor ID.
- Meeting agreed in principle on the proposal by Ericsson.

Decision: **Revised to N4-020266**

Document: **N4-020266**
CR: 29.002-381r2
Title: Introduction of the “Requestor ID
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: **Approved without presentation**

Document: **N4-020045**
CR: 24.030-012
Title: Introduction of the “Requestor ID
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: **Approved**

Document: **N4-020140**
CR: 24.080-015
Title: Introduction of the “Requestor ID
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: **Approved**

6.8 Service change and UDI fallback

Document: **N4-020178**
CR:
Title: Service change and fallback for UDI/RDI multimedia calls
Source: Ericsson
Presented: Mr. Patrice Hede, Ericsson
Discussion:

- CN1 wants to comments and feedback about the section 3.8.3
- Siemens: There are need to describe to describe the handling if the call passes into a network which doesn't support BICC.
    - Ericsson: The gateway switch will cause drop back to speech.
    - Siemens: It might be better to continue the call as a data bearer service with multimedia carried on top of it.
    - Ericsson: If we can't do codec negotiation, then we don't know what the distant terminal's capability is and the safest approach is drop back to speech.
- Siemens: In 3.8.3.3 we should distinguish clearly between the behaviour of the terminating MS and the behaviour of the terminating MSC.
    - Accepted by meeting
- Siemens: In 3.8.3.3, reference to "normal mechanism" should be clarified. Further, if the speech codec is first choice, we should show both the speec codec & clear mode codec as being inserted in the codec list.
    - Accepted by meeting
- Siemens: Other clarifications are needed which are better to do in 23.153.
    - A draft CR will be made by Siemens & Ericsson.

Decision: **Noted**

Document: **N4-020074**
CR:
Title: Adding of the clear mode codec to Q/765.5
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Noted**

6.9 Any other business

6.9.1 Global Text Telephony

Document: **N4-020168**
CR:
Title: GTT enhancements in Bearer Independent Architecture
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Noted**

Document: **N4-020032**

CR: 23.205-018
Title: GTT enhancement
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Postponed to e-mail discussion
- 26th of Feb. is a deadline for objections
- Will be revised to N4-020255

Decision: **Postponed to CN4#12bis**

Document: **N4-020032**
CR: 23.205-018
Title: GTT enhancement
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- A same procedure as for N4-020255.
- Will be revised to N4-020265

Decision: **Postponed to CN4#12bis**

6.9.2 Bearer independent architecture

Document: **N4-020119**
CR:
Title: Liaison Statement on Trace Activation Mechanisms on the Mc and Cx Interfaces
Source: SA5
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Postponed to CN4#12bis**

Document: **N4-020149**
CR:
Title: Liaison Statement on Availability of IMSI and IMEI
Source: SA5
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Postponed to CN4#12bis**

Document: **N4-020264**
Title: Proposed Response Liaison Statement to SA5 on Trace and Availability of IMSI and IMEI
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Nokia propose to postpone conclusion on this and the SA5 inputs to the CN4 #12bis meeting

Decision: **Postponed to CN4#12bis**

Document: **N4-020163**
CR:
Title: Liaison Statement on Availability of IMSI and IMEI
Source: RAN3
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Noted**

6.9.3 Service change & UDI fallback

6.9.4 SMS

6.9.5 New ASN.1 version

Document: **N4-020158**
Title: New ASN.1 for 29.002 & 29.078
Source: France Telecom
Presented: Mr. Olivier Duboission, France Telecom
Discussion:

- X.208 & X.209, the ASN.1 specs which we use at the moment, are due for withdrawal this year. The ASN.1 versions (1994 & 1997) which replaces them are also due to be replaced by a new version which will be released this year.
- we should migrate away from the use of the MACRO notation and the ANY type for Release 5 29.078, 29.002 & 24.080.
- The trickiest part of the migration would be the combination of the ASN.1 module which defines operation & error codes into the modules which define the operation and error types.
- A source offered to write the CRs against 29.078, 29.002 & 24.080 for us.
    - Offer was accepted.

Decision: **Noted**

7 UMTS Release 4 & Release 99 maintenance

7.1 Location Services

Document: **N4-020132**
CR: 29.002-378
Title: Rel99 LCS CR to 29.002 for mobile without IMSI
Source: Lucent
Presented: Mr. Nigel Berry, Lucent
Discussion:

Decision: **Withdrawn**

Document: **N4-020184**
CR:
Title: LCS for SIMless E911 calls
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- The document is written in response to Tdoc N4-020132 (above) which proposes modification to MAP LCS-messages for SIMless E911 calls.
- Siemens believe that these modifications are not needed.
- Nokia and Ericsson supports Siemens proposal.

Decision: **Noted**

7.2 Core Network Security

7.3 Bearer independent architecture

Document: **N4-020054**
CR:
Title: Proposed CRs, Handover Indication
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens

Discussion:

- It is proposed to discuss the proposed changes and to agree in principle on the introduction of relocation specific indications within the 3GUP package to support the mechanism described in TS 25.415 and to discuss on the changes actually required based on the attached CR.
    - Ericsson has a different view: It breaks the principle of the MSC server controlling the media gateway.
- Seppo is not prepared to accept the solution for Rel-4 or earlier, because the problem is not so big.
- Principle of the document is rejected
- CN4 couldn't agree the changes RAN3 supposed.
    - LS to RAN3 N4-020215

Decision: **Rejected**

Document: **N4-020215**
Title: LS to RAN3 on treatment of handover indication
Source: CN4
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-020076**
CR: **23.205-020**
Title: (G)MSC restoration
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Agreed, Also mirror CR for Rel-5 23.205-021 agreed**

Document: **N4-020175**
CR: **23.205-022r1**
Title: Correction of Bearer Modification Handling
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

- Some editorial changes have to be made.

Decision: **Revised to N4-020216**

Document: **N4-020216**
CR: **23.205-022r2**
Title: Correction of Bearer Modification Handling
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Agreed without presentation, Also mirror CR for Rel-5 23.205-023r2 agreed**

Document: **N4-020198**
CR: **23.232-026r1**
Title: Correction of Bearer Modification Handling
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Revised to N4-020218**

Document: **N4-020218**
CR: **23.232-026r2**
Title: Correction of Bearer Modification Handling

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

Decision: **Agreed without presentation, Also mirror CR for Rel-5 23.232-027r1 agreed**

Document: **N4-020126**
CR:
Title: Liaison Statement on RANAP Indication Of Modify Support Of Link Characteristics
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

- Output LS to RAN3, cc SA2.

Decision: **Revised to N4-020220**

Document: **N4-020220**
CR:
Title: Liaison Statement on RANAP Indication Of Modify Support Of Link Characteristics
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive
Discussion:

Decision: **Approved**

Document: **N4-020213**
CR: **29.232-024r2**
Title: Naming convention for TDM resources
Source: Nokia, Ericsson
Presented:
Discussion:

Decision: **Postponed to CN4#12bis**

7.4 TrFO

Document: **N4-020153**
CR:
Title: LS on the introduction of GERAN Iu mode
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Ericsson asks more time to check attached CR.
- Decision of the CR is made in next CN4 meeting.
- Reply LS to GERAN2 N4-020229

Decision: **Postponed to CN4#12bis**

Document: **N4-020229**
CR:
Title: LS to GERAN2 on the introduction of GERAN Iu mode
Source: CN4
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: **Approved**

7.5 GPRS & GTP enhancements

Document: **N4-020085**
CR:
Title: End User Address in Create PDP Context Response

Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Proposal: For a static PDP address the Create PDP Context Response message shall contain the End User address Information Element with an empty PDP Address (Length=2). Siemens proposal on CN4 meeting #11, is in line with this interpretation (CR 280, N4-011368).
- Nokia would not accept the change being roll back to R99.
- Motorola: This could cause interoperability problems, because of the definitions in R99.
- NEC & Motorola believes that there should be R99 Essential correction
    - Nokia don't believe R99 correction is necessary.
- Motorola can't accept Rel-4 (N4-020052) or Rel-5 (N4-020053) CRs if R99 CR is not accepted.
    - Siemens and Lucent can't support Motorola's opinion.
- Siemens proposed compromise: For R99 we add the note that problems has solved in Rel-4.
- After further discussion, Nokia agreed to consult back home about the acceptability of the CR for R99. After consultation, Nokia also accepted R99 CR as a critical correction

Decision: **Noted**

Document: **N4-020052**
CR: 29.060-298 Rel-4
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:

Decision: **Revised to N4-020236**

Document: **N4-020236**
CR: 29.060-298r1 Rel-4
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:

Decision: **Agreed, Also mirror CR 29.060-299r1 for Rel-5 agreed**

Document: **N4-020228**
CR:
Title: Clarification on PDP address field and end user address information element in create PDP context response
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Ericsson challenge the premise that there are lot of interoperation problems. Ericsson wants more evidences of that.

Decision: **Noted**

Document: **N4-020021**
CR:
Title: Definition correction for presense requirements of Information Element
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Nokia: The contribution is more useful than NEC (N4-020050) one.

Decision: **Postponed to CN4#12bis**

Document: **N4-020050**
CR:
Title: Re-define the attributions of GTP Information Element
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Postponed to CN4#12bis**

Document: **N4-020016, N4-020017, N4-020018**
CR:
Title: Correction on active PDP contexts handling after Inter-SGSN RAU and HLR Reset
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Ericsson: This is not needed if you have dynamic IP context.
    - Lucent and Siemens agree with Ericsson.

Decision: **Withdrawn**

Document: **N4-020022, N4-020023, N4-020024**
CR:
Title: Correction on active PDP contexts handling after Inter-SGSN RAU and HLR Reset
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

- Ericsson: It's not an essential correction.

Decision: **Rel-4 CR withdrawn, Rel-5 CR N4-020024 postponed to CN4#12bis**

Document: **N4-020026**
CR:
Title: Clarification on the use of the Teardown indicator IE
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

-

Decision: **Revised to N4-020244**

Document: **N4-020244**
CR:
Title: Clarification on the use of the Teardown indicator IE
Source: Motorola
Presented: Mr. Michael Young, Motorola
Discussion:

-

Decision: **Agreed without presentation**

Document: **N4-020082**
CR:
Title: Cause Codes in SGSN Context Response
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Lucent and Motorola are against the need of cause code, because the only trigger for the context deletion is theCancelLocation from the HLR to the old SGSN.

Decision: **Postponed to CN4#12bis**

7.6 Camel phase 3

Document: **N4-020133/N2-020087**
CR: 23.018-096 R99
Title: Correction on the Active Location Retrieval description
Source: Orange France
Presented: Mr. Mikhael Said, Orange France
Discussion:

- N4-020134/N2-020088 23.018-097 is a CR against Rel-4
- N4-020135/N2-020089 23.018-098 is a CR against Rel-5

Decision: **Agreed, Also mirror CRs for Rel-4 & Rel-5 are approved**

Document: **N4-020011/N2-020074**
CR: 29.002-371 R99
Title: Inclusion of complete ODB data in ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

Decision: **Revised to N4-020209**

Document: **N4-020209**
CR: 29.002-371r1 R99
Title: Inclusion of complete ODB data in ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

- N4-020210/N2-020075 29.002-372 is a CR against Rel-4
- N4-020013/N2-020076 29.002-373 is a CR against Rel-5
- The discribed data don't send between HLR-SGSN or HLR-VLR.

Decision: **Agreed without presentation**

Document: **N4-020012**
CR: 29.002-372 Rel-4
Title: Inclusion of complete ODB data in ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

-

Decision: **Revised to N4-020210**

Document: **N4-020210**
CR: 29.002-372r1 Rel-4
Title: Inclusion of complete ODB data in ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

Decision: **Agreed without presentation**

Document: **N4-020013**
CR: 29.002-373 Rel-5
Title: Inclusion of complete ODB data in ATSI and NSDC
Source: Siemens
Presented: Mr. Sumio Miyagawa, Siemens
Discussion:

-

Decision: **Agreed without presentation**

7.7 Handover

7.8 Any other business

7.8.1 Multicall

Document: **N4-020064**
CR: 29.002-382 R99
Title: Addition of Radio Resource List to the Forward Access Signalling operation
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

-

Decision: **Agreed, Also mirror CRs for Rel-4 29.002-383 ans Rel-5 29.002-384 agreed**

7.8.2 MAP protocol

Document: **N4-020067**
CR: 29.002-385 R99
Title: Correction to AC version of gprsLocationInfoRetrievalContex
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: **Agreed, Also mirror CRs for Rel-4 29.002-386**

7.8.3 Multiple Subscriber Profile

Document: **N4-020086**
CR: 23.018-092 Rel-4
Title: MSISDN in Provide Roaming Number in case of MSP
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- CN4 meeting decided to generate also R99 CR.
  - R99 CR will be N4-020230
- Vodafone: At least for Rel-5, the last condition should be CAMEL phase 3 or later**.** This will be discussed with CN2 experts.

Decision: **Revised to N4-020231**

Document: **N4-020230**
CR: 23.018-101 R99
Title: MSISDN in Provide Roaming Number in case of MSP
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Revised to N4-020261**

Document: **N4-020230**
CR: 23.018-101 R99
Title: MSISDN in Provide Roaming Number in case of MSP
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Agreed, as well as Mirror CRs for Rel-4 23.018-092r2 and Rel-5 23.018-093r1**

7.8.4 Basic Call Handling

Document: **N4-020172**

CR: 23.018-086r1 R99
Title: Handling of CUG calls in non-supporting networks
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

- Document presented in Cancun meeting
- Ericsson would prefer to see the analysis in the HLR of wheather the HLR supports CUG, as we have done for Rel-5.
    - Agreed by meeting.

Decision: **Revised to N4-020233**

Document: **N4-020174**
CR: 23.018-088r1 Rel-5
Title: Handling of CUG calls in non-supporting networks
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Revised to N4-020235**

Document: **N4-020233**
CR: 23.018-086r2 R99
Title: Handling of CUG calls in non-supporting networks
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Agreed, Also mirror CRs for Rel4 23.018-087r2 and Rel5 23-018-088r2 agreed**

Document: **N4-020088**
CR: 23.018-094 Rel-4
Title: Conditions for presence of Alerting Pattern in Complete Call
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- CN2 chairman: CAMEL phase 3 R99 is currently identical to CAMEL phase 3 Rel-4.
- The Complete Call can't carry the alerting pattern received from the gsmSCF in the VT handling, because the interworking for VT is between the gsmSCF and the VMSC.
- A CR to 23.078 is needed.
- Vodafone: We should describe the handling in the Complete_Call_In_MSC procedure in 23.018.
    - Ericsson will find out how to deal with this.

Decision: **Withdrawn, Also Rel-5 withdrawn**

7.8.5 Subscriber data handling

Document: **N4-020141**
CR: 23.016-022 R99
Title: Clarification on overlapping data
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

- Revision is needed to make clear that the HLR may send data to replace that for unsupported feature or service.

Decision: **Revised to N4-020240**

Document: **N4-020240**
CR: 23.016-022r1 R99
Title: Clarification on overlapping data
Source: Alcatel

Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Revised to N4-020252**

Document: **N4-020252**
CR: 23.016-022r2 R99
Title: Clarification on overlapping data
Source: Alcatel
Presented: Mr. Markus Berg, Alcatel
Discussion:

Decision: **Agreed, Also mirror CR against Rel-4 23.016-023r2 agreed**

8 GSM maintenance

8.1 MAP protocol

Document: **N4-020090**
CR: 09.02-A321 R98
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- See discussion of N4-020091~~An indication of SOLSA support isn't needed in Restore Data~~

Decision: **Revised N4-020245**

Document: **N4-020245**
CR: 09.02-A321 R98
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- See discussion of N4-020091~~An indication of SOLSA support isn't needed in Restore Data~~

Decision: **Agreed**

Document: **N4-020091**
CR: 29.002-388
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

- CN4 decided not to use SoLSA and IST support indicators. The long FTN support indicator might be useful.
- Siemens: Could we send all the support indicators, but the HLR needs only to note the information?
- Final decision of meeting is that all the parameters shall be added, but for some the description shall be different in order to show different behaviour

Decision: **Revised to N4-020246**

Document: **N4-020246**
CR: 29.002-388r1
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

~~-CN4 decided not to use SoLSA and IST support indicators. The long FTN support indicator might be useful.~~
- ~~Siemens: Could we send all the support indicators, but the HLR needs only to note the information?~~

Decision: **Agreed**

Document: **N4-020092**
CR: 29.002-389
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:
- See discussion of N4-020091

Decision: **Revised to N4-020247**

Document: **N4-020247**
CR: 29.002-389r1
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-020093**
CR: 29.002-390
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:
- See discussion of N4-020091

Decision: **Revised to N4-020248**

Document: **N4-020248**
CR: 29.002-390r1
Title: Incomplete description of Restore Data parameters
Source: Ericsson
Presented: Mr. Pompeo Santoro, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-020102**
CR:
Title: Codec-Info parameter length discrepency
Source: Nortel Networks
Presented: Dr. Daniel Warren, Nortel Networks
Discussion:
- Siemens can't accept to changes. Changes are backward incompatible. They have a solution in document N4-020179.

Decision: **Withdrawn**

Document: **N4-020179**
CR:
Title: Codec info parameter length clarification
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:
- Vodafone supports Siemens proposal.

- Principles accepted by CN4.

Decision: **Agreed**

Document: **N4-0201180**
CR: **09.02-A324**
Title: Codec info parameter length clarification
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- Mirror CRs for R99, Rel4 & Rel5 accepted
  - 29.002-401
  - 29.002-402
  - 29.002-403

Decision: **Agreed**

Document: **N4-020222**
CR: **09.02-A325 R96**
Title: ODB alignment
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- Mirror CRs for R97, R98 & R99 accepted
  - 09.02-A326 R97
  - 09.02-A327 R98
  - 29.002-405 R99

Decision: **Agreed**

Document: **N4-020226**
CR: **29.002-406 Rel-4**
Title: ODB alignment
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Revised to N4-020249**

Document: **N4-020249**
CR: **29.002-406r1 Rel-4**
Title: ODB alignment
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- Mirror CR for Rel-5 accepted
  - 29.002-407 Rel-5

Decision: **Agreed**

9 AOB

10 Update of the Work Plan

- **Postponed to CN4#12bis**

11 Future meetings

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

- In CN4#12 CN4 decided that meeting number #13 will be in Florida, USA.
- CN4 decided to allocate a CN4#12bis meeting in February.
  - Meeting will be in Helsinki starting 13th of February.
  -
- Joint meeting with SA3 about MAP security at the end of February

Date	Meeting	Venue	Host
6 – 8 March 2002	TSG-CN #15	Korea	TTA
8 – 12 April 2002	CN4 #13	Fort Lauderdale, Florida, USA	North American Friends of 3GPP
13 – 17 May 2002	CN4 #14	Amsterdam, NETHERLANDS	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	Biarritz, 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.

12 Output of CN4#11

12.1 Change Requests

Tdoc #	Title	Source
0013	CR 29.002-373 on Inclusion of complete ODB data for ATSI and NSDC	Siemens AG
0045	CR 24.030-012 (Rel-5) on Introduction of the “Requestor ID”	NTC
0064	CR 29.002-382 (R99) on Addition of Radio Resource List to the Forward Access Signalling operation	Nokia
0065	CR 29.002-383 (Rel-4) on Addition of Radio Resource List to the Forward Access Signalling operation	Nokia
0066	CR 29.002-384 (Rel-5) on Addition of Radio Resource List to the Forward Access Signalling operation	Nokia
0067	CR 29.002-385 (Rel-4) on Correction to AC version of gprsLocationInfoRetrievalContext	Nokia
0068	CR 29.002-386 (Rel-5) on Correction to AC version of gprsLocationInfoRetrievalContext	Nokia
0076	CR 23.205-020 (Rel-4) on (G)MSC restoration	LM Ericsson
0077	CR 23.205-021 (Rel-5) on (G)MSC restoration	LM Ericsson
0133	CR 23.018-??? (R99) on Correction on the Active Location Retrieval description	Orange France
0134	CR 23.018-??? (Rel-4) on Correction on the Active Location Retrieval description	Orange France
0135	CR 23.018-??? (Rel-5) on Correction on the Active Location Retrieval description	Orange France
0140	CR 24.080-015r1 (Rel-5) on Introduction of the “Requestor ID”	NTC
0180	CR 09.02-A324 (R98) on Clarification on CODEC-Info	Siemens
0181	CR 29.002-401 (R99) on Clarification on CODEC-Info	Siemens
0182	CR 29.002-402 (Rel-4) on Clarification on CODEC-Info	Siemens
0183	CR 29.002403 (Rel-5) on Clarification on CODEC-Info	Siemens
0188	CR 23.012-008r1 (Rel-5) on Relaying of SendIdentification when IuFlex is applied	Ericsson
0196	CR 23.008-038r5 (Rel-5) on Addition of multimedia information elements	Nokia, Ericsson, Hutchison 3G
0209	CR 29.002-371 (R99) on Inclusion of complete ODB data for ATSI and NSDC	Siemens AG
0210	CR 29.002-372r1 (Rel-4) on Inclusion of complete ODB data for ATSI and NSDC	Siemens AG
0216	CR 23.205-022r2 (Rel-4) on Correction of Bearer Modification Handling	LM Ericsson
0217	CR 23.205-023r2 (Rel-5) on Correction of Bearer Modification Handling	LM Ericsson
0218	CR 29.232-026r2 (Rel-4) on Correction of Bearer Modification Handling	LM Ericsson
0219	CR 29.232-027r1 (Rel-5) on Correction of Bearer Modification Handling	LM Ericsson
0222	CR 09.02-A325 (R96) on ODB alignment	Siemens
0223	CR 09.02-A326 (R97) on ODB alignment	Siemens
0224	CR 09.02-A327 (R98) on ODB alignment	Siemens
0225	CR 29.002-405 (R99) on ODB alignment	Siemens

0232	CR 23.018-093r1 (Rel-5) on MSISDN in Provide Roaming Number in case of MSP	Ericsson
0233	CR 23.018-086r2 (R99) on Handling of CUG calls in non-supporting networks	Vodafone Group plc
0234	CR 23.018-087r2 (Rel-4) on Handling of CUG calls in non-supporting networks	Vodafone Group plc
0235	CR 23.018-088r2 (Rel-5) on Handling of CUG calls in non-supporting networks	Vodafone Group plc
0236	CR 29.060-298r1 (Rel-4) on Clarification on PDP address field and end user address information element in create PDP context response	Siemens
0237	CR 29.060-299r1 (Rel-5) on Clarification on PDP address field and end user address information element in create PDP context response	Siemens
0238	CR 29.060-308 (R99) on Clarification on PDP address field and end user address information element in create PDP context response	Siemens
0244	CR 29.060-291r1 (Rel-5) on Clarification on the use of the Teardown indicator IE	Motorola
0245	CR 09.02-A321r1 (R98) on Incomplete description of Restore Data parameters	Ericsson
0246	CR 29.002-388r1 (R99) on Incomplete description of Restore Data parameters	Ericsson
0247	CR 29.002-389r1 (Rel-4) on Incomplete description of Restore Data parameters	Ericsson
0248	CR 29.002-390r1 (Rel-5) on Incomplete description of Restore Data parameters	Ericsson
0249	CR 29.002-406r1 (Rel-4) on ODB alignment	Siemens
0250	CR 29.002-407r1 (Rel-5) on ODB alignment	Siemens
0252	CR 23.016-022r2 (R99) on Clarification on overlapping data	Alcatel
0253	CR 23.016-023r2 (Rel-4) on Clarification on overlapping data	Alcatel
0261	CR 23.018-101r1 (R99) on MSISDN in Provide Roaming Number in case of MSP	Ericsson
0262	CR 23.018-092r2 (Rel-4) on MSISDN in Provide Roaming Number in case of MSP	Ericsson
0266	CR 29.002-381r2 (Rel-5) on Introduction of the “Requestor ID”	NTC
0271	CR 23.153-030r2 (Rel-5) on Codec fallback in TrFO Call Establishment to External Network	Nokia

12.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN4 #12 meeting:

TDOC N4-00xxxx	Subject	To	Cc	Attachment	Sent
N4-020186	Liaison Statement on Lawful Interception For OoBTC	SA3			4th Feb.
N4-020187	Answer Liaison Statement on MSISDN Address resolution for MMS using MAP operations	T2	SA2		4th Feb.
N4-020197	Answer to Liaison Statement on Cx User Profile	T2			4th Feb.
N4-020215					
N4-020220	Liaison Statement on RANAP Indication Of Modify Support Of Link Characteristics	RAN3	SA2	N4-011416, N4-011234, N4-011076	4th Feb.
N4-020229	Liaison Statement on Handover Indication solution	RAN3			4th Feb.
N4-020267	Response on LS on External Network Assisted Cell Change	GERAN2 SA2			4th Feb.
N4-020268	Liaison Statement on AMR-WB and Lawful Interception	SA3	SA4		4th Feb.
N4-020269	Proposed Liaison Statement on Handling of AMR-WB in Core Networks	SA4	SA1		4th Feb.

12.3 TS/TRs

Tdoc #	Tdoc Title

12.4 WIs

Tdoc #	Tdoc Title
N4-020221	

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-020001	Proposed agenda for CN4 #12	CN4 chairman	Revised to N4-020010
N4-020002	Proposed allocation of documents to agenda items	CN4 chairman	Approved
N4-020003	List of agreed output documents	CN4 chairman	Approved
N4-020004	Summary report from CN #14 & SA #14, Kyoto	CN4 chairman	Noted
N4-020005	Work Plan	MCC	Postponed to N4 #12bis
N4-020006	CN#11 Meeting Report, Cancun	MCC	Approved
N4-020007	Introduction of CAMEL Phase 4	Vodafone Group Plc	Revised to N4-020260
N4-020008	Introduction of CAMEL Phase 4	Vodafone Group Plc	Noted
N4-020009	Introduction of CAMEL Phase 4	Vodafone Group Plc	Noted
N4-020010	Proposed agenda for CN4 #12	CN4 chairman	Approved
N4-020011	Inclusion of complete ODB data for ATSI and NSDC	Siemens AG	Revisedto N4-020209
N4-020012	Inclusion of complete ODB data for ATSI and NSDC	Siemens AG	N4-020210
N4-020013	Inclusion of complete ODB data for ATSI and NSDC	Siemens AG	Agreed
N4-020014	Collective CR on 23.016	Siemens AG	Noted
N4-020015	Inclusion of ODB data in ATM	Siemens AG	
N4-020016	Correction on active PDP contexts handling after Inter-SGSN RAU and HLR Reset	Motorola	Withdrawn
N4-020017	Correction on active PDP contexts handling after Inter-SGSN RAU and HLR Reset	Motorola	Withdrawn
N4-020018	Correction on active PDP contexts handling after Inter-SGSN RAU and HLR Reset	Motorola	Withdrawn
N4-020019	Definition correction for presense requirements of Information Element	Motorola	Postponed to N4 #12bis
N4-020020	Definition correction for presense requirements of Information Element	Motorola	Postponed to N4 #12bis
N4-020021	Definition correction for presense requirements of Information Element	Motorola	Postponed to N4 #12bis
N4-020022	Correction of TFT in SGSN-Initiated Update PDP Context Request	Motorola	Withdrawn
N4-020023	Correction of TFT in SGSN-Initiated Update PDP Context Request	Motorola	Withdrawn
N4-020024	Correction of TFT in SGSN-Initiated Update PDP Context Request	Motorola	Postponed to N4 #12bis
N4-020025	Clarification on the use of the Teardown indicator IE	Fujitsu, Motorola	Withdrawn
N4-020026	Clarification on the use of the Teardown indicator IE	Fujitsu, Motorola	Revised to N4-020244
N4-020027	Completing AMR-WB WI	Nokia	Principle approved
N4-020028	Codec fallback in TrFO Call Establishment to External Network	Nokia	Revisedto N4-020199
N4-020029	Support of IPv4 and IPv6 node addresses in Core Network	Nokia	Revised to N4-020254
N4-020030	IMS Enhancements (transferring binding information)	Nokia	Withdrawn
N4-020031	GTT enhancements in Bearer Independent Architecture	Nokia	Revised to N4-020168
N4-020032	GTT enhancement	Nokia	Revised to N4-020255
N4-020033	GTT enhancement on Mc	Nokia	Revised to N4-020265
N4-020034	Subscriber and equipment trace	Nokia	Postponed to N4 #12bis
N4-020035	The trace package	Nokia	Revised to N4-020169
N4-020036	Naming convention for TDM resources	Nokia	Revised to N4-020170
N4-020037	Naming convention for TDM resources	Nokia	Revised to N4-020171
N4-020038	(CN2/4) Si Interface: HSS to IM-SSF Interface Procedures	Lucent	Revised to N4-020159
N4-020039	Corrections to TS 29.228	Lucent	Postponed to N4 #12bis
N4-020040	Corrections to TS 29.229	Lucent	Postponed to N4 #12bis
N4-020041	Rel99 LCS CR to 29.002 for mobile without IMSI	Lucent	Revised N4-020132
N4-020042	Rel4 LCS CR to 29.002 for mobile without IMSI	Lucent	Withdrawn

N4-020043	Rel4 LCS CR to 29.002 for mobile without IMSI	Lucent	Withdrawn
N4-020044	Introduction of the “Requestor ID”	NTC	Revised N4-020139
N4-020045	Introduction of the “Requestor ID”	NTC	Agreed
N4-020046	Introduction of the “Requestor ID”	NTC	Revised N4-020140
N4-020047	Dangling PDP context handling	Lucent technologies	Postponed to N4 #12bis
N4-020048	Re-define the attributions of GTP Information Element	NEC	Postponed to N4 #12bis
N4-020049	Re-define the attributions of GTP Information Element	NEC	Postponed to N4 #12bis
N4-020050	Re-define the attributions of GTP Information Element	NEC	Postponed to N4 #12bis
N4-020051	About Recovery mechanism in GTP	Lucent technologies	Postponed to N4 #12bis
N4-020052	Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Revised to N4-020236
N4-020053	Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Revised to N4-020237
N4-020054	Handover indication	Siemens	Rejected
N4-020055	Base protocol commands not used	Nokia	Rejected
N4-020056	User Profile	Nokia	Partly accepted
N4-020057	S-CSCF change	Nokia	Postponedto joint session with CN1
N4-020058	Addition of multimedia information elements	Nokia, Ericsson,Hutchison 3G	Revised to N4-020185
N4-020059	Trace	Nokia	Partly accepted
N4-020060	De-registering service profiles	Nokia	Agreed
N4-020061	Corrections to TS 29.228 signaling flows	Nokia	Withdrawn
N4-020062	S-CSCF Selection for unregistered user	Nokia	Agreed
N4-020063	IETF Cx work relation to 3GPP	Nokia	Noted
N4-020064	Addition of Radio Resource List to the Forward Access Signalling operation	Nokia	Agreed
N4-020065	Addition of Radio Resource List to the Forward Access Signalling operation	Nokia	Agreed
N4-020066	Addition of Radio Resource List to the Forward Access Signalling operation	Nokia	Agreed
N4-020067	Correction to AC version of gprsLocationInfoRetrievalContext	Nokia	Agreed
N4-020068	Correction to AC version of gprsLocationInfoRetrievalContext	Nokia	Agreed
N4-020069	Handling the Requestor identity in a MT-LR	Nokia	Withdrawn
N4-020070	Relaying of SendIdentification when IuFlex is applied	Ericsson	Revised to N4-020188
N4-020071	External Network Assisted Cell Change (NACC)	Ericsson	Postponed to N4 #12bis
N4-020072	Priority of a PDP Context at Inter-SGSN RA Update	Ericsson	Postponed to N4 #12bis
N4-020073	Service change and fallback for UDI/RDI multimedia calls	L.M. Ericsson	Revised to N4-020178
N4-020074	Adding of the clear mode codec to Q/765.5	L.M. Ericsson	Noted
N4-020075	Enhanced usage of LSA-id	L.M. Ericsson	Withdrawn
N4-020076	(G)MSC restoration	LM Ericsson	Agreed
N4-020077	(G)MSC restoration	LM Ericsson	Agreed
N4-020078	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020175
N4-020079	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020176
N4-020080	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020198
N4-020081	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020219
N4-020082	Cause Codes in SGSN Context Response	Ericsson	Postponed to N4 #12bis
N4-020083	Cause Codes in SGSN Context Response	Ericsson	Postponed to N4 #12bis
N4-020084	Cause Codes in SGSN Context Response	Ericsson	Postponed to N4 #12bis
N4-020085	End User Address in Create PDP Context Response	Ericsson	Noted
N4-020086	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Revised to N4-020231
N4-020087	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Revised to N4-020232

N4-020088	Conditions for presence of Alerting Pattern in Complete Call	Ericsson	Withdrawn
N4-020089	Conditions for presence of Alerting Pattern in Complete Call	Ericsson	Withdrawn
N4-020090	Incomplete description of Restore Data parameters	Ericsson	Revised to N4-020245
N4-020091	Incomplete description of Restore Data parameters	Ericsson	Revised to N4-020246
N4-020092	Incomplete description of Restore Data parameters	Ericsson	Revised to N4-020247
N4-020093	Incomplete description of Restore Data parameters	Ericsson	Revised to N4-020248
N4-020094	User profile for Cx interface	L.M. Ericsson	Principle approved
N4-020095	Network initiated de-registration	L.M. Ericsson	Principle approved
N4-020096	TS 29.228 v1.0.1	L.M. Ericsson	Revised to N4-020161
N4-020097	TS 29.229 v1.0.1	L.M. Ericsson	Revised to N4-020162
N4-020098	Evolution of Cx interface specifications	L.M. Ericsson, Lucent	Noted
N4-020099	User identity to HSS resolution	L.M. Ericsson	Revised to N4-020160
N4-020100	Applicability of GUP ad hoc work to Cx User Profile	Nortel Networks	Noted
N4-020101	S-CSCF selection - options for implementation	Nortel Networks	Postponed to N4 #12bis
N4-020102	Codec-Info parameter length discrepency	Nortel Networks	Withdrawn
N4-020103	Correction of length of Codec-Info	Nortel Networks	Withdrawn
N4-020104	Correction of length of Codec-Info	Nortel Networks	Withdrawn
N4-020105	Correction of length of Codec-Info	Nortel Networks	Withdrawn
N4-020106	Correction of length of Codec-Info	Nortel Networks	Withdrawn
N4-020107	Padding of Codec-Info	Nortel Networks	Withdrawn
N4-020108	Padding of Codec-Info	Nortel Networks	Withdrawn
N4-020109	Padding of Codec-Info	Nortel Networks	Withdrawn
N4-020110	Padding of Codec-Info	Nortel Networks	Withdrawn
N4-020111	Liaison Statement on Mobility Management event reporting in the PS domain	N2	Noted
N4-020112	Liaison statement on Protocol Specification of the Ze-interface	CN	Noted
N4-020113	Liaison to SA, CN	CN	Noted
N4-020114	Reply to reply to LS “Update of Iu-Flex status” TSGR3#24(01) 3067	SA2	Noted
N4-020115	LS on external Network Assisted Cell Change	SA2	Noted
N4-020116	Protocol Specification of the Ze-interface	SA3	Noted
N4-020117	Reply to Liaison Statement on Handling of AMR-WB in Core Networks	SA4	Noted
N4-020118	Reply LS on “Selection of S-CSCF by I-CSCF based on capability requirements”	SA5	Noted
N4-020119	Liaison Statement on Trace Activation Mechanisms on the Mc and Cx Interfaces	SA5	Postponed to N4 #12bis
N4-020120	Liaison Statement on AMR-WB and Charging	SA5	Noted
N4-020121	Liaison Statement on MSISDN Address resolution for MMS using MAP operations	T2	Noted
N4-020122	Liaison Statement Reply to SyncML with Follow-Up Questions	T2	Noted
N4-020123	Answer to Liaison Statement on Cx User Profile	GUP	Noted
N4-020124	Status of the Generic User Profile Work	GUP	Noted
N4-020125	Release of In-Process Stage 1 Specification to SA1 for Review and Continuing Development	GUP	Noted
N4-020126	Liaison Statement on RANAP Indication Of Modify Support Of Link Characteristics	CN4	Revised to N4-020220
N4-020127	Reduction in the number of messages	Ericsson	Withdrawn
N4-020128	Removal of the APN IE in PDU Notification Reject Request message	NTT Software	Withdrawn
N4-020129	Removal of the APN IE in PDU Notification Reject Request message	NTT Software	Withdrawn
N4-020130	Removal of the APN IE in PDU Notification Reject Request message	NTT Software	Withdrawn
N4-020131	Removal of the APN IE in PDU Notification Reject Request message	NTT Software	Withdrawn
N4-020132	Rel99 LCS CR to 29.002 for mobile without IMSI	Lucent	Withdrawn
N4-020133	Correction on the Active Location Retrieval description	Orange France	Agreed
N4-020134	Correction on the Active Location Retrieval description	Orange France	Agreed
N4-020135	Correction on the Active Location Retrieval description	Orange France	Agreed
N4-020136	User profile definition ; XML or Diameter	Nokia	Rejected
N4-020137	Deregistration reason	Nokia	Principle approved
N4-020138	Use of Destination-Host AVP	Nokia	Postponed to N4 #12bis
N4-020139	Introduction of the “Requestor ID”	NTC	Revised to N4-020266
N4-020140	Introduction of the “Requestor ID”	NTC	Agreed
N4-020141	Clarification on overlapping data	Alcatel	Revised to N4-020240
N4-020142	Clarification on overlapping data	Alcatel	Revised to

			N4-020241
N4-020143	Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo	Alcatel	Postponed to N4 #12bis
N4-020144	Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo	Alcatel	Postponed to N4 #12bis
N4-020145	CR to 29.228 – Removal of Public User Identity from Cx-AuthData Req message	Vodafone	Postponed to N4 #12bis
N4-020146	Proposed Liaison Statement on Handling of AMR-WB in Core Networks	CN4	Revised to N4-020269
N4-020147	Comments on UP-010141 and relationship of GUP to Subscription Management	S5	Noted
N4-020148	Liaison Statement on Impacts of Subscriber and Equipment Trace	S5	Noted
N4-020149	Liaison Statement on Availability of IMSI and IMEI	S5	Postponed to N4 #12bis
N4-020150	Liaison Statement on " IP version interworking on the transport plane"	S2	Noted
N4-020151	Reply to Liaison Statement on Trace Activation Mechanism in SIP	CN1	Noted
N4-020152	LS on external Network Assisted Cell Change	GERAN 2	Noted
N4-020153	LS on the introduction of GERAN Iu mode	GERAN 2	Postponed to N4 #12bis
N4-020154	R5 CR29.002 for support of MAP Si interface	Lucent	Postponed To CN4 #13
N4-020155	R5 CR29.002 for support of Diameter Si interface	Lucent	Postponed To CN4 #13
N4-020156	Future meetings	MCC	Noted
N4-020157	Using Diameter on Sh Interface	Lucent	Postponed to N4 #12bis
N4-020158	new ASN.1 for 29.002 & 29.078	FT	Noted
N4-020159	(CN2/4) Si Interface: HSS to IM-SSF Interface (N4-020038r1)	Lucent	Postponed To CN4 #13
N4-020160	User identity to HSS resolution	L.M. Ericsson	Principle approved
N4-020161	TS 29.228 v1.0.1	L.M. Ericsson	Noted
N4-020162	TS 29.229 v1.0.1	L.M. Ericsson	Noted
N4-020163	Liaison Statement on “Availability of IMSI and IMEI”	RAN3	Noted
N4-020164	Reply LS on Sr interface between Application Server and MRFC	S2	Noted
N4-020165	LS on Sr interface between Application Server and MRFC	CN1	Noted
N4-020166	Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	S2	Noted
N4-020167	Reply to Liaison Statement on Trace Activation Mechanism in SIP	CN1	Withdrawn
N4-020168	GTT enhancements in Bearer Independent Architecture	Nokia	Noted
N4-020169	The trace package	Nokia	Postponed to N4 #12bis
N4-020170	Naming convention for TDM resources	Nokia	Revised to N4-020213
N4-020171	Naming convention for TDM resources	Nokia	Revised to N4-020214
N4-020172	Handling of CUG calls in non-supporting networks	Vodafone	Revised to N4-020233
N4-020173	Handling of CUG calls in non-supporting networks	Vodafone	Revised to N4-020234
N4-020174	Handling of CUG calls in non-supporting networks	Vodafone	Revised to N4-020235
N4-020175	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020217
N4-020176	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020217
N4-020177	Discussion Paper on the use of new IPCP options for delivery of P-CSCF address to UE	Lucent technologies	Postponed to N4 #12bis
N4-020178	Service change and fallback for UDI/RDI multimedia calls	L.M. Ericsson	Noted
N4-020179	Codec-Info parameter length clarification	Siemens	Principle agreed
N4-020180	Clarification on CODEC-Info	Siemens	Agreed
N4-020181	Clarification on CODEC-Info	Siemens	Agreed
N4-020182	Clarification on CODEC-Info	Siemens	Agreed
N4-020183	Clarification on CODEC-Info	Siemens	Agreed
N4-020184	LCS for SIMless E911 calls	Siemens	Noted
N4-020185	Addition of multimedia information elements	Nokia, Ericsson,Hutchison 3G	Revised to N4-020196
N4-020186	Liaison to SA, CN on inclusion of LI material in other WGs' specifications	CN4	Approved
N4-020187	MSISDN Address resolution for MMS using MAP operations	CN4	Approved
N4-020188	Relaying of SendIdentification when IuFlex is applied	Ericsson	Approved
N4-020189	Collective CR on 29.002	CN2	Noted

N4-020190	Correction to CAMEL4 handling	Vodafone	Noted
N4-020191	Correction on MT SMS SDL	Alcatel	Noted
N4-020192	Inclusion of ODB data in ATM	Siemens	Noted
N4-020193	Inclusion of ODB data in ATM	Siemens	Revised to N4-020263
N4-020194	23.008 collective CR	Alcatel	Revised to N4-020243
N4-020195	Criteria for MT-SMS-Alignment with 23.078	Alcatel	Noted
N4-020196	Addition of multimedia information elements	Nokia, Ericsson,Hutchison 3G	Agreed
N4-020197	Reply LS on Liaison Statement on Cx User Profile	CN4	Approved
N4-020198	Correction of Bearer Modification Handling	LM Ericsson	Revised to N4-020218
N4-020199	Codec fallback in TrFO Call Establishment to External Network	Nokia	Revised to N4-020271
N4-020200	LS to SA3 LI	CN4	Revised to N4-020268
N4-020201	Enhancements to subscriber information reporting in the PS domain	Vodafone	Noted
N4-020202	Enhancements to subscriber information reporting in the PS domain	Vodafone	Noted
N4-020203	Enhancements to subscriber information reporting in the PS domain	Vodafone	Endorsed Camel4
N4-020204	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	Noted
N4-020205	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	Postponed CN4#13
N4-020206	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	Postponed CN4#13
N4-020207	Transferring the MS classmark & IMEI to the CSE	Vodafone	Noted
N4-020208	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone	Noted
N4-020209	Inclusion of complete ODB data for ATSI and NSDC	Siemens AG	Agreed
N4-020210	Inclusion of complete ODB data for ATSI and NSDC	Siemens AG	Agreed
N4-020211	Allowed encoding types on the Mc Interface	Nortel Networks	Withdrawn
N4-020212	Allowed encoding types on the Mc Interface	Nortel Networks	Withdrawn
N4-020213	Naming convention for TDM resources	Nokia, Ericsson	Postponed to N4 #12bis
N4-020214	Naming convention for TDM resources	Nokia, Ericsson	Postponed to N4 #12bis
N4-020215	reply LS on Proposed CRs, Handover Indication	CN4	Approved
N4-020216	Correction of Bearer Modification Handling	LM Ericsson	Agreed
N4-020217	Correction of Bearer Modification Handling	LM Ericsson	Agreed
N4-020218	Correction of Bearer Modification Handling	LM Ericsson	Agreed
N4-020219	Correction of Bearer Modification Handling	LM Ericsson	Agreed
N4-020220	Liaison Statement on RANAP Indication Of Modify Support Of Link Characteristics	CN4	Approved
N4-020221	Cx WID	Lucent	Postponed to N4 #12bis
N4-020222	CR 09.02 R96 on ODB alignment	Siemens	Agreed
N4-020223	CR 09.02 R97 on ODB alignment	Siemens	Agreed
N4-020224	CR 09.02 R98 on ODB alignment	Siemens	Agreed
N4-020225	CR 29.002 R99 on ODB alignment	Siemens	Agreed
N4-020226	CR 29.002 Rel-4 on ODB alignment	Siemens	Revised to N4-020249
N4-020227	CR 29.002 Rel-5 on ODB alignment	Siemens	Revised to N4-020250
N4-020228	Clarification on PDP address field and end user address information element in create PDP context response	Motorola	Noted
N4-020229	Reply LS on the introduction of GERAN Iu mode	CN4	Approved
N4-020230	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Revised to N4-020261
N4-020231	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Revised to N4-020262
N4-020232	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Agreed
N4-020233	Handling of CUG calls in non-supporting networks	Vodafone	Agreed
N4-020234	Handling of CUG calls in non-supporting networks	Vodafone	Agreed
N4-020235	Handling of CUG calls in non-supporting networks	Vodafone	Agreed
N4-020236	Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Agreed
N4-020237	Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Agreed
N4-020238	Proposal: Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Agreed

N4-020239	Proposal: Clarification on PDP address field and end user address information element in create PDP context response	Siemens	Withdrawn
N4-020240	Clarification on overlapping data	Alcatel	Revised to N4-020252
N4-020241	Clarification on overlapping data	Alcatel	Revised to N4-020253
N4-020242	IMS Enhancements (transferring binding information)	Nokia	Postponed to N4 #12bis
N4-020243	23.008 collective CR	Alcatel	Noted
N4-020244	Clarification on the use of the Teardown indicator IE	Fujitsu, Motorola	Agreed
N4-020245	Incomplete description of Restore Data parameters	Ericsson	Agreed
N4-020246	Incomplete description of Restore Data parameters	Ericsson	Agreed
N4-020247	Incomplete description of Restore Data parameters	Ericsson	Agreed
N4-020248	Incomplete description of Restore Data parameters	Ericsson	Agreed
N4-020249	CR 29.002 Rel-4 on ODB alignment	Siemens	Agreed
N4-020250	CR 29.002 Rel-5 on ODB alignment	Siemens	Agreed
N4-020251	Reply Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	CN4	Postponed to N4 #12bis
N4-020252	Clarification on overlapping data	Alcatel	Agreed
N4-020253	Clarification on overlapping data	Alcatel	Agreed
N4-020254	Support of IPv4 and IPv6 node addresses in Core Network	Nokia	Revised to N4-020272
N4-020255	GTT enhancement	Nokia	Postponed to N4 #12bis
N4-020256	Continue Without Leg2 at DP2	Vodafone	Noted
N4-020257	Continue Without Leg2 at DP2 for MF calls	Vodafone	Noted
N4-020258	Continue Without Leg2 at DP12 for MT and VT calls	Vodafone	Noted
N4-020259	Remodelling of CAMEL_ICH_LEG2_MSC	Vodafone	Noted
N4-020260	Introduction of CAMEL Phase 4	Vodafone	Noted
N4-020261	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Agreed
N4-020262	MSISDN in Provide Roaming Number in case of MSP	Ericsson	Agreed
N4-020263	Inclusion of ODB data in ATM	Siemens	Noted
N4-020264	Trace and Availability of IMSI and IMEI		Postponed to N4 #12bis
N4-020265	GTT enhancement on Mc	Nokia	Postponed to N4 #12bis
N4-020266	Introduction of the “Requestor ID”	NTC	
N4-020267	Proposed LS to SA2 & GERAN2 on external Network Assisted Cell Change	CN4	Approved
N4-020268	LS to SA3 LI	CN4	Approved
N4-020269	Proposed Liaison Statement on Handling of AMR-WB in Core Networks	CN4	Approved
N4-020270	LS on MAP security issues	SA3	Noted
N4-020271	Codec fallback in TrFO Call Establishment to External Network	Nokia	Agreed
N4-020272	Support of IPv4 and IPv6 node addresses in Core Network	Nokia	Postponed to N4 #12bis

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:

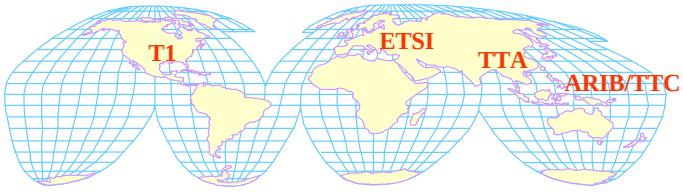
The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: http://www.3gpp.org/Meetings.htm

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	
19th Feb 2002	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 by28th February 2002**
~~**28th**~~ **05th** ~~**February**~~ **March 2002**	Draft report v2.0.0 placed on the FTP serve
08th April 2002	Version 2.0.0 approved at CN4#13 Meeting in Cancun, MEXICO – Made version 3.0.0. Placed to server as the official meeting report.



Third Generation Partnership Project

Draft Meeting REPORT ~~v1~~v2.0.0
3GPP TSG_CN_WG4#12bis

Helsinki, FINLAND
13th ~~January~~ February – 14thFebruary 2002

Nokia Networks, FINLAND

Chairmen:	**Mr. Peter Schmitt, Siemens**
	Mr. Toshiyuki Tamura, NEC
MCC Support:	**Mr. Kimmo Kymäläinen, ETSI MCC.**

Table of contents

1 Opening of the meeting & Approval of Agenda

Mr. Peter Schmitt, CN4 vice 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** (N4-020281r1).

2 Document Allocation

The document allocation (N4-020282) was **approved**

3 Meeting Reports

4 Liaison Statements

Document: **N4-020289**
Title: Reply to Liaison Statement on Availability of IMSI and IMEI
Source: GERAN
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Noted**

Document: **N4-020290**
Title: Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN
Source: CN1
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Noted**

Document: **N4-020291**
Title: Comments on UP-010141 and relationship of GUP to Subscription Management
Source: SA5
Presented: Mr. Peter Schmitt, Chairman
Discussion:

Decision: **Noted**

Document: **N4-020301**
Title: Transport of IMS-AKA Material
Source: SA3
Presented:
Discussion:

- LS postponed to CN4#13
- Companies are invited to prepare contributions to the next meeting

Decision: **Postponed to CN4#13**

5 Work Item Management

6 Release 5

6.1 Subscriber data handling for the IMS

6.1.1 HSS – CSCF (Cx) interface

Document: **N4-020138**
CR:
Title: Use of Destination-Host AVP
Source: Nokia
Presented: Mr. Jaakko Rajaniemi, Nokia
Discussion:

- Ericsson: This is already described in a one specific chapter.
- Companies agreed that more detailed description is needed as provided by Nokia. Anyway there are different views about the location of the proposed text.
  - Nokia: The proposal is a one solution.
- Editor will add the supposed text to the next draft version of 29.229.

Decision: **Approved**

Document: **N4-020221**
Title: Updated WID for Cx protocol
Source: Lucent
Presented: Mr. Nigel Berry, Lucent
Discussion:

Decision: **Approved**

6.1.2 HSS – Application Server~~SLF - CSCF~~ (~~Dx~~Sh) interface

Document: **N4-020286**
Title: Changes to 29.228 to incorporate the ~~Si and~~ Sh Interfaces
Source: Lucent
Presented: Mr. Nigel Berry, Lucent
Discussion:

- CN4 agreed: Sh-interface is needed already for Rel-5.
- Dynamicsoft: Two new requirements are needed for Sh-interface.
  - Ericsson: We need to get requirements from SA2.
- Ericsson & Nokia: Requirements for Sh interface are not clear enough. It is too early to make a decision in protocol level.
- Vodafone: We would like to see some decision right now because we don't want to postponed the Sh interface issues to Rel-6.
- Lucent: 23.218 is quite stable~~a stabile~~. CN1 will send it for approval at CN#15. So we can't understand the delay at the choice of diameter protocol use.
- CN4#12bis found a consensus: All companies present agreed that the diameter protocol was considered as the best~~a~~ protocol for the Sh interface.
- Dynamicsoft: Do we need a separate specification?
  - Ericsson: That is an only reasonable solution from our point of view.
  - Nokia & Ericsson don't want to see Cx- and Sh-interface described in a same specification.
- WID is needed.
  - N4-020298 (Drafted by Dynamicsoft/Lucent)
  - Supported companies: Dynamicsoft, Lucent, Ericsson, Nokia, Siemens, Vodafone

Decision: **Noted**

Document: **N4-020298**
Title: Sh interface (AS-HSS)
Source: Dynamicsoft
Presented: Mr. Andrew Allen, Dynamicsoft
Discussion:

- Transparent in chapter 4 3rd topic should be moved

Decision: **Revised to N4-020308**

Document: **N4-020308**
Title: Sh interface (AS-HSS)
Source: Dynamicsoft
Presented: Mr. Andrew Allen, Dynamicsoft
Discussion:

- Two new specifications are introduced in CN#16
  - 29.338 (Proposed): IP Multimedia Subsystem Sh Interface Signalling Flows and Message Contents
  - 29.339 (Proposed): Sh Interface based on the Diameter protocol

Decision: **Approved**

6.2 GPRS

Document: **N4-020242**
CR:
Title: GPRS Tunnelling Protocol (GTP) across the Gn and Gp Interface
Source: Nokia
Presented: Mr. Jarmo Ylä-Mella
Discussion:

- NEC: "wants to provide" should be as "to provides".
- CR numbers are missing in the cover page.

Decision: **Revised to N4-020294**

Document: **N4-020294**
CR:
Title: GPRS Tunnelling Protocol (GTP) across the Gn and Gp Interface
Source: Nokia
Presented:
Discussion:

Decision: **Agreed without presentation**

Document: **N4-020292**
Title: Proposed Liaison statement to SA2 on the transparent transfer via SGSN of application level information between UE and GGSN
Source: CN4
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- PCO field shall be optional

Decision: **Revised to N4-020295**

Document: **N4-020295**
Title: Proposed Liaison statement to SA2 on the transparent transfer via SGSN of application level information between UE and GGSN
Source: CN4
Presented:
Discussion:

Decision: **Approved without presentation**

Document: **N4-020272**
CR: 29.060-292r1
Title: Support of IPv4 and IPv6 node addresses in Core Network
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Lucent, Vodafone & D2 can't support the Nokia's proposal because they believe there might be some backward compatibility problems which are not solved in the CR.
- The companies would like to see Lucent's proposal of IPv4 and IPv6 node addresses.
- Solution:
    - o

Decision: **Have to be reported to CN plenary that introduction of a dual stack on GTP has started. Two contradictional CRs were discussed. No agreement was reached. Discussion will continue in the CN4#13 meeting. Request to CN plenary #15 to allow the delay until #16.**

Document: **N4-020299**
CR: 29.060-310
Title: Support of IPv4 and IPv6 node addresses in Core Network
Source: Lucent
Presented: Mr. Alessio Casati
Discussion:

- Mandates a dual stack node that Ipv4 is sent in the existing data field from previous releases.
- Ericsson & Nokia can't accept the solution

Decision: **Have to be reported to CN plenary that introduction of a dual stack on GTP has started. Two contradictional CRs were discussed. No agreement was reached. Discussion will continue in the CN4#13 meeting. Request to CN plenary #15 to allow the delay until #16.**

Document: **N4-020047**
CR: 29.060-294
Title: Dangling PDP context handling
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Nokia: ".. to add robustness against the case the GGSN has…" **have to be** "… to add robustness against the case the SGSN has…"
- Vodafone: "… In such a case, the GGSN should include…" have to be "… In such a case, the GGSN shall include…"
- NEC: The "Qos" and the "End user Address" shall not be included in this case.
- Orange France~~FT~~: Why don't we use a new GTP version (v.2) in Rel-5?
    - o Ericsson: This must be checked. We have tried to avoid that because there might be many influences in extension headers.
- Vodafone D2 GmbH~~D2-Vodafone~~: As an operator point of view we believe there might be some backward compatibility problems that's why we can't accept the changes if those problems aren't solved.

Decision: **Revised to N4-020296**

Document: **N4-020296**
CR: 29.060-294r1
Title: Dangling PDP context handling
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- The companies could find an agreement that there are no backward compatibility problems.
- Motorola (Mr. Michael Young, Email: 22/02/2002 time 03:03 am) comments after meeting via E-mail:

- We have some concers over the sentence "When the optional IMSI IE value differs from the IMSI IE value associated to the PDP context, the SGSN shall respond using the cause value 'Non-existent'."
- This sentence is not very clear as no IMSI IE used in the response message at all. It should either be moved to section 7.3.3 or be changed as:
  - "When the optional IMSI IE value in the received request message differs from the IMSI IE value associated to the PDP context, the SGSN shall respond using the cause value 'Non-existent'."

Decision: **Agreed**

Document: **N4-020051**
CR: 29.060-276r1
Title: About Recovery mechanism in GTP
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Nokia & Ericsson: Recovery has to be optional; not conditional
- Ericsson & Nokia: We don't believe this is a critical correction for Rel-4. The both companies believe the text is a good enough as it has described before.
- Motorola (Mr. Michael Young, Email: 22/02/2002 time 03:03 am) comments after meeting via E-mail:
  - According to the text description, it did specify kind of condition whether to include the IE, therefore the Recovery IE should be "Conditional" not "Optional". If we want to keep it as "Optional", do we need any modification to the text?

Decision: **Rejected**

Document: **N4-020293**
CR: 29.060-297r1
Title: Re-define the attributions of GTP Information Element
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Agreed**

Document: **N4-020297**
CR: 29.060-300r1
Title: External Network Assisted Cell Change (NACC)
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Corrections needed
- Revised version will be sent to CN4 email list for approval

△ **The objections must be received on the CN4 email distributor by close of business (17:00 CET) on Tuesday 26 February 2002. If no objections are received by the closing time, the CRs will be submitted to CN #15 for approval.**

Decision: **Revised to N4-020307**

Document: **N4-020307**
CR: 29.060-300r2
Title: External Network Assisted Cell Change (NACC)
Source: Ericsson
Presented: Email discussion
Discussion:

- A comment by Fujitsu (Email 25/02/2002 time 15:13):
  - Section 10.1.2.3 and 11.1 also need to be changed to reflect the introduction of new uni-directional GTP-C message.

Decision: **Revised to N4-020309**

Document: **N4-020309**
CR: 29.060-300r3
Title: External Network Assisted Cell Change (NACC)
Source: Ericsson
Presented: Email discussion
Discussion:

Decision: 26th February: **Agreed**

Document: **N4-020072**
CR: 29.060-301
Title: Priority of a PDP Context at Inter-SGSN RA Update
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-020177**
Title: Discussion Paper on the use of new IPCP options for delivery of P-CSCF address to UE
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- Ericsson: The discussion paper is the issue of CN1 and CN3. We can note the document but not endorse it.
    - Vodafone: This is only a useful information about the P-CSCF IP address.

Decision: **Noted**

6.3 Any other business

6.3.1 Global Text Telephony

Document: **N4-020255**
CR: 23.205-18r1
Title: GTT enhancement
Source: Nokia
Presented: Mr. Markus Ahokangas, Nokia
Discussion:

- Ericsson: a GTT is not currently included in Annex F of H.248. The contribution was sent too late to ITU to introduce the functionality.
- Ericsson: CTM packages are not included in H.248 yet.
    - Ericsson: the ITU will handle this at meeting on May.
- References aren't correctly introduced.
- Chapter 14.7.
    - (Release 5) have to be removed in chapter
    - Ericsson: The first chapter should be removed
    - Ericsson: Third paragraph, The last sentence should be removed.
- Ericsson & Vodafone: The chapter 14.7 should reworked to show more relevant the requirements and functionality for Bearer Independent architecture.
- Nokia: Do we have problems to send category B CRs (Rel-5) to CN plenary in June
    - CN4 didn't see any problems is that case.

Decision: **Postponed to CN4#13**

Document: **N4-020265**
CR: 29.232-22r1
Title: GTT enhancement on Mc
Source: Nokia
Presented: Mr. Markus Ahokangas, Nokia

Discussion:

- The Final decision postponed. A Text Conversation Package needs updates (at May meeting of ITU)

Decision: **Postponed to CN4#13**

6.3.2 Bearer independent architecture

Document: **N4-020119**
Title: Liaison Statement on Trace Activation Mechanisms on the Mc and Cx Interfaces
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-020149**
Title: Liaison Statement on Availability of IMSI and IMEI
Source: SA5
Presented:
Discussion:

Decision: **Noted**

Document: **N4-020264**
Title: Proposed Response Liaison Statement to SA5 on Trace and Availability of IMSI and IMEI
Source: CN4
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Ericsson: We have some concerns to spread the ~~sensible~~ sensitive information like IMSI over all the network elements.
  - Vodafone supports Ericsson.
- Nokia: Is trace requested by operators for Rel-5?~~Does the trace is requested by operators?~~
  - Vodafone: Yes it is something Vodafone want.~~yes it does.~~
- Vodafone D2 GmbH~~D2~~: We should ask more information from SA5 if RAN and GERAN have introduced the IMSI and IMEI sending in their interfaces for the trace capabilities.
- Actions in LS
  - To: SA5, SA3, RAN2, GERAN2
  - Cc: RAN3, CN1
  - The last sentence is removed: "CN4 has the opinion that Trace activation to MGW using Mc interface is the only feasible solution. CN4 would advice SA5 to get acquainted to Bearer Independent Architecture and the ideas behind it."
  - Actions to SA5
    - CN4 asks SA5 about the information they want to collect in MGW. CN4 would like to check if the information is already available in the MSC server or can be retrieved from MGW and in which circumstances?
    - CN4 would like to raise cancers in transmitting sensitive information like IMSI/IMEI across the Mc interface
  - Actions to SA3:
    - CN4 would like guidance from SA3 on security implications on spreading sensitive information like IMSI/IMEI over the signalling interfaces due to support trace functionality.
  - Actions to RAN2 and GERAN2
    - CN4 ask if IMSI/IMEI is already sent over signalling interfaces (CN4 is receiving contradictory information).
  - A new contact person is Elena Garcia-Mendive, Ericsson

Decision: **Revised to N4-020302**

Document: **N4-020302**
Title: Response Liaison Statement to SA5 on Trace and Availability of IMSI and IMEI

Source: CN4
Presented:
Discussion:

Decision: **Approved**

Document: **N4-020034**
CR: 23.205-019
Title: Subscriber and equipment trace
Source: Nokia
Presented:
Discussion:

- Response from SA5 and SA3 expected

Decision: Postponed to CN4#13

Document: **N4-020169**
CR: 29.232-023r1
Title: The trace package
Source: Nokia
Presented:
Discussion:

Decision: Postponed to CN4#13

6.3.3 Camel 4

Document: **N4-020287**
Title: Collective CR on 29.002
Source: CN2
Presented:
Discussion:

- Vodafone & Siemens: We have made some comment against the CR.
  - The both companies have sent the comments directly to editor.
  - Lucent asks companies to send the same comments also on CN4 email list.
- The CR needs to be revised.
- The objections must be received on the CN4 email distributor by close of business (17:00 CET) on Tuesday 26 February 2002. If no objections are received by the closing time, the CRs will be submitted to CN #15 for approval.

Decision: **Revised to N4-020300**

Document: **N4-020288**
CR: 29.018-100
Title: Transferring the MS classmark & IMEI to the gsmSCF
Source: CN2/Vodafone
Presented: Mr. Nick Russell
Discussion:

- A corresponding CR is outstanding in SA1.

Decision: **Conditionally approved**

7 UMTS Release 4 & Release 99 maintenance

7.1 Bearer independent architecture

Document: N4-020213
CR: 29.232-024r2
Title: Naming convention for TDM resources
Source: Ericsson

Presented:
Discussion:

- Lucent has checked the changes back at home and they don't have anything against the CRs.

Decision: **Agreed, Also mirror CR (29.232-025r2) for Rel-5 agreed**

7.2 TrFO

Document: **N4-020153**
Title: Introduction of GERAN Iu mode
Source: GERAN2
Presented:
Discussion:

- Siemens will start the email discussion after meeting with the attached CR.
- Decision of the CR is postponed to CN4#13

Decision: **Noted**

7.3 GPRS & GTP enhancements

Document: N4-020048
CR: 29.060-295
Title: Re-define the attributions of GTP Information Element
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- Ericsson: We can't accept any changes in this issue before Rel-5.
- Nokia: The definition is clear enough already, but Nokia can accept the changes in Rel-5.
- NEC: R99 & Rel-4 (N4-020049) are withdrawn by author.

Decision: **Withdrawn**

Document: **N4-020082**
CR: 29.060-302
Title: Cause Codes in SGSN Context Acknowledge
Source: Ericsson
Presented: Mr. Einar Oltedal, Ericsson
Discussion:

- Ericsson: Category F – critical correction
  - CN1 has already approved the corrections to R99.
  - Lucent doesn't believe this is an critical correction.
- CN4 agreed the category is "agreed by consensus"
- Nokia: Do we need a new cause code?
  - D2: Support Ericsson's proposal for a new cause code. It makes a life easier for operators.
- Lucent: We can't agree the changes in R99.
  - Chairman: CN1 has already agreed the changes in stage 2 R99
- D2: If we don't accept a new cause code we should make the clarifications in the existing ones.
- Lucent: There is already a mention at stage 2.
  - Ericsson: Stage 2 doesn't cover stage 3.
- Lucent can't accept the sentence:" The old SGSN shall keep all the data for the MS, i.e. both the MM context and the PDP contexts, when the Cause is set to 'Roaming not allowed".
  - Ericsson: The sentence is the main point of the CR.
  - Lucent: The sentence might cause some confusion.
    - NEC agreed with Lucent
- Ericsson: Error handling is not complete in stage 2.
- Lucent: There is a cause code 204 "roaming restriction". Would it been possible to use it?

- Postponed to email discussion
- Motorola (Mr. Michael Young, Email: 22/02/2002 time 03:03 am) comments after meeting via E-mail:
    - Motorola won't be able to accept a new cause code for R99. Meanwhile, we don't think the new cause code is needed before the behavior of already specified cause codes get clarified. Also, Motorola agrees with Lucent and NEC and reserve the concerns over the new sentence :" The old SGSN shall keep all the data for the MS, i.e. both the MM context and the PDP contexts, when the Cause is set to 'Roaming not allowed". Even though it is needed, this behavior definition in section 7.5.5 should be moved to section 7.7.1 as this is a general rule and should apply to other cases too. Therefore, Motorola object to approve this CR.

△ **Deadline for email discussion is 26th February**

△ **CN4 will send the revised CR to CN#15 plenary for approval if changes are agreed during email discussion.**

Decision: **Postponed; email approval as well as Rel-4 & Rel-5 CRs**
Revised email discussion documents are: N4-020304 – N4-020306

Document: **N4-020304**
CR: 29.060-302r1
Title: Cause Codes in SGSN Context Acknowledge
Source: Ericsson
Presented: Email discussion
Discussion:

Decision: 26th of February: Documents N4-020304 – 020306 are **Postponed** to CN4#13

7.4 Any other business

8 Any other business

9 Update of the Work Plan

- **N4-020005**
- Work Plan updated
- Changes will be included in the revised version of the work plan (MCC will do it before CN plenary)

-

10 Output of CN4#12bis

10.1 Change Requests

N4-020300, N4-020304 – N4-020307 will be agreed/rejected by email before 26th February.

Tdoc #	Title	Source
0072	CR 29.060-301 (Rel-5) on Priority of a PDP Context at Inter-SGSN RA Update	Ericsson
0213	CR 29.232-024r2 (Rel-4) on Naming convention for TDM resources	Nokia, Ericsson
0214	CR 29.232-025r2 (Rel-5) on Naming convention for TDM resources	Nokia, Ericsson
0293	CR 29.060-297r1 (Rel-5) on Re-define the attributions of GTP Information Element	NEC
0294	CR 29.060-309 r1 on IMS enhancements	Nokia
0296	CR 29.060-294 (Rel-5) on Dangling PDP context handling	Lucent Technologies
03097	CR 29.060-300r3 (Rel-5) on External Network Assisted Cell Change (NACC)	Ericsson
0288	CR 23.018 Transferring the MS classmark & IMEI to the gsmSCF	CN2, Vodafone

10.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN4 #12bis meeting:

TDOC N4-00xxxx	Subject	To	Cc	Attachment	Sent
N4-020295	Response to SA2 on Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN.	SA2	CN1		18th Feb.
N4-020302	Proposed Response Liaison Statement to SA5 on Trace and Availability of IMSI and IMEI	SA5, SA3, RAN2, GERAN2	RAN3, CN1		18th Feb.

10.3 TS/TRs

Tdoc #	Tdoc Title

10.4 WIs

Tdoc #	Tdoc Title
N4-020221	Updated WID for Cx protocol
N4-020308	WID on SH interface

Annex A : Participants

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-020005	Work Plan	MCC	Noted
N4-020019	Definition correction for presense requirements of Information Element	Motorola	Rejected
N4-020020	Definition correction for presense requirements of Information Element	Motorola	Rejected
N4-020021	Definition correction for presense requirements of Information Element	Motorola	Rejected
N4-020024	Correction of TFT in SGSN-Initiated Update PDP Context Request	Motorola	Postponed
N4-020034	Subscriber and equipment trace	Nokia	Postponed to CN4#13
N4-020039	Corrections to TS 29.228	Lucent	Revised to N4-020284
N4-020040	Corrections to TS 29.229	Lucent	Revised to N4-020285
N4-020047	Dangling PDP context handling	Lucent technologies	Revised to N4-020296
N4-020048	Re-define the attributions of GTP Information Element	NEC	Withdrawn
N4-020049	Re-define the attributions of GTP Information Element	NEC	Withdrawn
N4-020050	Re-define the attributions of GTP Information Element	NEC	Revised to N4-020293
N4-020051	About Recovery mechanism in GTP	Lucent technologies	Rejected
N4-020071	External Network Assisted Cell Change (NACC)	Ericsson	Revised to N4-020297
N4-020072	Priority of a PDP Context at Inter-SGSN RA Update	Ericsson	Agreed
N4-020082	Cause Codes in SGSN Context Response	Ericsson	Revised to N4-020304
N4-020083	Cause Codes in SGSN Context Response	Ericsson	Revised to N4-020305
N4-020084	Cause Codes in SGSN Context Response	Ericsson	Revised to N4-020306
N4-020101	S-CSCF selection - options for implementation	Nortel Networks	Withdrawn
N4-020119	Liaison Statement on Trace Activation Mechanisms on the Mc and Cx Interfaces	SA5	Noted
N4-020138	Use of Destination-Host AVP	Nokia	Approved
N4-020143	Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo	Alcatel	Withdrawn
N4-020144	Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo	Alcatel	Withdrawn
N4-020145	CR to 29.228 – Removal of Public User Identity from Cx-AuthData Req message	Vodafone	Withdrawn
N4-020149	Liaison Statement on Availability of IMSI and IMEI	S5	Noted
N4-020153	LS on the introduction of GERAN Iu mode	GERAN 2	Noted
N4-020157	Using Diameter on Sh Interface	Lucent	Revised to N4-020286
N4-020169	The trace package	Nokia	Postponed
N4-020177	Discussion Paper on the use of new IPCP options for delivery of P-CSCF address to UE	Lucent technologies	Noted
N4-020213	Naming convention for TDM resources	Nokia, Ericsson	Agreed
N4-020214	Naming convention for TDM resources	Nokia, Ericsson	Agreed
N4-020221	Cx WID	Lucent	Approved
N4-020242	IMS Enhancements (transferring binding information)	Nokia	Revised to N4-020294
N4-020251	Reply Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	CN4	Revised to N4-020292
N4-020255	GTT enhancement	Nokia	Postponed to CN4#13
N4-020264	Trace and Availability of IMSI and IMEI		Revised to N4-020302
N4-020265	GTT enhancement on Mc	Nokia	Postponed to CN4#13
N4-020272	Support of IPv4 and IPv6 node addresses in Core Network	Nokia	Postponed to CN4#13
N4-020281	Proposed agenda for CN4 #12bis	CN4 #12bis chairman	Approved
N4-020282	Proposed allocation of documents to agenda items	CN4 #12bis chairman	Approved
N4-020283	List of agreed output documents	CN4 #12bis chairman	
N4-020284	Corrections to TS 29.228	Lucent	Withdrawn
N4-020285	Corrections to TS 29.229	Lucent	Withdrawn
N4-020286	Using Diameter on Sh Interface	Lucent	Noted
N4-020287	Collective CR on 29.002	CN2	Revised to N4-020300
N4-020288	Transferring the MS classmark & IMEI to the gsmSCF	Vodafone/CN2	Noted

N4-020289	Reply to Liaison Statement on Availability of IMSI and IMEI	GERAN	Noted
N4-020290	Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	CN1	Noted
N4-020291	Comments on UP-010141 and relationship of GUP to Subscription Management	SA5	Noted
N4-020292	Reply Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	CN4	Revised to N4-020295
N4-020293	Re-define the attributions of GTP Information Element	NEC	Agreed
N4-020294	IMS Enhancements (transferring binding information)	Nokia	Agreed
N4-020295	Reply Liaison statement on the transparent transfer via SGSN of application level information between UE and GGSN	CN4	Agreed
N4-020296	Dangling PDP context handling	Lucent technologies	Agreed
N4-020297	External Network Assisted Cell Change (NACC)	Ericsson	Revised to N4-020307
N4-020298	WID Sh-interface	Dynamicsoft	Revised to N4-020308
N4-020299	Support of IPv4 and IPv6 node addresses in Core Network	Lucent	Postponed to CN4#13
N4-020300	Collective CR on 29.002	CN2	Email approval
N4-020301	Transport of IMS-AKA Material	SA3	Postponed to CN4#13
N4-020302	Trace and Availability of IMSI and IMEI		Approved
N4-020303	Liaison Statement on coordination of data definitions, identified in GUP development	T2	Postponed to CN4#13
N4-020304	Cause Codes in SGSN Context Response	Ericsson	Postponed to CN4#13~~Email approval~~
N4-020305	Cause Codes in SGSN Context Response	Ericsson	Postponed to CN4#13~~Email approval~~
N4-020306	Cause Codes in SGSN Context Response	Ericsson	Postponed to CN4#13~~Email approval~~
N4-020307	External Network Assisted Cell Change (NACC)	Ericsson	Revised to N4-020309~~Email approval~~
N4-020308	WID Sh-interface	Lucent, Dynamicsoft	Approved
N4-020309	External Network Assisted Cell Change (NACC)	Ericsson	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	
18th February 2002	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 28th February 2002**
05~~28~~th ~~February~~ March 2002	Draft report v2.0.0 placed on the FTP serve
8th April 2002	Version 2.0.0 approved at CN4#13 Meeting in Fort Lauderdale, USA – Made version 3.0.0. Placed to server as the official meeting report.