

**3GPP TSG CN Plenary Meeting #17**  
**4<sup>th</sup> – 6<sup>th</sup> September 2002 Biarritz, FRANCE.**

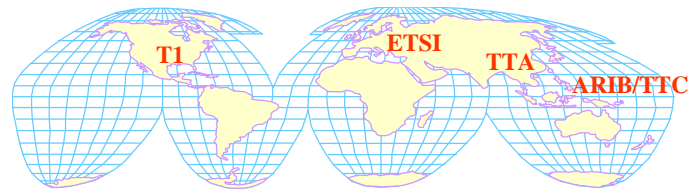
**NP-020442**

**Source:** TSG CN WG4  
**Title:** Meeting reports after CN#16  
**Agenda item:** 6.4.1  
**Document for:** Information

---

**Introduction:**

This document contains a TSG CN WG4 meeting report after CN#16: TSG CN WG4 #15. The document is forwarded to TSG CN Plenary meeting #17 for information.



## Third Generation Partnership Project

### Draft Meeting REPORT v1.0.0 3GPP TSG\_CN\_WG4#15

Helsinki, FINLAND  
28<sup>th</sup> July – 2<sup>nd</sup> August 2002



Hosts: Sonera, Nokia, Ficora, Elisa

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

## Table of contents

1	Opening of the meeting & Approval of Agenda .....	4
1.1	Make calls for IPRs .....	4
2	Document Allocation .....	4
3	Meeting Reports .....	4
3.1	Approval of the report of CN4 #14, Budapest, USA .....	4
3.2	Summary report of CN #16 & SA #16, Marco Island, June 2002 .....	4
4	Liaison Statements .....	4
5	Work Item Management .....	7
6	Release 5 .....	8
6.1	Network domain security .....	8
6.2	GPRS .....	8
6.3	IP signalling transport .....	9
6.4	Location Services .....	9
7	Release 5 .....	10
7.1	Subscriber data handling for the IMS .....	10
7.1.1	HSS – CSCF (Cx) & SLF – CSCF (Dx) interfaces .....	14
7.1.2	HSS – SIP AS (Sh) interface .....	16
7.1.3	HSS – IM-SSF (Si) interface .....	19
7.2	Camel 4 .....	19
7.3	GPRS .....	22
7.4	LCS in the PS domain .....	25
7.5	Bearer Independent Architecture .....	25
7.6	SMS .....	26
7.7	ASN.1 updates to 29.002 & 24.080 .....	26
7.8	Network sharing .....	27
7.9	Basic call handling .....	30
7.10	TrFO/Codec control .....	30
7.11	Any Other Business .....	30
7.11.1	GERAN lu mode .....	31
7.11.2	Global Text Telephony .....	32
7.11.3	Numbering & addressing .....	33
7.11.4	MAP protocol .....	33
7.11.5	Supplementary services protocol .....	35
7.11.6	Handover .....	35
7.11.7	Supplementary services .....	35
8	UMTS Release 4 & Release 99 maintenance .....	35
8.1	Location services .....	35
8.2	Bearer independent architecture .....	36
8.3	GPRS .....	38

8.4	CAMEL phase 3.....	44
8.5	Handover .....	45
8.6	IP signalling transport.....	46
8.7	TrFO/Codec control.....	46
8.8	Any other business .....	48
8.8.1	Supplementary services.....	48
8.8.2	MAP – access signalling interworking .....	50
9	GSM maintenance .....	51
9.1	GPRS .....	51
10	AOB.....	51
10.1	Working methods .....	51
11	Update of the Work Plan .....	52
12	Future meetings .....	52
13	Output of CN4#14 .....	53
13.1	Change Requests .....	53
13.2	Liaison Statements .....	57
13.3	TS/TRs .....	57
13.4	WIs .....	57
Annex A	: Participants .....	59
Annex B	: List of Temporary Documents .....	62
Annex C	: Make calls for IPRs.....	72
Annex D	: Access to 3GPP documents.....	73
2.2	3GPP email lists:.....	73
2.3	Email archives:.....	73
2.4	Meeting calendar: .....	73
2.5	Documents on the server: .....	73
ANNEX E	: Document history .....	74

---

# 1 Opening of the meeting & Approval of Agenda

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

## 1.1 Make calls for IPRs

The document is included in Annex C.

The agenda was presented and **approved** (N4-020783).

---

# 2 Document Allocation

The late arrived documents accepted by the meeting

- Ericsson had concerns about N4-020981. They didn't have time to check the CR. Vodafone will present the documents and get comments afterwards.

The document allocation (N4-020785) was **approved**

---

# 3 Meeting Reports

## 3.1 Approval of the report of CN4 #14, Budapest, USA

The Budapest meeting report CN4#14 (N4-020788) was **approved**. The document was raised to version 3.0.0. and will be uploaded to the server.

## 3.2 Summary report of CN #16 & SA #16, Marco Island, June 2002

The summary report was presented by chairman Mr. Ian Park.

- Lucent remind the meaning of the new cover sheet.

The document was (N4-020786) was noted.

---

# 4 Liaison Statements

**Document:** N4-020797  
**Title:** Response Liaison Statement on IMS Identities for R99/R4 UICC  
**Source:** CN1  
**Presented:** Mr. Ian Park, Chairman  
**Discussion:**

**Decision:** Noted

**Document:** N4-020798  
**Title:** Liaison Statement on 3GPP Network Domain Name usage for IMS  
**Source:** CN1  
**Presented:** Mr. Ian Park, Chairman  
**Discussion:**

**Decision:** Noted

**Document:** N4-020799  
**Title:** Response to LS (S1-020642) on Priority Service Feasibility Study  
**Source:** RAN2  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** Noted

**Document:** N4-020802  
**Title:** Reply LS on IMS identities for Rel 99/R4 UICC  
**Source:** SA3  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** Noted

**Document:** N4-020803  
**Title:** Reply LS on Immediate Service Termination  
**Source:** SA3  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** Noted

**Document:** N4-020805  
**Title:** LS on Subscriber and Equipment Trace Impacts  
**Source:** SA5  
**Presented:** Mr. Seppo Kauntola, Nokia  
**Discussion:**

ACTION toCN4:

- 1) Would CN1/CN4/GERAN/RAN3 agree on specifying any needed enhancements (see the list above) in co-operation with SA5 SWGD within Release 6 timeframe?
- 2) The attached draft TS 32.421 "Trace Concepts and Requirements" contains high-level requirements for trace. When would CN1/CN4/GERAN/RAN3 need the detailed requirements for the enhancements from SA5 SWGD to be able to meet the Release 6 timeframe?
- 3) If enhancements would be done in CN1/CN4/GERAN/RAN3, would CN1/CN4/GERAN/RAN3 kindly provide identification of the related work item(s) to SA5 SWGD.

**Response SA5:**

- The LS is N4-020990 (Will be drafted by Seppo Kauntola, Nokia)
- Lucent: UTRAN access for CS and GPRS seems to missing from SA5 draft spec.
- CN4 will accept the work in Rel-6.
- CN4 needs detailed requirement by December 2002.
- Nokia: We believe there are no impacts in GPRS.
- CN4 delegates need to discuss with CN1 if we need CN specific or CN4 specific WID.
- Nokia will check SGSN-GGSN interworking is needed for trace management.

**Decision:** Noted

**Document:** N4-020990  
**Title:** Reply LS on Subscriber and Equipment Trace Impacts  
**Source:** Nokia  
**Presented:** Mr. Seppo Kauntola, Nokia  
**Discussion:**

**Decision:** Approved

**Document:** N4-020819  
**Title:** Reply LS on Subscriber and Equipment Trace Impacts  
**Source:** RAN3  
**Presented:** Mr. Seppo Kauntola, Nokia  
**Discussion:**

**Decision:** Noted

**Document:** N4-020864

**Title:** LS on Network Integration Testing

**Source:** TC Span

**Presented:** Mr. Ian Park, chairman

**Discussion:**

- Response LS N4-020991 (Will be drafted by Ulrich Wiehe, Siemens).
- Offline study is needed.

**Decision:** **Noted**

**Document:** **N4-020991**

**Title:** Response to LS on Network Integration Testing

**Source:** Siemens

**Presented:** Mr. Ulrich Wiehe

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020870**

**Title:** LS on Network Integration Testing

**Source:** SA2

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

- Ericsson: CN1 has discussed the LS and they don't want have upper bound
- Lucent: Do we have a mechanism for C-SCSF to report that the HSS has sent too much
- Chairman: We wait the LS from CN1 and we will decide after that how do we respond on this.

**Decision:** **Noted**

**Document:** **N4-020873**

**Title:** LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN"

**Source:** SA5

**Presented:** Mr. Miguel-Angel Pallares, Ericsson

**Discussion:**

**Decision:** **Noted**

**Document:** **N4-020874**

**Title:** LS on Diameter security issues

**Source:** SA5

**Presented:** Mr. Francois, Orange France

**Discussion:**

- Ericsson: The protocol supports hop-by-hop security
- Lucent: Our SA3 delegate has indicated that Network Domain Security should provide a good enough basis.
- Response LS N4-020994 (will be drafted by Nigel Berry, Lucent)

**Decision:** **Noted**

**Document:** **N4-020994**

**Title:** LS on on Diameter security issues

**Source:** Lucent

**Presented:** Mr. Nigel Berry

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020913**

**Title:** Reply LS on Status of protocol work on Ze interface (N4-020769)

**Source:** SA3

**Presented:** Mr. Ulrich Wiehe, Siemens

**Discussion:**

- Nokia will draft the WID Ze-protocol in CN4#16.

- Response LS is needed for SA3 in CN4#16, Jari Jansson - Nokia, will draft the LS.

**Decision:** Noted

**Document:** N4-021049  
**Title:** LS response on Sh interface signalling  
**Source:** CN1  
**Presented:** During CN1/CN4 joint session  
**Discussion:**

**Decision:** Noted

---

## 5 Work Item Management

**Document:** N4-020849  
**Title:** Discussion of changes in revised WID for PRESNC  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

-

**Decision:** Noted

**Document:** N4-020850  
**Title:** Revised WID for PRESNC  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- Chairman: Also 29.329 should be in "Affected existing specifications"
- Ericsson: The P?=Sh-interface mentioned in the impact on 29.328 isn't shown in the current architecture. We should raise this with SA2.

**Decision:** Revised to N4-021056

**Document:** N4-021056  
**Title:** Revised WID for PRESNC  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- CN1 will send the WI for approval.

**Decision:** Endorsed by CN4

**Document:** N4-020854  
**Title:** WID for Release 6 commonality and interoperability between IMSs  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- Lucent: We should endorse the document.
  - o Chairman: We need a revision of the document before we endorse it. Timetable for work needs some review!

**Decision:** Revised to N4-020996

**Document:** N4-020996  
**Title:** WID for Release 6 commonality and interoperability between IMSs  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- CN1 will send the WI for approval.
- If CN4 work is needed -> CN1 want CN4 create to our own WID.



**Decision:** Noted

**Document:** N4-020957

**Title:** WID for Media Gateway Control Function (MGCF) - IM Media Gateway

**Source:** Siemens

**Presented:** Mr. Peter Schmitt, Siemens

**Discussion:**

- IMC-Mc haven't been changed.
- NEC: The title should be different because Mn hasn't defined yet
  - o Title has changed as: " Mn protocol definition

**Decision:** Revised to N4-020997

**Document:** N4-020997

**Title:** WID for Media Gateway Control Function (MGCF) - IM Media Gateway

**Source:** Siemens

**Presented:**

**Discussion:**

**Decision:** Endorsed without presentation

---

## 6 Release 5

### 6.1 Network domain security

### 6.2 GPRS

**Document:** N4-020793

**Title:** Clarification re. Response messages

**CR:** 29.060-322

**Source:** Ericsson

**Presented:** Ms. Anna Jernryd

**Discussion:**

- Lucent: The second note should be in a different place.
  - o Ericsson: During drafting the CR we were thinking about it in a different place.
- Lucent: The second note is already specified in a different chapter of specification.
  - o Vodafone: If it's specified already, we do not need to duplicate it in here.
- Siemens: If we want to get the information here, we should remove the second note and add to reference to 10.1.1.
  - o Alcatel & Lucent: The are no sense to add reference if it already clarified before in specification.
- CN4 decided to move the second note from specification.
- The text of the first note will be modified to: "The source IP address of the echo response message shall be the same as the destination of the Echo request message."

**Decision:** Revised to N4-021008

**Document:** N4-021008

**Title:** Clarification re. Response messages

**CR:** 29.060-322r1

**Source:** Ericsson

**Presented:**

**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020984

**Title:** Clarification re. Version Not Supported message

**CR:** 29.060-323r1 Rel-6

**Source:** Ericsson

**Presented:** Ms. Anna Jernryd

**Discussion:**

- Alcatel: We shouldn't reference inside the specification.
- NEC: What is the benefit of this CR.
  - o It's clarification in this section.
- "Different GTP Versions" have be replaced by sub clause number.

**Decision:** **Revised to N4-0201009**

**Document:** **N4-021009**

**Title:** Clarification re. Version Not Supported message

**CR:** 29.060-323r2 Rel-6

**Source:** Ericsson

**Presented:**

**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020985**

**Title:** Clarification re. Version Not Supported message

**CR:** 29.060-324 Rel-5

**Source:** Ericsson

**Presented:** Ms. Anna Jernryd

**Discussion:**

- Siemens: Why didn't you make a correction to Rel-4 and Rel-5
  - o Ericsson: Do we have a need for that?
- CN4 decided to create the CRs also for Rel-4 & Rel-5
- Rel-4 CR only chapter 7.7.23 will be changed.
- Original CR cover page will be changed:
  - o Rel-5
  - o Category F
  - o TEI5

**Decision:** **Approved**

**Document:** **N4-021010**

**Title:** Clarification re. Version Not Supported message

**CR:** 29.060-349 Rel-4

**Source:** Ericsson

**Presented:**

**Discussion:**

- Category F, essential correction.

**Decision:** **Approved without presentation**

## 6.3 IP signalling transport

**Document:** **N4-020966**

**Title:** Discussion on M3UA

**Source:** NTT DoCoMo

**Presented:** Mr. Daisuke Igarashi, NTT DoCoMo

**Discussion:**

- CN4 decided: The spec 29.202 stays as it is, until M3UA is approved as RFC status.
- Vodafone: Informative annex would be useful for operator in doing their test work.
  - o Ericsson: This would not add much value.

**Decision:** **Principle Agreed by CN4**

## 6.4 Location Services

**Document:** **N4-020820**

**Title:** Liaison Statement on the GMLC-GMLC interface utilising IP as transport

**Source:** SerG

**Presented:** Mr. Ian Park, chairman

**Discussion:**

- Chairman: It seems odd that services experts are telling CN4 which protocol they ought to use!

**Decision:** **Noted**

**Document:** **N4-020866**

**Title:** Reply to Liaison Statement on use of IP as transport for the Inter-GMLC Interface

**Source:** SA2

**Presented:** Mr. Nick Russell, Vodafone

**Discussion:**

- Ericsson: The information to be transferred between GMLCs is similar to what already transferred LCS client and GMLC that we should use the similar protocol stack (IP based).
- Vodafone: The Vodafone has studied the problem that the LIF protocol stack needs to be adapted rather than adopted.
  - o Ericsson: The adaptation should be made by OMA (the successor to LIF)
    - Vodafone supported the proposal
- Chairman: We need to report back to CN plenary on the progress in OMA. We need to ask CN to ask PGC for authority to open a Liaison channel to OMA.
- Reply LS to SerG & SA2 & CN is N4-020999.

**Decision:** **Noted**

**Document:** **N4-020999**

**Title:** LS on use of IP as transport for the Inter-GMLC Interface

**Source:** Ericsson

**Presented:** Mr. Pompeo Santoro, Ericsson

**Discussion:**

**Decision:** **Approved**

---

## 7 Release 5

### 7.1 Subscriber data handling for the IMS

**Document:** **N4-020813**

**Title:** Clarification of implicit registration

**CR:** 29.228-001 Rel-5

**Source:** Nokia, Ericsson

**Presented:**

**Discussion:**

**Decision:** **Revised to N4-021020**

**Document:** **N4-021020**

**Title:** Clarification of implicit registration

**CR:** 29.228-001r1 Rel-5

**Source:** Nokia, Ericsson

**Presented:**

**Discussion:**

- Wordsmithing on new subclause 6.5.1.3.

**Decision:** **Revised to N4-021022**

**Document:** **N4-021022**

**Title:** Clarification of implicit registration

**CR:** 29.228-001r2 Rel-5

**Source:** Nokia, Ericsson

**Presented:**

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020814**

**Title:** Clarification of user registration status query

**CR:** 29.228-002 Rel-5

**Source:** Nokia

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

- This deals with the error case: PubID received in the request is not registered.
  - o None of the IDs for that user has an S-CSCF name assigned.
  - o Request was for deregistration.
- Agreed in principle, but the presentation needs to be restructured.
- Lucent: There is need to find a better word or phrase to replace "unregistered (i.e. registered ...".
  - o This should be the subject of a separate CR.

**Decision:** **Revised to N4-021023**

**Document:** **N4-021023**

**Title:** Clarification of user registration status query

**CR:** 29.228-002r1 Rel-5

**Source:** Nokia

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

**Decision:** **Agreed**

**Document:** **N4-020815**

**Title:** Clarification of HSS initiated update of user profile

**CR:** 29.228-003 Rel-5

**Source:** Nokia

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

- Second paragraph of 6.6.1 expanded.
- Reference to 6.6.3 corrected to 6.6.1.

**Decision:** **Revised to N4-021024**

**Document:** **N4-021024**

**Title:** Clarification of HSS initiated update of user profile

**CR:** 29.228-003r1 Rel-5

**Source:** Nokia

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

**Decision:** **Revised to N4-021024**

**Document:** **N4-021021**

**Title:** Conditionality of the S-CSCF name in MAR command

**CR:** 29.228-004r1 Rel-5

**Source:** Nokia

**Presented:** Mr. Kalle Tammi, Nokia

**Discussion:**

- First "+" bullet should be subdivided to distinguish between the handling for the registered state and the handling for the unregistered state.
- Nokia proposes a more radical approach:
  - o restructuring of the whole of numbered point 5.

**Decision:** **Revised to N4-021025**

**Document:** **N4-021025**

**Title:** Clarification of MAR command  
**CR:** 29.228-004r2 Rel-5  
**Source:** Nokia, Ericsson  
**Presented:** Mr. Kalle Tammi, Nokia  
**Discussion:**

**Decision:** **Agreed**

**Document:** **N4-020817**  
**Title:** Conditionality of the SIP-Auth-Data-Item in MAA command  
**CR:** 29.228-005 Rel-5  
**Source:** Nokia  
**Presented:** Mr. Kalle Tammi, Nokia  
**Discussion:**

- The para "otherwise ..." against Authentication Data is redundant
- Add descriptive text to the Number Authentication Items IE.
- Reference is needed on the cover sheet to the linked CR to 29.229.

**Decision:** **Revised to N4-021026**

**Document:** **N4-021026**  
**Title:** Conditionality of the SIP-Auth-Data-Item in MAA command  
**CR:** 29.228-005r1 Rel-5  
**Source:** Nokia  
**Presented:** Mr. Kalle Tammi, Nokia  
**Discussion:**

- Cover sheet should not show linkage to 29.229

**Decision:** **Agreed**

**Document:** **N4-021027**  
**Title:** Editorial mistake in the definition of command MAA  
**CR:** 29.229-005r1 Rel-5  
**Source:** Nokia, Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- N4-021026 there shouldn't be any link to N4-021027.

**Decision:** **Agreed**

**Document:** **N4-020851**  
**Title:** Definition of the Subscribed media parameter  
**CR:** 29.228-006 Rel-5  
**Source:** Orange France  
**Presented:** Mr. Francois Dronne, Orange France  
**Discussion:**

- Category B – revised to category F. Cover sheet should also show impact (or not) on test & O&M specs.
- Description of "Direction-tag" should replace "needed" with "authorised".
- "Codec" row should have "codecs" in the description column.
- Lucent: Is there an impact on annex E (table E.2)?
  - o Offline check required.
- Ericsson: 23.228 is not clear about how the media are managed – there are internal inconsistencies, sometimes it requires management of codecs, sometimes not... Should codec management be handled in the P-CSCF (i.e. visited network) or the S-CSCF (i.e. home network)?
  - o Orange France: We should agree this CR and send an LS to SA2.
- Ericsson is concerned about the restriction in the text after the table.
  - o CN4 agreed that we should replace the text with clarification that if a subscribed media type allows the use of different codecs with different bandwidth requirements then it may be necessary to have multiple instances of the subscribed media class to define the bandwidth authorised for each codec.

- Ericsson: The information should not be encoded, so that intermediate nodes can act on it if needed.
- Ericsson: We need an update to the XML schema for this change. How should we handle this?
  - o Orange France: we should approve the CR this week, with the assurance that the XML files will be provided in time for presentation to CN #17.
  - o Ericsson: It would be better to wait until we have the response from SA2 on our proposed changes.
- CN4 agreed that Orange France should provide the complete package, including XML schema, by 16 August, so we can send it as a CN4 input to CN #17.

**Decision:** Revised to N4-021028

**Document:** N4-021028

**Title:** Definition of the Subscribed media parameter

**CR:** 29.228-006r1 Rel-5

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

- In table E.2, "codec", "direction tag" and "max bandwidth" should be 0 to .
- In table E.2, CoreNetworkServiceAuthorisation should be 1 to n.
- Names of parameters in SDP should be in quotation marks

**Decision:** Revised to N4-021096

**Document:** N4-021096

**Title:** Definition of the Subscribed media parameter

**CR:** 29.228-006r2 Rel-5

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

**Decision:** Approved

**Document:** N4-020852

**Title:** Definition of the Subscribed media parameter

**CR:** 23.008-055 Rel-5

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

- Category B – revised to category F. Cover sheet should also show impact (or not) on test & O&M specs.
- Lucent raises a concern that the functional linkage between the QoS for the transport layer (see 2.13.12) and the requirements of the IMS subscribed media needs to be made visible.
- Nokia: The summary table in section 5.3 needs to be updated to add the subscribed media.
- Ericsson: A reference to 29.228 should be added.

**Decision:** Revised to N4-021030

**Document:** N4-021030

**Title:** Definition of the Subscribed media parameter

**CR:** 23.008-055r1 Rel-5

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

**Decision:** Agreed

**Document:** N4-021106

**Title:** LS to SA2 & CN1 on Subscribed Media Types

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

- Lucent: We should ask CN1 to study the possible need for correlation between the PS subscribed QoS and the IMS subscribed media.
  - o Orange France: We believe it's not needed.
- Orange France: We could add CN3 in cc-list.
  - o Agreed by meeting

**Decision:** Revised to N-021107

**Document:** N4-021107

**Title:** LS to SA2 & CN1 on Subscribed Media Types

**Source:** Orange France

**Presented:** Mr. Francois Dronne, Orange France

**Discussion:**

**Decision:** Agreed without presentation

### 7.1.1 HSS – CSCF (Cx) & SLF – CSCF (Dx) interfaces

**Document:** N4-020914

**Title:** IMS authentication vector distribution on the Cx interface

**Source:** SA3

**Presented:** Mr. Ian Park, Vodafone

**Discussion:**

- Response LS to SA3 (will be drafted by Miguel-Angel Pallares, Ericsson)

**Decision:** Noted

**Document:** N4-021031

**Title:** LS to SA3 on IMS authentication vector distribution on the Cx interface

**Source:** Ericsson

**Presented:** Mr. Miguel-Angel Pallares, Ericsson

**Discussion:**

**Decision:** Approved

**Document:** N4-020853

**Title:** To add a reference to the new IETF RFC on SCTP checksum

**CR:** 29.229-001 Rel-5

**Source:** Lucent

**Presented:** Mr. Nigel Berry, Lucent

**Discussion:**

**Decision:** Approved

**Document:** N4-020861

**Title:** Overload Control on the Cx and Dx interfaces

**CR:** 29.229-002 Rel-5

**Source:** Nortel Networks

**Presented:** Dr. Daniel Warren, Nortel Networks

**Discussion:**

- Category B.
- This is aimed at control of overload within the node rather than signalling channel overload.
- Nokia oppose the CR as unnecessary. The Diameter protocol already has the ability for one node to signal to another that it cannot process a request.
  - o Nortel want to make it clear that the rules which are defined for MAP (setting priority for discarding messages) have no counterpart on the Cx interface.
- Siemens also oppose the change. It makes the situation worse.
  - o Ericsson support Siemen's opinion.
  - o Ericsson: We should do better to indicate that the result code indicating overload may be used.

- Nokia: Since the Diameter base protocol defines this procedure, we don't need to describe in in 29.229.

**Decision:** **Rejected**

**Document:** **N4-020896**  
**Title:** Wrong format of Charging Function Addresses  
**CR:** 29.229-003 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020897**  
**Title:** Syntax of Public-Identity AVP  
**CR:** 29.228-007 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Nokia: Is there a consequential change to 23.008.
  - o Ericsson will check offline.
  - o Nokia also asks for a check against 23.228.

**Decision:** **Revised to N4-021081**

**Document:** **N4-021081**  
**Title:** Syntax of Public-Identity AVP  
**CR:** 29.228-007r1 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Withdrawn**

**Document:** **N4-020898**  
**Title:** Syntax of Public-Identity AVP  
**CR:** 29.229-004 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Revised to N4-021085**

**Document:** **N4-021085**  
**Title:** Syntax of Public-Identity AVP  
**CR:** 29.229-004r1 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Withdrawn**

**Document:** **N4-020875**  
**Title:** LS reply on "3GPP-specific Diameter applications"  
**Source:** SA5  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Withdrawn**

**Document:** **N4-020899**  
**Title:** Support of vendor-specific commands in Diameter base protocol



**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Ericsson: The process of checking for clash/overlap between AVPs used by different applications has yet to be formalised
- Companies who want to define new AVPs are also asked to check for the possibility to re-use existing AVPs.
- The current position is that IETF allow us to use vendor-specific AVPs, but if we want to define new command codes these have to be taken from a block of "experimental" codes on which we have a short lease.
  - o Ericsson: We can always ask for application IDs from IANA to provide added security.
- On the LS: we will send a copy to John Meredith (though not formally cc to the MCC). Siemens ask for the "in the interim" to be revised to make it clear that the codes we have allocated are stable in the long term.
  - o Ericsson: We need to define (request from IANA) an application ID for 3GPP Cx/Dx interface protocol (this would also cover accounting). We should state this in the LS.
- Material will transfer to N4-021032 and update it according to the discussion.

**Decision:** **Approved**

**Document:** **N4-021032**  
**Title:** LS to SA5 on Support of vendor specific commands in Diameter  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** **Approved**

### 7.1.2 HSS – SIP AS (Sh) interface

**Document:** **N4-020869**  
**Title:** Clarification regarding Location Information in IMS  
**Source:** SA2  
**Presented:** Mr. Kalle Tammi, Nokia  
**Discussion:**

**Decision:** **Noted**

**Document:** **N4-020876**  
**Title:** LS on inclusion of CCF/ECF addresses on Sh interface  
**Source:** SA5  
**Presented:** Mr. Toshiyuki Tamura, NEC  
**Discussion:**

- Ericsson: CN1 think that there may be a different way to provide the SCF/ECF addresses without using the Sh interface.

**Decision:** **Noted**

**Document:** **N4-020844**  
**Title:** The Correction of Section 7 Numbering and internal referencing  
**CR:** 29.328-001 Rel-5  
**Source:** Lucent, Vodafone  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- Source will revise to undo the renumbering of subclause headings, and correct references so they point to the existing subclause numbers.

**Decision:** **Revised to N4-021033**

**Document:** **N4-021033**  
**Title:** The Correction of Section 7 Numbering and internal referencing

**CR:** 29.328-001r1 Rel-5  
**Source:** Lucent, Vodafone  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020862**  
**Title:** Overload Control on the Sh interface  
**CR:** 29.329-001 Rel-5  
**Source:** Nortel Networks  
**Presented:**  
**Discussion:**

**Decision:** **Withdrawn**

**Document:** **N4-020900**  
**Title:** Cancellation of subscriptions to notifications  
**CR:** 29.328-002 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Title will be changed to reflect broader scope

**Decision:** **Revised to N4-021034**

**Document:** **N4-021034**  
**Title:** Correction of handling of subscriptions to notifications  
**CR:** 29.328-002r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020901**  
**Title:** Cancellation of subscriptions to notifications  
**CR:** 29.328-002 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Title will be changed to reflect broader scope

**Decision:** **Revised to N4-021035**

**Document:** **N4-021035**  
**Title:** Cancellation of subscriptions to notifications  
**CR:** 29.328-002r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020902**  
**Title:** Definition of location information for Sh interface  
**CR:** 29.329-003 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Orange France ask for the ability for the AS to request active location retrieval.
  - o Agreed by meeting
    - After agreement there is the need for a linked CR to 29.329.

- This can cover in a revision of N4-020904.
- Nokia ask whether we have accepted the principle of the mapping tables in annex D.
  - o Not yet, but CN4 decided to accept the principle.
- CN4 agreed that **if the HSS communicates with the MSC/VLR or SGSN** to retrieve location info, it shall use the MAP signalling procedures.
  - o Refine the text is needed in 7.6.6 to clarify this condition.
- Lucent ask about the binary encoding of the information in the location number.
  - o Should CN4 expect the SIP AS to be able to cope with the location number coded as in Q.763? It seems we should.
- Orange France: The MSC number is not part of the location info as defined in 23.018.
- Orange France: Location Area ID is present in UML model but not in subclause 7.6.6.1.

**Decision:** Revised to N4-021036

**Document:** N4-021036  
**Title:** Definition of location information for Sh interface  
**CR:** 29.329-003r1 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** Approved

**Document:** N4-020987  
**Title:** Definition of user state for Sh interface  
**CR:** 29.328-004r1 Rel-5  
**Source:** Ericsson, VOdafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Do we want the PS state to be an enumeration?
  - o In 23.078, if the user has PDP context(s) active, the state info includes info about the active contexts.
  - o Chairman: We can accept this.
  - o Siemens can also accept it provided that we add a note that this is a difference from what can be carried in the MAP protocol.
- Nokia: The table for annex D in this CR is different from the table for annex D in 0902, the specific example of location number.
  - o Ericsson: The presence of location number in this CR is an error. Manual reconciliation will be needed.
- Siemens: There is divergence between subclause 7.6.7 and 23.078.
  - o CN4 agreed to expand text in 7.6.7 to point to the Subscriber state and PS domain subscriber state in 23.078.

**Decision:** Revised to N4-021037

**Document:** N4-021037  
**Title:** Definition of user state for Sh interface  
**CR:** 29.328-004r2 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** Approved

**Document:** N4-020904  
**Title:** Addition of Requested-Domain indication to User-Data-Request  
**CR:** 29.329-003 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

- Ericsson: We should revise this CR to cover the possibility for the AS to request active location retrieval.

**Decision:** Revised to N4-021038

**Document:** N4-021038  
**Title:** Addition of AVPs to User-Data-Request  
**CR:** 29.329-003r1 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** Approved

**Document:** N4-020905  
**Title:** Missing references to XML schema for Sh interface  
**CR:** 29.328-005 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** Approved

**Document:** N4-020906  
**Title:** Extensibility of XML schema for Sh interface  
**CR:** 29.328-006 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Miguel-Angel Pallares, Ericsson  
**Discussion:**

**Decision:** Approved

### 7.1.3 HSS – IM-SSF (Si) interface

**Document:** N4-020809  
**Title:** The support of the MAP Si interface  
**CR:** 29.002-415r6 Rel-5  
**Source:** Lucent, mmO2  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

**Decision:** Approved

**Document:** N4-020810  
**Title:** Extensions to ATM for CAMEL control of IMS  
**CR:** 29.002-443r2 Rel-5  
**Source:** Lucent, mmO2  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

**Decision:** Approved

**Document:** N4-020811  
**Title:** SCCP sub-system Number for IM-SSF  
**CR:** 23.003-046r1 Rel-5  
**Source:** Lucent, mmO2  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

**Decision:** Approved

## 7.2 Camel 4

**Document:** N4-020965  
**Title:** Setting of Leg1\_Status Variable  
**CR:** 23.018-111 Rel-5

**Source:** Vodafone  
**Presented:** Mr. Chris Hardy, Vodafone  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020981**  
**Title:** Correction of handling of MT-SMS in the SGSN  
**CR:** 29.002-474 Rel-5  
**Source:** Vodafone  
**Presented:** Mr. Chris Hardy, Vodafone  
**Discussion:**

- Alcatel: We need to take different exits from the macro depending on whether CAMEL handling has been invoked or not. We need also to check the "MMTS" indicator if we bypass the CAMEL reporting.
- CN2 will accept N4-021050 without presentation.

**Decision:** **Revised to N4-021050**

**Document:** **N4-021050**  
**Title:** Correction of handling of MT-SMS in the SGSN  
**CR:** 29.002-474r1 Rel-5  
**Source:** Vodafone  
**Presented:**  
**Discussion:**

**Decision:** **Postponed to CN4#16**

**Document:** **N4-021012**  
**Title:** The Organisation of CAMEL IMS Data  
**CR:** 23.008-054r1 Rel-5  
**Source:** Lucent, Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021044**  
**Title:** Handling of partial implementations of CAMEL phase 4  
**CR:** 23.078-416r1 Rel-5  
**Source:** Alcatel  
**Presented:** Mr. Christian Homann, Alcatel  
**Discussion:**

- Nokia: What is the significance of the optionality of the components in the Offered CAMEL 4 functionalities structure.
  - o Alcatel: It is up to the SSF operator to define whether to populate these information elements.
- Vodafone: The misuse of the "O", which is specifically service logic dependent
- Vodafone & Siemens: It should be "S".
- 

**Decision:** **Revised to N4-021091**

**Document:** **N4-021091**  
**Title:** Handling of partial implementations of CAMEL phase 4  
**CR:** 23.078-416r2 Rel-5  
**Source:** Alcatel  
**Presented:** Mr. Christian Homann, Alcatel  
**Discussion:**

- Siemens isn't happy about the updates to M-CSI.
  - o T-Mobil: The value of reporting changes of capability when the MS moves from one serving entity to another.
    - The example of the MS moving to an MSC which supports ICA
  - o This needs to be reported to the gsmSCF.

- Nokia: The gsmSCF address in the M-CSI is not necessarily the one which needs to know about change of location.
- T-Mobil want to indicate M-CSI functionality to the gsmSCF. M-CSI capability to the HLR is not so critical. This means that we keep the indication of the M-CSI going from VLR to gsmSCF, but remove them from the VLR to HLR IFs. The logical consequence of this is that the HLR can't send any indication of offered M-CSI in the ATSI ack message.
- T-Mobil: want to omit the reporting of offered support of M-CSI from the information carried in the MM-event report.
- Siemens: There is no difference in the M-CSI between CAMEL phase 3 & CAMEL phase 4.
  - Alcatel challenge this analysis.
- CN2 & CN4 joint meeting agreed: There is some difference between the M-CSI for CAMEL phase 3 & CAMEL phase 4, but support for the CAMEL phase 4 M-CSI is mandatory for all implementations which claim support of CAMEL phase 4.

**Decision:** Revised to N4-021093

**Document:** N4-021093

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 23.078-416r2 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

- Alcatel: Email approval is needed on the CN2 list, to allow Vodafone delegate chance to comment!

**Decision:** Noted by CN4

**Document:** N4-021044

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 29.002-479 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

**Decision:** Revised to N4-021092

**Document:** N4-021092

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 29.002-479r1 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

- Systematic replacement is needed of "capabilities" with "CSIs".
- Changes to track items marked FFS in the stage 2 are absent.
- 8.8.1.3: parameter is also used in the SGSN.
- Tables in service definitions should be tidied up to have one parameter per row
- Tag numbers and code points of enumerated types & bit strings should be tidied up.
- Entries for M-CSI should be deleted from the Offered CAMEL 4 capabilities

**Decision:** Revised to N4-021094

**Document:** N4-021094

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 29.002-479r1 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

- Will go for email approval by CN4. To be posted on CN4 list by 17:00 CEST on 5 August. If no objections are received on the CN4 list by 17:00 CEST on 12 August it becomes an agreed CN4 output to CN #17. CAMEL phase 4 split documents should be separated for presentation to CN!

**Decision:** **Approved 16<sup>th</sup> of August**

**Document:** **N4-021046**

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 23.008-056 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

- Systematic replacement is needed of "capabilities" with "CSIs".
- Siemens: The existing table in 2.14.2.1 there is an entry showing support of CAMEL phase 4 for the M-CSI Negotiated CAMEL Capability Handling. We need to delete the "4" possibility. The same applies to the SS-CSI.

**Decision:** **Revised to N4-021095**

**Document:** **N4-021095**

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 23.008-056 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

- Will go for email approval by CN4. To be posted on CN4 list by 17:00 CEST on 5 August. If no objections are received on the CN4 list by 17:00 CEST on 12 August it becomes an agreed CN4 output to CN #17. CAMEL phase 4 split documents should be separated for presentation to CN!

**Decision:** **Approved 16<sup>th</sup> of August**

**Document:** **N4-021047**

**Title:** Removal of ChargingNotification feature

**CR:** 29.002-480 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021048**

**Title:** Wrong CAMEL capability handling for O-CSI, T-CSI, VT-CSI & D-CSI

**CR:** 23.008-057 Rel-5

**Source:** Alcatel

**Presented:** Mr. Christian Homann, Alcatel

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021048**

**Title:** Handling of partial implementations of CAMEL phase 4

**CR:** 23.078-451 Rel-5

**Source:** Vodafone

**Presented:**

**Discussion:**

**Decision:** **Withdrawn**

## 7.3 GPRS

**Document:** **N4-020804**

**Title:** LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN

**Source:** SA5

**Presented:** Mr. Markus Berg, Alcatel

**Discussion:**

**Decision:** Noted

**Document:** N4-020868

**Title:** Liaison statement on IMS Sessions and PDP Contexts (Response on "Distribution of IMS Charging ID (ICID) from GGSN to SGSN")

**Source:** SA2

**Presented:** Mr. Peter Schmitt, Siemens

**Discussion:**

**Decision:** Noted

**Document:** N4-020867

**Title:** Response to Liaison Statement on Support of IPv6 on Lu

**Source:** SA2

**Presented:** Mr. Peter Schmitt, Siemens

**Discussion:**

**Decision:** Noted

**Document:** N4-020907

**Title:** Support of mandatory IPv6 on the Lu interface

**CR:** 29.060-333 Rel-5

**Source:** Nokia

**Presented:** Mr. Seppo Kauntola, Nokia

**Discussion:**

- Nokia: We have done a CR before we saw LS (N4-020806) from SA2. We want to revise the CR after comments.
  - o After discussion meeting decided to keep the original CR.
- Lucent: We should postpone the CR to next meeting and ask more clarifications from SA2.
- Ericsson: We can't accept the change in text "IPv4 is optional"
- Siemens: We should wait the RAN3 response to SA2 before we make a decision.
- Response LS to SA2 & RAN3 N4-020995 (revised N4-021097), (Giorgio Gulbani, Nokia)

**Decision:** Postponed to CN4#16

**Document:** N4-020995

**Title:** Response to Liaison Statement on Support of IPv6 on Lu

**Source:** Nokia

**Presented:** Mr. Giorgio Gulbani, Nokia

**Discussion:**

- Lucent: Is it possible to get for more specific request in the "action"?
  - o Nokia: There is the need for alignment of specification.

**Decision:** Revised to N4-021097

**Document:** N4-021097

**Title:** Response to Liaison Statement on Support of IPv6 on Lu

**Source:** Nokia

**Presented:** Mr. SeppoKauntola, Nokia

**Discussion:**

**Decision:** Approved

**Document:** N4-020986

**Title:** RAB Setup Information for IPv6

**CR:** 29.060-325r1 Rel-5

**Source:** Ericsson

**Presented:** Ms. Anna Jernryd, Ericsson

**Discussion:**

- Category will be changed as F.
- "and there is at least one RAB assigned in the new SGSN" is added at the end of the proposed text.



**Decision:** Revised to N4-021011

**Document:** N4-021011  
**Title:** RAB Setup Information for IPv6  
**CR:** 29.060-325r2 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020877  
**Title:** Addition of PCO IE to Update PDP context procedures  
**CR:** 29.060-329 Rel-5  
**Source:** Ericsson, Nokia  
**Presented:** Ms. Anna Jernryd, Ericsson  
**Discussion:**

**Decision:** Revised to N4-021110

**Document:** N4-021110  
**Title:** Addition of PCO IE to Update PDP context procedures  
**CR:** 29.060-329r1 Rel-5  
**Source:** Ericsson, Nokia  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020882  
**Title:** Addition of PCO IE to Update PDP context procedures  
**Source:** Nokia  
**Presented:** Mr. Georgi Gulbani, Nokia  
**Discussion:**

- Lucent: The next event should be specified.
  - o Agreed by meeting
- Ericsson: At the "Authentication failure" old SGSN should keep all PDP contexts.
  - o Agreed by Nokia
- Principle agreed by CN4
- Nokia will submit the CRs for next meeting.

**Decision:** Noted

**Document:** N4-020998  
**Title:** Introduction of PCO in more session management messages  
**CR:** 29.060-348 Rel-5  
**Source:** Ericsson, Nokia  
**Presented:** Ms. Anna Jernryd, Ericsson  
**Discussion:**

- Vodafone: In section 7.3.6 "The Protocol Configuration Options (PCO) information element **may** be included in the response when the GGSN provides the MS with application specific parameters." **may** have to be changed as **shall**.
  - o The same change is made in section 7.3.5 - **may** have to be changed as **shall**.
  - o After discussion text in the new paragraphs were improved.
- Similar changes have to be done as N4-021110.

**Decision:** Revised to N4-021105

**Document:** N4-021105  
**Title:** Introduction of PCO in more session management messages  
**CR:** 29.060-348r1 Rel-5  
**Source:** Ericsson, Nokia

**Presented:** Ms. Anna Jernryd, Ericsson

**Discussion:**

- Alcatel: Do we need to change the Update PDP context message network.
  - o Ericsson: After check with CN1 expert it's found to be unnecessary.
- NEC: The change in Rel-5, but not in R99 & Rel-4 will itself incompatibility problems.
- Lucent: We would like to see more clearer statement of requirements from CN1.
- Ericsson: We would like to review the CR and make sure it's properly aligned with the CR agreed in CN1.
- The later copy of N4-021105 was a revision of the earlier one!! Formality is that 1105 is revised to 1109, which will go for email approval

**Decision:** Revised to N4-021109

**Document:** N4-021109

**Title:** Introduction of PCO in more session management messages

**CR:** 29.060-348r2 Rel-5

**Source:** Ericsson, Nokia

**Presented:** Ms. Anna Jernryd, Ericsson

**Discussion:**

- In cover sheet summary of the changes have to be updated.
- Will go for email approval by CN4. To be posted on CN4 list by 17:00 CEST on 5 August. If no objections are received on the CN4 list by 17:00 CEST on 16 August it becomes an agreed CN4 output to CN #17.

**Decision:** Postponed to CN4#16 after e-mail discussion 16<sup>th</sup> of August

## 7.4 LCS in the PS domain

## 7.5 Bearer Independent Architecture

**Document:** N4-020801

**Title:** RAN3 final decision on exchange of addresses on lu-CS using IP Transport Option in Release 5

**Source:** Nortel

**Presented:** Mr. Dan Warren, Nortel

**Discussion:**

-

**Decision:** Noted

**Document:** N4-020910

**Title:** Enabling of IP bearer in lu-cs interface

**CR:**

**Source:** Nokia

**Presented:** Mr. Seppo Kauntola, Nokia

**Discussion:**

- Siemens: There are lot of open issues which are not covered yet.
- Ericsson: What about transparent and support, is there a different handling?
- Nokia: We are open for proposals and we would like revise the CR for next meeting.
- Ericsson: There aren't possibilities to agree principles in here because we have to send LS to RAN3 to resolve open issues.
- RAN decision (N4-020801) breaks the principle of BICC procedure which we have developed.
- LS to RAN3 to highlighting the open issues we have problem
  - o N4-021071

**Decision:** Noted

**Document:** N4-021071

**Title:** Reply LS on Request for clarification related to raised questions regarding "Exchange of addresses on lu-CS using IP Transport Option in Release 5"

**Source:** Nokia, Ericsson, Siemens

**Presented:** Mr. Seppo Kauntola, Nokia

**Discussion:**

-

**Decision:** **Approved**

**Document:** **N4-020911**

**Title:** lu-cs over IP related corrections on 23.205

**CR:** 23.205-031

**Source:** Nokia

**Presented:** Mr. Seppo Kauntola, Nokia

**Discussion:**

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020912**

**Title:** lu-cs over IP related corrections on 29.232

**CR:** 29.232-042

**Source:** Nokia

**Presented:** Mr. Seppo Kauntola, Nokia

**Discussion:**

**Decision:** **Postponed to CN4#16**

## 7.6 SMS

**Document:** **N4-020979**

**Title:** Description of MT SM delivery via two serving nodes

**CR:** 29.002-442r1

**Source:** Vodafone

**Presented:**

**Discussion:**

- Same comments concerning the exits from MT\_SM\_Transfer\_MSC as for the SGSN.
- "MSC" at the LHS of signal flow diagrams should be "MS"
- Some instances of "GMSC" which should be "SMS GMSC"

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020989**

**Title:** Indicating the MT-SMS capability of the MSC/VLR & SGSN to the HLR

**CR:** Discussion paper

**Source:** Vodafone

**Presented:**

**Discussion:**

- NTT DoCoMo: What about R97 & R98
  - o Vodafone: We have noticed the problem, but we have done compromise to offer corrections starting from R99.
- Siemens: The MT SMS service will be sent in the ISD to the SGSN, so the HLR can determine from the echo of the MT SMS teleservice that the SGSN doesn't support MT SMS.
- Ericsson: The HLR can't rely on the serving node implementing the upgrade, so it might wrongly assume that the serving node doesn't support MT SMS, and block delivery via that node.

**Decision:** **Noted**

## 7.7 ASN.1 updates to 29.002 & 24.080

**Document:** **N4-020842**

**Title:** Compatible upgrade to ASN.1:1997 of 24.080

**Source:** Siemens, France Telecom

**Presented:** Mr. Ulrich Wiehe, Siemens

**Discussion:**

- Corrections are made in section:
  - o 4.2.2
  - o 4.4.3

**Decision:** Revised to N4-021000

**Document:** N4-021000  
**Title:** Compatible upgrade to ASN.1:1997 of 24.080  
**Source:** Siemens, France Telecom  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020843  
**Title:** Compatible upgrade to ASN.1:1997 of 29.002  
**Source:** Siemens, France Telecom  
**Presented:** Mr. Ulrich Wiehe, Siemens  
**Discussion:**

**Decision:** Revised to N4-021001

**Document:** N4-021001  
**Title:** Compatible upgrade to ASN.1:1997 of 29.002  
**Source:** Siemens, France Telecom  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

## 7.8 Network sharing

**Document:** N4-020818  
**Title:** LS on Shared Networks in response to LS (N4-020699) on Shared Networks from TSG CN WG4  
**Source:** RAN3  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

- LS was presented already in CN1-CN4 joint session. It remitted to CN4 for further treatment.
- For Rel-5 the IMSI is not guaranteed to be available in the target MSC after handover, but is known in anchor MSC.
- For Rel-6 the subscriber data is not available in the target MSC.
- Ericsson: The access information will be sent from anchor MSC in the target MSC at handover. (CN1 23.009 CR agreed earlier in the CN1 meeting).

**Decision:** Noted

**Document:** N4-020865  
**Title:** LS on Shared Networks – Outcome of RAN3 #30  
**Source:** RAN3  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

- Ericsson: CRs 855/856/857 cover the first action for CN4.
- Lucent share Vodafone's concern about the DB is coming too big.
  - o Majority of the companies have a different view.
  - o Nortel: The best thing to do it is maintain a DB in anchor MSC.
- LS to RAN3 drafted by Mr. Pompeo Santoro, Ericsson.
  - o N4-021083

**Decision:** Noted

**Document:** N4-021083

**Title:** LS on Shared Networks – Outcome of RAN3 #30  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** **Revised to N4-021098**

**Document:** **N4-021098**  
**Title:** LS on Shared Networks – Outcome of RAN3 #30  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020872**  
**Title:** LS on Shared Networks in response to LS (N4-020699) on Shared Networks from TSG CN WG4  
**Source:** SA2  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

- Nokia: We should use BSSAP to carry SNA information, because carrying it in MAP it will become obsolete with the enhancement to network sharing in Rel-6.
  - o Ericsson: The amount of SNA information may be too much to fit in single BSSAP message of 200 octets.
  - o Nortel supports Nokia's proposal.
- Nokia: Will we update the SNA information in RANAP and MAP.
  - o We will decide on that when we will come to the MAP CR.
- CN4 opinion: The majority view was that BSSAP solution is the better way to solve a problem, but more time is needed to resolve a problem.

**Decision:** **Noted**

**Document:** **N4-020855**  
**Title:** Support for Shared Network in connected mode: definition of SNA  
**CR:** 23.003-050  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

- Text of second paragraph 12.6 modified.
- Alcatel: The length of SNAC should be defined.
  - o Ericsson: RANAP specifications define the length.

**Decision:** **Revised to N4-021101**

**Document:** **N4-021101**  
**Title:** Support for Shared Network in connected mode: definition of SNA  
**CR:** 23.003-050r1  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

- Text of second paragraph 12.6 modified.
- Alcatel: The length of SNAC should be defined.
  - o Ericsson: RANAP specifications define the length.

△ **A different CR packet with N4-021102 to CN#17 for approval**

**Decision:** **Approved without presentation**

**Document:** **N4-020856**  
**Title:** Support for Shared Network in connected mode  
**CR:** 29.002-466  
**Source:** Ericsson

**Presented:** Mr. Pompeo Santoro, Ericsson

**Discussion:**

- Nokia: We shouldn't transport the RANAP encoded information as a MAP parameter.
  - o Accepted by Ericsson.
    - The impact of this is that we would transport SNAC access information at the MAP level if the encapsulated access protocol is BSSAP, but not if the encapsulated access protocol is RANAP.
- Orange France: Do we really intend to use the encapsulated RANAP protocol to carry information which is used by the MSC rather than by the RNS.
  - o Ericsson: That is what we've just decided! The RNC also uses the SNA access information, though the BSS won't.

**Decision:** **Revised to N4-021102**

**Document:** **N4-021102**

**Title:** Support for Shared Network in connected mode

**CR:** 29.002-466r1

**Source:** Ericsson

**Presented:**

**Discussion:**

△ **A different CR packet with N4-021101 to CN#17 for approval**

**Decision:** **Approved without presentation**

**Document:** **N4-020857**

**Title:** Support for Shared Network in connected mode

**CR:** 29.010-058

**Source:** Ericsson

**Presented:** Mr. Pompeo Santoro, Ericsson

**Discussion:**

- Alcatel: Do the linked CR to 23.009 depends to the choice between BSSAP vs. MAP transport?
  - o Ericsson: No it does not.
- Nokia: 4.8.5.10 needs to be changed to reflect the decision to transport information only in encapsulated RANAP.

**Decision:** **Revised to N4-021103**

**Document:** **N4-021103**

**Title:** Support for Shared Network in connected mode

**CR:** 29.010-058r1

**Source:** Ericsson

**Presented:** Mr. Pompeo Santoro, Ericsson

**Discussion:**

- 2 CR packet sets will be presented in
  - o 1101 & 1102 & 1103 (MAP)
  - o 1101 & 1104 (BSSAP)

**Decision:** **Approved**

**Document:** **N4-021104**

**Title:** Support for Shared Network in connected mode

**CR:** 29.010-075r1

**Source:** Ericsson

**Presented:** Mr. Pompeo Santoro, Ericsson

**Discussion:**

- 2 CR packet sets will be presented in CN#17
  - o 1101 & 1102 & 1103 (MAP)
  - o 1101 & 1104 (BSSAP)

**Decision:** **Approved**

**Document:** N4-021082  
**Title:** Support for Shared Network Area  
**CR:** 23.009-080r1  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** Endorsed by CN4

**Document:** N4-021039  
**Title:** Determining the basic service for MT calls  
**CR:** 23.018-109  
**Source:** Vodafone  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

**Decision:** Approved

## 7.9 Basic call handling

**Document:** N4-021039  
**Title:** Determining the basic service for MT calls  
**CR:** 23.018-109  
**Source:** Vodafone  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

**Decision:** Approved

**Document:** N4-020808  
**Title:** Determining the basic service for MT calls  
**CR:** 23.083-010  
**Source:** Vodafone  
**Presented:** Mr. Ian Park, Vodafone  
**Discussion:**

**Decision:** Approved

**Document:** N4-020917  
**Title:** Minor corrections to Process ICH\_MSC  
**CR:** 23.018-010  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** Approved

## 7.10 TrFO/Codec control

## 7.11 Any Other Business

**Document:** N4-020914  
**Title:** Minor corrections to Process ICH\_MSC  
**CR:** 23.018-010  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** Approved

### 7.11.1 GERAN Iu mode

**Document:** N4-020821  
**Title:** Introduction of GERAN Iu-mode  
**CR:** 23.205-026r3 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Category of CR should be F.
- We shouldn't mandate the behaviour of the BSC in sending information to MSC server.
- Ericsson: We shouldn't indicate the supported codecs, because MAP support is not indicate yet.
  - o Siemens: It is covered in N4-020823.
- Nokia is unhappy "Selected codec is read by GERAN BSC from GERAN BSC container and not from NAS synchronisation indicator which may not always be available."
  - o Meeting decided to add text: "The MSC server shall not set the codec information in the NAS Synchronisation Indicator; instead it shall set codec information in the GERAN BSC container"

**Decision:** Revised to N4-021086

**Document:** N4-021086  
**Title:** Introduction of GERAN Iu-mode  
**CR:** 23.205-026r4 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** Approved

**Document:** N4-020822  
**Title:** Introduction of GERAN Iu-mode  
**CR:** 23.153-031r3 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Category should be F.

**Decision:** Revised to N4-021087

**Document:** N4-021087  
**Title:** Introduction of GERAN Iu-mode  
**CR:** 23.153-031r4 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020823  
**Title:** Introduction of GERAN classmark  
**CR:** 29.002-462 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Definition has improved in section 7.6.6.4.
- Siemens: The length of the GERAN classmark need only go to 87 octets.

**Decision:** Revised to N4-021088

**Document:** N4-021088  
**Title:** Introduction of GERAN classmark  
**CR:** 29.002-462r1 Rel-5



**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020934**  
**Title:** Introduction of GERAN lu-mode  
**CR:** 29.010-060 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Category have to be F.

**Decision:** **Approved**

### 7.11.2 Global Text Telephony

**Document:** **N4-020883**  
**Title:** Misalignment between TS 23205 and TS 29232 for Global Text Telephony  
**CR:** 23.205-029 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

- Nokia: CTM reporting function is useful only when the CTM pool in the Media Gateway.
  - o This will cover with a broader addition in N4-020884.
  - o Chairman: “,when the CTM pool is located in the Media Gateway.”
  - o Vodafone: “GTT data (according to ITU recommendation T.140) will be added.
- Nokia: The 29.232 v5.2.0 doesn't cover CTM reporting.
  - o Ericsson: Subclause 15.1.6 covers it.
    - Accepted by Nokia
- MG have to be changed as MGW
- Cover sheet have to be updated.

**Decision:** **Revised to N4-021073**

**Document:** **N4-021073**  
**Title:** Misalignment between TS 23205 and TS 29232 for Global Text Telephony  
**CR:** 23.205-029r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020886**  
**Title:** Alignment of text in TS 29.232 for Global Text Telephony.  
**CR:** 29.232-038 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

- Cover sheet have to be updated; other specs affected.

**Decision:** **Approved without presentation**

**Document:** **N4-020884**  
**Title:** Misalignment between TS 23.226 and TS 23.205 for Global Text Telephony  
**CR:** 23.205-030 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

- Ericsson and Nokia will draft the additional text for section 14.7.
- Coversheet have to be updated.

**Decision:** Revised to N4-021074

**Document:** N4-021074  
**Title:** Misalignment between TS 23.226 and TS 23.205 for Global Text Telephony  
**CR:** 23.205-030r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020885  
**Title:** Misalignment between TS 23.226 and TS 23.205 for Global Text Telephony  
**CR:** 23.205-030 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

**Decision:** Approved

**Document:** N4-020887  
**Title:** Alignment between prepare bearer and reserve bearer in TS 29.232 for Global Text Telephony  
**CR:** 29.232-038 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

**Decision:** Approved

### 7.11.3 Numbering & addressing

**Document:** N4-020892  
**Title:** Restructuring the IMEI to combine the TAC and FAC in Annex B  
**CR:** 23.003-053 Rel-5  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** Approved

### 7.11.4 MAP protocol

**Document:** N4-020893  
**Title:** Correction to the usage of "Roaming not allowed" error  
**CR:** 29.002-470 Rel-5  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

- Ericsson would like to see text to be added to indicate why the HLR operator shouldn't send this error. They want to specify that the MS would be denied both CS and PS access.
  - o Siemens support Ericsson's view

**Decision:** Revised to N4-021040

**Document:** N4-021040  
**Title:** Correction to the usage of "Roaming not allowed" error  
**CR:** 29.002-470r1 Rel-5  
**Source:** Vodafone  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020894**  
**Title:** Clarifications on Send Identification  
**CR:** 29.002-471 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

- NEC: The added text is duplication of SDLs, but they can live with that.
- Lucent & Siemens support the CR back to R99.
- CN4 agreed to generate R99 & Rel-4 CRs
- Consequences if not approved have to be clarified clearly.
- Siemens: ASN.1 comment against "segmentationProhibited" to be deleted.

**Decision:** **Revised to N4-021041**

**Document:** **N4-021043**  
**Title:** Clarifications on Send Identification  
**CR:** 29.002-477 R99  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021042**  
**Title:** Clarifications on Send Identification  
**CR:** 29.002-478 Rel-4  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021041**  
**Title:** Clarifications on Send Identification  
**CR:** 29.002-471r1 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021002**  
**Title:** ODB and CB for SMS  
**CR:** 29.002-475 Rel-5  
**Source:** NTT DoCoMo  
**Presented:**  
**Discussion:**

**Decision:** **Postponed to CN4#16**

**Document:** **N4-021005**  
**Title:** Correction of SDL to Location Service process description  
**CR:** 29.002-476 Rel-5  
**Source:** NTT Commware  
**Presented:**  
**Discussion:**

**Decision:** **Postponed to CN4#16**

### 7.11.5 Supplementary services protocol

**Document:** N4-020895  
**Title:** Correction of references to FACILITY information element  
**CR:** 24.080-024 Rel-5  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** Approved

### 7.11.6 Handover

**Document:** N4-020915  
**Title:** Encapsulation principle on the E interface  
**CR:** 29.010-059  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

- Nokia: We can't accept the principle that we should avoid relying on encapsulated information.
  - o Siemens & Lucent support Nokia's view.

**Decision:** Withdrawn

### 7.11.7 Supplementary services

**Document:** N4-020916  
**Title:** Correction of SDL's for Line Identification services  
**CR:** 23.081-003  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** Withdrawn

---

## 8 UMTS Release 4 & Release 99 maintenance

### 8.1 Location services

**Document:** N4-021075  
**Title:** Further clarification of triggering Location Acquisition procedure  
**CR:** 29.010-061r1 R99  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**

- Ericsson: If we are to recognise triggers for location determination besides MAP messages, the signal flows need to be updated.
- Ericsson: The changes should be covered in Stage 2.
- CN4 didn't agree this in an essential correction.
- Nokia withdrawn the CR after discussion.

**Decision:** Withdrawn

**Document:** N4-020953  
**Title:** Further clarification of parameter mapping in Location Acquisition procedure  
**CR:** 29.010-066 Rel-4  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**

- Ericsson: The parameter mapping is straightforward enough that we could live without the CR.

-  
**Decision:** **Withdrawn**

**Document:** **N4-020954**  
**Title:** Further clarification of parameter mapping in Location Acquisition procedure  
**CR:** 29.010-067 Rel-4  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**  
- Category F for Rel-5

**Decision:** **Approved**

**Document:** **N4-020955**  
**Title:** Exception handling for positioning methods MS Assisted E-OTD and MS Assisted OTDOA  
**CR:** 24.080-025 Rel-4  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**  
- Chairman: Why include the methods if they will always be rejected?  
- CR will be postponed for further study.

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020977**  
**Title:** Further clarification of cause mapping in LCS procedures  
**CR:** 29.010-070 Rel-4  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**  
- Vodafone challenge a need for CR. Is there really frequent and serious misoperation if CR is not approved?  
- Telling the GMLC that the selected method is not supported is not helpful, because the GMLC doesn't select the method.

**Decision:** **Withdrawn**

**Document:** **N4-020978**  
**Title:** Further clarification of cause mapping in LCS procedures  
**CR:** 29.010-071 Rel-5  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**  
- Ericsson: We should postpone the CR until we know the result of RAN3 CR.

**Decision:** **Postponed to CN4#16**

## 8.2 Bearer independent architecture

**Document:** **N4-020800**  
**Title:** Answer Liaison on Mandatory Use Of Transport Addresses sent by the MSC in a RAB Modification Request  
**Source:** RAN3  
**Presented:** Mr. Ian Park, Chairman  
**Discussion:**

**Decision:** **Noted**

**Document:** **N4-020847**  
**Title:** Termination point of RANAP Signalling and Bearer at the MSC Server (Mc)  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- Nokia: We don't see need for CR. Existing text is clear.
- Ericsson: We oppose the Rel-4 CR because the designer should use the whole specification set.
- CN4 decided that the specification set is clear enough.

**Decision:** **Noted**

**Document:** **N4-020908**  
**Title:** Termination ID Note  
**CR:** 29.232-040 Rel-4  
**Source:** Nokia  
**Presented:** Mr. Seppo Kauntola, Nokia  
**Discussion:**

- Lucent: The length of 8 octets could be too little.

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020930**  
**Title:** Correction on wrong message types for HO  
**CR:** 23.205-040 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Ericsson: More work is needed message flow directions for subsequent handover are wrong.
- Vodafone: We have difficulties to agree this as essential correction.
  - o Siemens: Designers will have difficulty working out how to do their implementation.
- Lucent & Ericsson also support CR as essential correction
  - o After discussion Vodafone also agreed the CR as essential correction.
- The new title will have: "Correction on wrong message handling for subsequent handover".

**Decision:** **Revised to N4-021057**

**Document:** **N4-021057**  
**Title:** Correction on wrong message handling for subsequent handover  
**CR:** 23.205-040r1 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021058**  
**Title:** Correction on wrong message handling for subsequent handover  
**CR:** 23.205-041r1 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020935**  
**Title:** Handling of CSD calls and Inter-MSR Relocation  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges  
**Discussion:**

**Decision:** **Noted**

**Document:** **N4-020936**  
**Title:** Missing Properties For CSD Calls

**CR:** 29.232-043 Rel-4  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

- CR numbers for 29.007 would be useful.
- Expand abbreviation "CSD" on the cover sheet.
- Formats and coding table needs to be updated.

**Decision:** **Revised to N4-021059**

**Document:** **N4-021059**  
**Title:** Missing Properties For CSD Calls  
**CR:** 29.232-043r1 Rel-4  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021060**  
**Title:** Missing Properties For CSD Calls  
**CR:** 29.232-044r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

## 8.3 GPRS

**Document:** **N4-020927**  
**Title:** Forward Relocation Response without 'RAB Setup Information' IE  
**CR:** 29.060-340 R99  
**Source:** Alcatel  
**Presented:** Mr. Markus Berg, Alcatel  
**Discussion:**

- Nokia: The possible solution could be to make a correction in section 7.7.39. Nokia's proposal is to send MT RAB assignment.
- In section 7.5.7: "and there is any RAB assigned in the new SGSN" will be changed as "and there is at least RAB assigned in the new SGSN"
- Category F
  - o Critical correction have to be mention in reason for change.

**Decision:** **Revised to N4-021016**

**Document:** **N4-021016**  
**Title:** Forward Relocation Response without 'RAB Setup Information' IE  
**CR:** 29.060-340r1 R99  
**Source:** Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-021017**  
**Title:** Forward Relocation Response without 'RAB Setup Information' IE  
**CR:** 29.060-341r1 Rel-4  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** N4-021018  
**Title:** Forward Relocation Response without 'RAB Setup Information' IE  
**CR:** 29.060-342r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020871  
**Title:** LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN SA2  
**Source:** SA2  
**Presented:** Mr. Giorgio Gulbani, Nokia  
**Discussion:**

- Nokia has drafted a reply LS to SA2.

**Decision:** Noted

**Document:** N4-020881  
**Title:** LS in reply to the LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN (S2-022052)  
**Source:** Nokia  
**Presented:** Mr. Giorgio Gulbani, Nokia  
**Discussion:**

- Nokia has drafted the reply LS to SA2

**Decision:** Revised to N4-021019

**Document:** N4-021019  
**Title:** LS in reply to the LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN (S2-022052)  
**Source:** Nokia  
**Presented:** Mr. Giorgio Gulbani, Nokia  
**Discussion:**

**Decision:** Approved

**Document:** N4-020878  
**Title:** Setting PDP ID after inter-SGSN RAU using GTPv0  
**CR:** 29.060-330 R99  
**Source:** Ericsson  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

- Companies agreed this is an critical correction.

**Decision:** Revised to N4-021061

**Document:** N4-021061  
**Title:** Setting PDP ID after inter-SGSN RAU using GTPv0  
**CR:** 29.060-330r1 R99  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** Approved

**Document:** N4-021062  
**Title:** Setting PDP ID after inter-SGSN RAU using GTPv0  
**CR:** 29.060-331r1 Rel-4  
**Source:** Ericsson  
**Presented:**  
**Discussion:**



**Decision:** **Approved**

**Document:** **N4-021063**  
**Title:** Setting PDP ID after inter-SGSN RAU using GTPv0  
**CR:** 29.060-332r1 Rel-5  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020971**  
**Title:** Clarification on the definition of DNS  
**CR:** 23.003-046r1 R99  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**  
- Nokia support the CR.

**Decision:** **Revised to N4-021064**

**Document:** **N4-021064**  
**Title:** Clarification on the definition of DNS  
**CR:** 23.003-046r2 R99  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021065**  
**Title:** Clarification on the definition of DNS  
**CR:** 23.003-047r2 Rel-4  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021066**  
**Title:** Clarification on the definition of DNS  
**CR:** 23.003-048r2 Rel-5  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Revised to N4-021080**

**Document:** **N4-021080**  
**Title:** Clarification on the definition of DNS  
**CR:** 23.003-048r3 Rel-5  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020827**  
**Title:** Clarification on the coding of RANAP cause value  
**CR:** 29.060-326 R99  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Alcatel & Nokia: We should send the LS to RAN3 and ask them to reduce Cause value from "1-256" to "1-255".
- LS (N4-021070) to RAN3 (Giorgi Gulbani, Nokia).
- Consequences if not approved: "If GTP node receives a value of 255 the respective procedure may fail"
- In section 7.7.18 The value part have to be a range of 1...255.

**Decision:** **Revised to N4-021067**

**Document:** **N4-021067**  
**Title:** Clarification on the coding of RANAP cause value  
**CR:** 29.060-326r1 R99  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021068**  
**Title:** Clarification on the coding of RANAP cause value  
**CR:** 29.060-327r1 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021069**  
**Title:** Clarification on the coding of RANAP cause value  
**CR:** 29.060-328r1 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-021070**  
**Title:** LS on reduce Cause value  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020921**  
**Title:** Removing inconsistency in definition of PDP Address length  
**CR:** 29.060-334 R99  
**Source:** Alcatel  
**Presented:** Mr. Markus Berg, Alcatel  
**Discussion:**

- In the coversheet have to be a mention: Essential correction.

**Decision:** **Approved**

**Document:** **N4-020922**  
**Title:** Removing inconsistency in definition of PDP Address length  
**CR:** 29.060-335 Rel-4  
**Source:** Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** N4-020923  
**Title:** Removing inconsistency in definition of PDP Address length  
**CR:** 29.060-336 Rel-5  
**Source:** Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** N4-020924  
**Title:** 16 bit PDCP sequence numbers in RAB Context  
**CR:** 29.060-337 R99  
**Source:** Alcatel  
**Presented:** Mr. Markus Berg, Alcatel  
**Discussion:**

- In the coversheet have to be a mention: Essential correction.

**Decision:** **Approved**

**Document:** N4-020925  
**Title:** 16 bit PDCP sequence numbers in RAB Context  
**CR:** 29.060-338 Rel-4  
**Source:** Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** N4-020926  
**Title:** 16 bit PDCP sequence numbers in RAB Context  
**CR:** 29.060-339 Rel-5  
**Source:** Alcatel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** N4-020932  
**Title:** Including the Charging Characteristics in the PDP Context IE  
**CR:** 29.060-343 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Peter Schmitt, Siemens  
**Discussion:**

- Lucent: The CR is needed also for R99 or only for Rel-5.
  - o Nokia agreed with Lucent's comment.
- Nokia: CC should add as separate operator's parameter in the messages.
  - o Siemens: There is no need for this because charging related data can be stored and evaluation with CC can be done later with a short delay.
- Vodafone: We should inform SA5 by LS about the problem.
- A liaison statement to SA5 will be drafted by Nick Russell, Vodafone.
  - o N4-021079

**Decision:** **Postponed to CN4#16 as well as N4-020933**

**Document:** N4-021079  
**Title:** LS on missing Charging Characteristics for a short period of time after an inter-SGSN RAU  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** **Revised to N4-021100**

**Document:** N4-021100

**Title:** LS on missing Charging Characteristics for a short period of time after an inter-SGSN RAU  
**Source:** Vodafone  
**Presented:** Mr. Nick Russell, Vodafone  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020863**  
**Title:** IP Address for response messages in GTP  
**CR:** Discussion paper  
**Source:** Nortel  
**Presented:** Dr. Daniel Warren, Nortel Networks  
**Discussion:**

- **Proposal:** Clarification as to which text takes precedence is required. There are three possible resolution scenarios:
  - o The text in the definition of the Request messages is correct and 10.1.2.2 is incorrect. The easiest solution would be to alter 10.1.2.2 to say that the Response messages should be sent to the address included within the request message body if that address is different from the address in the IP header.
  - o The text in 10.1.2.2 is correct. Then, changes should be made to the six Request messages' text to clarify that the response should be sent to the Source Address in the IP header of the request message, and all Control Plane messages sent after the Response to the Request should use the address supplied in the Request message body.
  - o It might be that 10.1.2.2 applies to only some of the six messages and so there are some situations where the address included in the GTP message body should be used, and some situations where the address in the IP header of the request should be used. Changes should be incorporated to reflect this.
- Fujitsu: Our contribution N4-010041 was a similar as solution number 2 in Nortel's discussion paper.
- The majority of companies support solution number 2.
- Nortel will draft a CR for CN4#16 in September.

**Decision:** **Noted**

**Document:** **N4-020968**  
**Title:** No equivalent Cause Code in GTP to PDP context without TFT already activated  
**CR:** 29.060-343 R99  
**Source:** Nortel  
**Presented:** Dr. Daniel Warren, Nortel Networks  
**Discussion:**

- Consequences if not approved have to be updated.
- Lucent: Are there any Mobile implementations which are using this cause code?

**Decision:** **Approved**

**Document:** **N4-020969**  
**Title:** No equivalent Cause Code in GTP to PDP context without TFT already activated  
**CR:** 29.060-344 Rel-4  
**Source:** Nortel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020970**  
**Title:** No equivalent Cause Code in GTP to PDP context without TFT already activated  
**CR:** 29.060-345 Rel-5  
**Source:** Nortel  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** N4-020988  
**Title:** PDCP sequence numbers in SGSN Context Response  
**CR:** Discussion paper  
**Source:** Alcatel  
**Presented:** Mr. Markus Berg, Alcatel  
**Discussion:**

- The following table gives an overview of the discussed issues:

	Backward compatible	No update of PDP Context IE	All information within one IE
1) RAB Context in SGSN Context Response	X	X	
2) Enlarge N-PDU number fields to 2 octets			X
3) Extend PDP Context with Send and Receive PDCP N-PDU number	X		X

- The proposal of Alcatel is to agree on either solution 1 or 3.
- Nokia: Why don't you insert these to Sequence Number Down and Sequence Number Up field? A change is already covered and there are no need for these changes.

**Decision:** Noted

## 8.4 CAMEL phase 3

**Document:** N4-021013  
**Title:** Optional CallBarringFeatureList parameter in ATMod  
**CR:** 29.002-467r1  
**Source:** Nortel Networks  
**Presented:** Dr. Daniel Warren, Nortel  
**Discussion:**

- Nokia: The change is not backwards compatible, therefore needs an AC version upgrade.
  - o Ericsson: The AC we use is being modified for all releases which use it.
- Siemens challenges the classification as an essential correction. If the sending entity sends the redundant information, the receiving entity can discard it at the functional level.
- CN4 recommend that the constraint to require only changed data to be sent should be removed from the stage 2

**Decision:** Rejected

**Document:** N4-021013  
**Title:** Optional CallBarringFeatureList parameter in ATMod  
**CR:** 29.002-467r1  
**Source:** Nortel Networks  
**Presented:** Dr. Daniel Warren, Nortel  
**Discussion:**

- Nokia: The change is not backwards compatible, therefore needs an AC version upgrade.
  - o Ericsson: The AC we use is being modified for all releases which use it.
- Siemens challenges the classification as an essential correction. If the sending entity sends the redundant information, the receiving entity can discard it at the functional level.
- CN4 recommend that the constraint to require only changed data to be sent should be removed from the stage 2

**Decision:** Rejected as well as N4-021014 and N4-021015

## 8.5 Handover

**Document:** N4-020944  
**Title:** Correction to codec handling in Inter-MSC Handover  
**CR:** 23.009-??? R99  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

- Rel-5 has a different solution → only Rel-4 mirror CR.

**Decision:** **Endorsed by CN4**

**Document:** N4-021099  
**Title:** Correction to codec handling in Inter-MSC Handover  
**CR:** 23.009-073r5 R99  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

- Lucent ask for email endorsement process.
  - o Will go for email approval by CN4. To be posted on CN4 list by 16:00 CEST on 5 August. If no objections are received on the CN4 list by 16:00 CEST on 16 August it becomes an agreed CN4 output to CN #17
- Category F

**Decision:** **Approved 16<sup>th</sup> of August**

**Document:** N4-020945  
**Title:** Correction to codec handling in Inter-MSC Handover  
**CR:** 23.009-??? Rel-4  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

**Decision:** **Endorsed by CN4**

**Document:** N4-021084  
**Title:** Available codecs list and selected codec indication  
**CR:** 29.002-473r1  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**

- Siemens: If meeting agree this is an urgent matter Siemens is ready to agree this one. Anyway more corrections are needed.
  - o Nokia: We should send this for approval.
  - o Ericsson & Siemens would like to get a reservation to make improvements for CR if/when it's approved in CN plenary. The good solution would be postponed the CR for CN4#16.
  - o Ericsson want to be removed from source of the support companies.
  - o Ericsson has made a reservation to object the CR in CN plenary.
  - o Will go for email approval by CN4. To be posted on CN4 list by 16:00 CEST on 5 August. If no objections are received on the CN4 list by 16:00 CEST on 16 August it becomes an agreed CN4 output to CN #17.

**Decision:** **Revised to N4-021108**

**Document:** N4-021108  
**Title:** Available codecs list and selected codec indication  
**CR:** 29.002-473r2  
**Source:** Nokia  
**Presented:** Mr. Jari Jansson, Nokia  
**Discussion:**

-



**Decision:** Approved 16<sup>th</sup> of August

## 8.6 IP signalling transport

**Document:** N4-020845  
**Title:** To add reference to new IETF RFC on SCTP Checksum  
**CR:** 29.202-002 Rel-4  
**Source:** Lucent  
**Presented:** Mr. Nigel Berry, Lucent  
**Discussion:**

- Lucent: This an essential correction.
- Consequences if not approved have to be strengthen.

**Decision:** Revised to N4-021054

**Document:** N4-021054  
**Title:** To add reference to new IETF RFC on SCTP Checksum  
**CR:** 29.202-002r1 Rel-4  
**Source:** Lucent  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-021055  
**Title:** To add reference to new IETF RFC on SCTP Checksum  
**CR:** 29.202-003r1 Rel-5  
**Source:** Lucent  
**Presented:**  
**Discussion:**

**Decision:** Approved without presentation

**Document:** N4-020888  
**Title:** M3UA for 3GPP networks  
**CR:** 29.202-004 Rel-4  
**Source:** Ericsson  
**Presented:** Mr. Alf Heidermark, Ericsson  
**Discussion:**

- Nokia: Annex can be informative, but not normative until M3UA RFC is reaches final approval status.
  - o Ericsson: We can agree this if Annex X will be normative when M3UA has approved.
- CN4 decided that Annex X is informative until M3UA RFC is approved. After approval Annex X will get normative status.
- Ericsson: Alf Heidermark will arrange a drafting session to progress the text in annex.
- NTT DoCoMo: Interfaces should be distinct from existing GSM/UMTS interface names.

**Decision:** Noted

## 8.7 TrFO/Codec control

**Document:** N4-020831  
**Title:** 3GPP specific problems of codec modifications  
**Source:** Siemens  
**Presented:** Mr. Thomas Belling, Siemens  
**Discussion:**

- Ericsson want to treat the switch between transparent mode and support mode separately from the other issues. It's not really a correction, but an enhancement.

- o Nokia agrees with Ericsson and don't want to bring Rel-5 functionality to Rel-4.
- Ericsson: UDI swap isn't scope for 23.153. The correct place is 23.172 (Rel-5 only).
  - o Nokia support Ericsson's view.
  - o Siemens: The separating out the material in 23.172 would make for worse readability.
  - o Ericsson: The requirements for UDI swap are less time critical than for speech codec change.
  - o Siemens: The procedures are same for the server.
- Ericsson can't accept the way a document describes control of IP bearers.

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020830**

**Title:** Lack of IP "Modify Bearer" procedure

**CR:**

**Source:** Siemens

**Presented:** Mr. Thomas Belling, Siemens

**Discussion:**

- Lucent support for the position that a procedure is required for bearer modification for IP transport.

**Decision:** **Postponed to CN4#16**

**Document:** **N4-020964**

**Title:** Proposed LS to CN3 and RAN3 on IP "Modify Bearer" procedure

**CR:**

**Source:** Siemens

**Presented:** Mr. Thomas Belling, Siemens

**Discussion:**

- Siemens proposed that Attachment N4-020832 will be removed

**Decision:** **Revised to N4-021090**

**Document:** **N4-021090**

**Title:** Proposed LS to CN3 and RAN3 on IP "Modify Bearer" procedure

**CR:**

**Source:** Siemens

**Presented:** Mr. Thomas Belling, Siemens

**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020942**

**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC

**CR:** 23.153-042

**Source:** Ericsson

**Presented:** Mr. Phil Hodges, Ericsson

**Discussion:**

**Decision:** **Revised to N4-021003**

**Document:** **N4-021003**

**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC

**CR:** 23.153-042r1

**Source:** Ericsson

**Presented:**

**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020943**

**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC

**CR:** 23.153-043



**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

**Decision:** **Revised to N4-021003**

**Document:** **N4-021004**  
**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC  
**CR:** 23.153-043r1  
**Source:** Ericsson  
**Presented:**  
**Discussion:**

**Decision:** **Approved without presentation**

**Document:** **N4-020940**  
**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC  
**CR:** 23.153-040  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020941**  
**Title:** Handling of UMTS\_AMR & UMTS\_AMR\_2 codecs in OoBTC  
**CR:** 23.153-041  
**Source:** Ericsson  
**Presented:** Mr. Phil Hodges, Ericsson  
**Discussion:**

**Decision:** **Approved**

## 8.8 Any other business

### 8.8.1 Supplementary services

**Document:** **N4-020834**  
**Title:** Correction to figure 3  
**CR:** 23.091-004 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Ulrich Wiehe, Siemens  
**Discussion:**

- Vodafone believes it's essential correction
  - o Consequences if not approved should be strengthened.
- Title will also be improved:" Correction to ECT treatment indicator in SII2 parameter.
- SDL source file should be include in ZIP-file.
- R99 CR is not needed

**Decision:** **Approved**

**Document:** **N4-020835**  
**Title:** Correction to figure 3  
**CR:** 23.091-005 Rel-5  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020836**  
**Title:** Introduction of Call Deflection

**CR:** 23.016-027 R99  
**Source:** Siemens  
**Presented:** Mr. Ulrich Wiehe, Siemens  
**Discussion:**

- Vodafone: Also R98 CR is needed. Call Deflection was introduced in R98.
- Consequences if not approved should be strengthened.
- A new CR coversheet is needed.
- Category is A

**Decision:** **Approved**

**Document:** **N4-021089**  
**Title:** Introduction of Call Deflection  
**CR:** 03.16-A045 R98  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020837**  
**Title:** Introduction of Call Deflection  
**CR:** 23.016-028 Rel-4  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020838**  
**Title:** Introduction of Call Deflection  
**CR:** 23.016-029 Rel-5  
**Source:** Siemens  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020839**  
**Title:** Clarification on Call Deflection  
**CR:** 29.002-463 R99  
**Source:** Siemens  
**Presented:** Mr. Ulrich Wiehe, Siemens  
**Discussion:**

- Proposed to be as a correction – agreed by consensus.
- Vodafone can't approved R99 & Rel-4 CRs if they aren't critical correction

**Decision:** **Rejected**

**Document:** **N4-020840**  
**Title:** Clarification on Call Deflection  
**CR:** 29.002-464 Rel-4  
**Source:** Siemens  
**Presented:** Mr. Ulrich Wiehe, Siemens  
**Discussion:**

**Decision:** **Rejected**

**Document:** **N4-020841**  
**Title:** Clarification on Call Deflection  
**CR:** 29.002-465 Rel-5  
**Source:** Siemens  
**Presented:** Mr. Ulrich Wiehe, Siemens

**Discussion:**  
- Category F.

**Decision:** **Approved**

**Document:** **N4-020918**  
**Title:** Correction of 'Cause of no CLI' handling in SDLs  
**CR:** 23.081-004 R99  
**Source:** Ericsson, Vodafone  
**Presented:** Mr. Pompeo Santoro, Ericsson  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020919**  
**Title:** Correction of 'Cause of no CLI' handling in SDLs  
**CR:** 23.081-005 Rel-4  
**Source:** Ericsson, Vodafone  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

**Document:** **N4-020920**  
**Title:** Correction of 'Cause of no CLI' handling in SDLs  
**CR:** 23.081-006 Rel-5  
**Source:** Ericsson, Vodafone  
**Presented:**  
**Discussion:**

**Decision:** **Approved**

### 8.8.2 MAP – access signalling interworking

**Document:** **N4-020848**  
**Title:** Addition of an error mapping table for MAP Update Location operation  
**CR:** 29.010-057  
**Source:** Orange France, Ericsson  
**Presented:** Mr. Francois Dronne, Orange France  
**Discussion:**

- Vodafone: We can't accept this for R99 as agreed by consensus. We can accept this for Rel-4 as essential correction.
  - o Orange France: We believe this is essential correction for R99
  - o Meeting agreed it is an essential correction
- Consequences if not approved have to be described better.
- Table heading should also show 25.413 for left column
- Fujitsu: The message names for location area update may be different for GERAN access and UTRAN access.
  - o Source of the CR will check and update if needed.

**Decision:** **Revised to N4-021051**

**Document:** **N4-021051**  
**Title:** Addition of an error mapping table for MAP Update Location operation  
**CR:** 29.010-057r1 R99  
**Source:** Orange France, Ericsson  
**Presented:** Mr. Francois Dronne, Orange France  
**Discussion:**

- For email approval; to be posted on the CN4 email list by 17:00 CEST Monday 5 August 2002. If no objections received on the CN4 email list by 17:00 CEST Friday 16 August 2002 then it will be sent to CN #17 as an agreed output from CN4.

**Decision:** **Approved 16<sup>th</sup> of August**

**Document:** **N4-021052**

**Title:** Addition of an error mapping table for MAP Update Location operation

**CR:** 29.010-068r1 Rel-4

**Source:** Orange France, Ericsson

**Presented:**

**Discussion:**

- For email approval; to be posted on the CN4 email list by 17:00 CEST Monday 5 August 2002. If no objections received on the CN4 email list by 17:00 CEST Friday 16 August 2002 then it will be sent to CN #17 as an agreed output from CN4.

**Decision:** **Approved 16<sup>th</sup> of August**

**Document:** **N4-021053**

**Title:** Addition of an error mapping table for MAP Update Location operation

**CR:** 29.010-068r1 Rel-5

**Source:** Orange France, Ericsson

**Presented:**

**Discussion:**

- For email approval; to be posted on the CN4 email list by 17:00 CEST Monday 5 August 2002. If no objections received on the CN4 email list by 17:00 CEST Friday 16 August 2002 then it will be sent to CN #17 as an agreed output from CN4.

**Decision:** **Approved 16<sup>th</sup> of August**

---

## 9 GSM maintenance

### 9.1 GPRS

**Document:** **N4-020982**

**Title:** Handling of IP source address in signalling response message

**CR:** 09.60-A113r1

**Source:** Ericsson

**Presented:** Ms. Anna Jernryd, Ericsson

**Discussion:**

- This too late change for approval. Nokia can't approve the changes.
- CN4 agreed this is not an critical or an essential correction.
- Ericsson withdrawn the CR after discussion.

**Decision:** **Withdrawn**

**Document:** **N4-020983**

**Title:** Handling of IP source address in signalling response message

**CR:** 09.60-A114r1

**Source:** Ericsson

**Presented:**

**Discussion:**

**Decision:** **Withdrawn**

---

## 10 AOB

### 10.1 Working methods

1. MCC solicits volunteers to take on the rapporteurships of some specifications. Offers offline as first choice, then pick current CN4 activists from corresponding companies, then work on a shorter list of vacancies!

2. CN4 agreed that there should be a systematic updating of references in text and diagrams to replace references to GSM-style specs with the proper 3GPP spec for Rel-4 and on. MCC & editors will do the changes during implementation.

---

## 11 Update of the Work Plan

- Notes has updated the for lines 54, 57, 82, 250.

---

## 12 Future meetings

Date	Meeting	Venue	Host
4 – 6 September 2002	TSG-CN #17	Biarritz, FRANCE	Alcatel
23 – 27 September 2002	CN4 #16	Miami, USA	North American Friends of 3GPP
11 – 15 November 2002	CN4 #17	Bangkok, Thailand	Japanese Friends of 3GPP
4 – 6 December 2002	TSG-CN #18	New Orleans, Louisiana, USA	North American Friends of 3GPP
10 – 14 February 2003	CN4 #18		
12 – 14 March 2003	CN #19	Jersey Island, UK	UK Friends of 3GPP
7 – 11 April 2003	CN4 #19		
19 – 23 May 2003	CN4 #20		
4 – 6 June 2003	CN #20	FINLAND	Nokia
18 – 22 August 2003	CN4 #21		
17 – 19 September 2003	CN #21	GERMANY	To be confirmed
27 – 31 October 2003	CN4 #22		
10 – 12 December 2003	CN #22	To be confirmed	North American & Japanese Friends of 3GPP

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

## 13 Output of CN4#14

### 13.1 Change Requests

Tdoc #	Title	Source
N4-020808	CR 23.083-010 (Rel-5) on Determining the basic service for MT calls	Vodafone
N4-020809	CR 29.002-415r6 (Rel-5) on the support of the MAP Si interface	Lucent Technologies, mmO2
N4-020810	CR29.002-443r2 (Rel-5) on extensions to ATM for CAMEL control of IMS	Lucent Technologies, mmO2
N4-020811	CR 23.003-046r1 (Rel 5) on SCCP sub-system Number for IM-SSF	Lucent Technologies, mmO2
N4-020834	CR 23.091-004 (Rel-4) on Correction to check of ECT treatment indicator in SII2 parameter	Siemens
N4-020835	CR 23.091-005 (Rel-5) on Correction to check of ECT treatment indicator in SII2 parameter	Siemens
N4-020836	CR 23.016-027 (R99) on Introduction of Call Deflection	Siemens
N4-020837	CR 23.016-028 (Rel-4) on Introduction of Call Deflection	Siemens
N4-020838	CR 23.016-029 (Rel-5) on Introduction of Call Deflection	Siemens
N4-020841	CR 29.002-463 (Rel-5) on Clarification on Call Deflection	Siemens
N4-020885	CR 29.232-037 (Rel-5) on Misalignment between TS 23.226 and TS 29.232 for Global Text Telephony	LM Ericsson
N4-020886	CR 29.232-038 (Rel-5) on Alignment of text in TS 29.232 for Global Text Telephony.	LM Ericsson
N4-020887	CR 29.232-038 (Rel-5) on Alignment between prepare bearer and reserve bearer in TS 29.232 for Global Text Telephony	LM Ericsson
N4-020892	CR 23.003-053 (Rel-5) on Restructuring the IMEI to combine the TAC and FAC in Annex B	Vodafone
N4-020895	CR 24.080-024 (Rel-5) on Correction of references to FACILITY information element	Ericsson
N4-020896	CR 29.229-003 (Rel-5) on Wrong format of Charging Function Addresses	Ericsson
N4-020905	CR 29.328-005 (Rel-5) on Missing references to XML schema for Sh interface	Ericsson
N4-020906	CR 29.328-006 (Rel-5) on Extensibility of XML schema for Sh interface	Ericsson
N4-020917	CR 23.018-110 (Rel-5) on Minor corrections to Process ICH_MSC	Vodafone
N4-020918	CR 23.081-004 (R99) on Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson
N4-020919	CR 23.081-005 (Rel-4) on Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson
N4-020920	CR 23.081-006 (Rel-5) on Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson
N4-020921	CR 29.060-334 (R99) on Removing inconsistency in definition of PDP Address length	Alcatel
N4-020922	CR 29.060-335 (Rel-4) on Removing inconsistency in definition of PDP Address length	Alcatel
N4-020923	CR 29.060-336 (Rel-5) on Removing inconsistency in definition of PDP Address length	Alcatel
N4-020924	CR 29.060-337 (R99) on 16 bit PDCP sequence numbers in RAB Context	Alcatel
N4-020925	CR 29.060-338 (Rel-4) on 16 bit PDCP sequence numbers in RAB Context	Alcatel
N4-020926	CR 29.060-339 (Rel-5) on 16 bit PDCP sequence numbers in RAB Context	Alcatel
N4-020934	CR 29.010-060 (Rel-5) on Introduction of GERAN lu-mode	Siemens

N4-020940	CR 23.153-040 (Rel-4) on Initial Bitrate For TrFO	LM Ericsson
N4-020941	CR 23.153-041 (Rel-5) on Initial Bitrate For TrFO	LM Ericsson
N4-020954	CR 29.010-067 (Rel-5) on LCS: Further clarification of parameter mapping in Location Acquisition procedure	Nokia
N4-020965	CR 23.018-111 (Rel-5) on Setting of Leg1_Status Variable	Vodafone
N4-020968	CR 29.060-345 (R99) on No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks
N4-020969	CR 29.060-346 (Rel-4) on No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks
N4-020970	CR 29.060-347 (Rel-5) on No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks
N4-020985	CR 29.060-324r1 (Rel-5) on Incorrect references	Ericsson
N4-021000	CR 24.080-019r3 (Rel-5) on Compatible upgrade to ASN.1:1997 of 24.080	Siemens, France Telecom
N4-021001	CR 29.002-437r2 (Rel-5) on Compatible upgrade to ASN.1:1997 of 29.002	Siemens, France Telecom
N4-021003	CR 23.153-042r1 (Rel-4) Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson
N4-021004	CR 23.153-043r1 (Rel-5) on Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson
N4-021008	CR 29.060-322r1 (Rel-6) on Clarification re. Response messages	Ericsson
N4-021009	CR 29.060-323r1 (Rel-5) on Clarification re. Version Not Supported message	Ericsson
N4-021010	CR 29.060-349 (Rel-4) on Incorrect references	Ericsson
N4-021011	CR 29.060-325r2 (Rel-5) on RAB Setup Information for IPv6	Ericsson
N4-021012	CR 23.008-054r1 (Rel-5) on the Organisation of CAMEL IMS Data	Lucent Technologies, Alcatel
N4-021016	CR 29.060-340r1 (R99) on Forward Relocation Response without 'RAB Setup Information' IE	Alcatel
N4-021017	CR 29.060-341r1 (Rel-4) on Forward Relocation Response without 'RAB Setup Information' IE	Alcatel
N4-021018	CR 29.060-342r1 (Rel-5) on Forward Relocation Response without 'RAB Setup Information' IE	Alcatel
N4-021022	CR 29.228-001r2 (Rel-5) on Clarification of implicit registration	Nokia, Ericsson
N4-021023	CR 29.228-002r1 (Rel-5) on Clarification of user registration status query	Nokia, Ericsson
N4-021024	CR 29.228-003r1 (Rel-5) on Clarification of HSS initiated update of user profile	Nokia
N4-021025	CR 29.228-004r2 (Rel-5) on Clarification of MAR command	Nokia, Ericsson
N4-021026	CR 29.228-005r1 (Rel-5) on Conditionality of the SIP-Auth-Data-Item in MAA command	Nokia
N4-021027	CR 29.229-005 (Rel-5) on Mistake in the definition of the command MAA	Nokia, Ericsson
N4-021030	CR 23.008-055r1 (Rel-5) on Definition of the Subscribed media parameter	Orange France
N4-021033	CR 29.328-001r1 (Rel-5) on Correction of Section 7 Numbering and internal referencing	Lucent Technologies
N4-021034	CR 29.328-002r1 (Rel-5) on Correction of handling of subscriptions to notifications	Ericsson
N4-021035	CR 29.329-002r1 (Rel-5) on Cancellation of subscriptions to notifications	Ericsson
N4-021036	CR 29.328-003r1 (Rel-5) on Definition of location information for Sh interface	Ericsson, Vodafone
N4-021037	CR 29.328-004r2 (Rel-5) on Definition of user state for Sh interface	Ericsson, Vodafone
N4-021038	CR 29.329-003r1 (Rel-5) on Addition of AVPs to User-Data-Request	Ericsson, Vodafone
N4-021039	CR 23.018-109r1 (Rel-5) on Determining the basic service for MT calls	Vodafone
N4-021040	CR 29.002-470r1 (Rel-5) on Correction to the usage of "Roaming not allowed" error	Vodafone
N4-021041	CR 29.002-471r1 (Rel-5) on Clarifications on Send Identification	Ericsson, Siemens

N4-021042	CR 29.002-478 (Rel-4) on Clarifications on Send Identification	Ericsson, Siemens
N4-021043	CR 29.002-477 (R99) on Clarifications on Send Identification	Ericsson, Siemens
N4-021047	CR29.002-480 (Rel-5) on Removal of ChargingNotification feature	Alcatel
N4-021048	CR 23.008-057 on Wrong CAMEL capability handling for O-CSI, T-CSI, VT-CSI & D-CSI	Alcatel
N4-021054	CR 29.202-002r1 (Rel-4) to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies
N4-021055	CR 29.202-003r1 (Rel-5) to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies
N4-021057	CR 23.205-032r1 (Rel-4) on Correction on wrong message handling for subsequent Handover	Siemens
N4-021058	CR 23.205-033r1 (Rel-5) on Correction on wrong message handling for subsequent Handover	Siemens
N4-021059	CR 29.232-043r1 (Rel-4) on Missing Properties For CSD Calls	LM Ericsson
N4-021060	CR 29.232-044r1 (Rel-5) on Missing Properties For CSD Calls	LM Ericsson
N4-021061	CR 29.060-330r1 (R99) on Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia
N4-021062	CR 29.060-331r1 (Rel-4) on Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia
N4-021063	CR 29.060-332r1 (Rel-5) on Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia
N4-021064	CR 23.003-046r2 (R99) on Clarification on the definition of DNS	Siemens
N4-021065	CR 23.003-047r2 (Rel-4) on Clarification on the definition of DNS	Siemens
N4-021067	CR 219.060-326r1 (R99) on Clarification on the coding of RANAP cause value	Siemens
N4-021068	CR 219.060-327r1 (Rel-4) on Clarification on the coding of RANAP cause value	Siemens
N4-021069	CR 219.060-328r1 (Rel-5) on Clarification on the coding of RANAP cause value	Siemens
N4-021073	CR 23.205-029r1 (Rel-5) on Misalignment between TS 23.205 and TS 29232 for Global Text Telephony	LM Ericsson
N4-021074	CR 23.205-030r1 (Rel-5) on Misalignment between TS 23.226 and TS 23.205 for Global Text Telephony	LM Ericsson
N4-021080	CR 23.003-048r2 (Rel-5) on Clarification on the definition of DNS	Siemens
N4-021086	CR 23.205-026r4 (Rel-5) on Introduction of GERAN lu-mode	Siemens
N4-021087	CR 23.153-031r4 (Rel-5) on Introduction of GERAN lu-mode	Siemens
N4-021088	CR 29.002-462r1 (Rel-5) on Introduction of GERAN classmark	Siemens
N4-021089	CR 03.16-A045 on Introduction of Call Deflection	Siemens
N4-021096	CR 29.228-006r2 (Rel-5) on Definition of the Subscribed media parameter	Orange France
N4-021101	CR 23.003-050 (Rel-5) on Support for Shared Network in connected mode: definition of SNA	Ericsson
N4-021102	CR 29.002-466r1 (Rel-5) on Support for Shared Network in connected mode	Ericsson
N4-021103	CR 29.010-058r1 (Rel-5) on Support for Shared Network in connected mode	Ericsson
N4-021104	CR 29.010-075 (Rel-5) on Support for Shared Network in connected mode (using encapsulated BSSAP transport of SNA access information)	Nokia
N4-021110	CR 29.060-329r1 (Rel-5) on Addition of PCO IE to Update PDP context procedures	Nokia, Ericsson



## 13.2 Liaison Statements

The following Liaison Statements were agreed to be sent by CN4 #15 meeting:

TDOC N4-02xxxx	Subject	To	Cc	Attachment	Sent
0990	Reply LS on Subscriber and Equipment Trace Impacts	SA5	SA, CN1, GERAN, RAN2, RAN3		6 <sup>th</sup> August
0991	Response to LS on Network Integration Testing	CN4	TC SPAN, SPAN 13		6th August
0994	LS on on Diameter security issues	SA5	SA3		6th August
0999	LS on use of IP as transport for the Inter-GMLC Interface	CN, SA2, GSMA SerG LBS sub-group	GSMA IREG, SA3		6th August
1019	LS in reply to the LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN (S2-022052)	SA2		N4-021061, N4-021062, N4-021063	6th August
1031	IMS authentication vector distribution on the Cx interface	SA3			6th August
1032	LS on the support of vendor-specific commands in Diameter base protocol	SA5			6th August
1070	LS on Restricting the cause value to 1..255	RAN3			6th August
1071	Reply LS on Request for clarification related to raised questions regarding "Exchange of addresses on lu-CS using IP Transport Option in Release 5"	RAN3	CN3		6th August
1090	LS on Lack of IP "Modify Bearer" procedure	RAN3			6th August
1097	LS in reply to the Response to Liaison Statement on Support of IPv6 on lu	SA2	RAN3		6th August
1098	LS on Shared Networks	RAN3, SA2, GERAN, GERAN2	CN		6th August
1100	LS on missing Charging Characteristics for a short period of time after an inter-SGSN RAU	SA5		N4-020932	6th August
1107	LS on Subscribed Media Parameter	SA2, CN1	CN3	N4-021096 and N4-021030	6th August

## 13.3 TS/TRs

Tdoc #	Tdoc Title

## 13.4 WIs

Tdoc #	Tdoc Title
N4-020997	WID for Media Gateway Control Function (MGCF) - IM Media Gateway



---

## Annex A : Participants

### Member of 3GPP (ARIB)

Mr. Pompeo Santoro Nippon Ericsson K.K. 3GPPMEMBER (ETSI) SE +39 0815147721 pompeo.santoro@eri.ericsson.se

### Member of 3GPP (ETSI)

Mr. Mikko Aittola NOKIA Corporation 3GPPMEMBER (ETSI) FI +358504861209 mikko.aittola@nokia.com  
Dr. Thomas Belling SIEMENS AG 3GPPMEMBER (ETSI) DE +49 89 722 47315 Thomas.Belling@icn.siemens.de  
Dr. Paolo Belloni TELECOM ITALIA S.p.A. 3GPPMEMBER (ETSI) IT +39 3351326560 paolo.belloni@tilab.com  
Mr. Markus Berg ALCATEL S.A. 3GPPMEMBER (ETSI) FR +49 711 821 47464 ma.berg@alcatel.de  
Mr. Nigel. H Berry Lucent Technologies N. S. UK 3GPPMEMBER (ETSI) GB +44 1793 88 3245 nhberry@lucent.com  
Mr. Alessio Casati Lucent Technologies N. S. UK 3GPPMEMBER (ETSI) GB +44 1793 883861 acasati@lucent.com  
Mr. François Dronne ORANGE FRANCE 3GPPMEMBER (ETSI) FR +33 1 45 29 62 74 francois.dronne@rd.francetelecom.com  
Mr. Giorgi Gulbani NOKIA Corporation 3GPPMEMBER (ETSI) FI +358 7180 29759 giorgi.gulbani@nokia.com  
Mr. Alf Heidermark ERICSSON L.M. 3GPPMEMBER (ETSI) SE  
Mr. Phil Hodges ERICSSON L.M. 3GPPMEMBER (ETSI) DE +61 404069546 philip.hodges@ericsson.com.au  
Ms. Jane D Humphrey MARCONI COMMUNICATIONS 3GPPMEMBER (ETSI) GB +44 24 76564232 jane.humphrey@marconi.com  
Mr. Jari Jansson NOKIA Corporation 3GPPMEMBER (ETSI) FI +358 40 5550719 jari.jansson@nokia.com  
Ms. Anna Jernryd ERICSSON L.M. 3GPPMEMBER (ETSI) SE +46 31 344 9197 anna.jernryd@erv.ericsson.se  
Mr. Seppo Kauntola NOKIA Corporation 3GPPMEMBER (ETSI) FI +358405569959 seppo.kauntola@nokia.com  
Ms. Sharon Lim COMPAQ Computer SpA 3GPPMEMBER (ETSI) US +1 9723096134 sharon.lim@compaq.com  
Mr. Lionel Morand France Telecom 3GPPMEMBER (ETSI) FR +33 1 4529 6257 lionel.morand@rd.francetelecom.com  
Mr. Klaus Mäkeläinen Sonera Corporation 3GPPMEMBER (ETSI) FI +358 405208007 klaus.makelainen@sonera.com  
Mr. Ian David Chalmers Park VODAFONE Group Plc 3GPPMEMBER (ETSI) GB +44 1635 673 527 ian.park@vf.vodafone.co.uk  
Mr. Nick Russell VODAFONE Limited 3GPPMEMBER (ETSI) GB +44 1635 682 699 nick.russell@vf.vodafone.co.uk  
Mr. Peter Schmitt SIEMENS AG 3GPPMEMBER (ETSI) DE +49 6621169152 peter.schmitt@icm.siemens.de  
Mr. Kalle Tammi NOKIA Corporation 3GPPMEMBER (ETSI) FI +358405058670 kalle.tammi@nokia.com  
Dr. Daniel Warren NORTEL NETWORKS (EUROPE) 3GPPMEMBER (ETSI) GB +44 1628 431098 dlwarren@nortelnetworks.com  
Mr. Ulrich Wiehe SIEMENS AG 3GPPMEMBER (ETSI) DE +49 6621 169 139 ulrich.wiehe@icn.siemens.de  
Mrs. Johanna Wild Motorola Ltd. 3GPPMEMBER (ETSI) DE +49 8992103177 johanna.wild@motorola.com

### Member of 3GPP (T1)

Mr. Andrew Allen dynamicsoft Inc. 3GPPMEMBER (T1) US +1 972 473 5507 aallen@dynamicsoft.com  
Mr. Arturo Arreaga Rogers Wireless Inc. 3GPPMEMBER (T1) CA +1 (416) 9357659 aarreaga@rci.rogers.com  
Mr. Jerome Privat AT&T Wireless Services, Inc. 3GPPMEMBER (T1) FR +33 4 97 23 40 45 jerome.privat@northstream.se

### Member of 3GPP (TTA)

Mr. Miguel-Angel Pallares ERICSSON Korea 3GPPMEMBER (ETSI) SE +34 913394222 miguel-angel.pallares-lopez@ece.ericsson.se

### Member of 3GPP (TTC)

Mr. Shinichiro Aikawa Fujitsu Limited 3GPPMEMBER (TTC) JP +81 44 754 4198 saikawa@jp.fujitsu.com  
Mr. Kazumasa Hori NTT DoCoMo Inc. 3GPPMEMBER (TTC) DE +49 89 5624 220 hori@docomolab-euro.com  
Mr. Daisuke Igarashi NTT DoCoMo Inc. 3GPPMEMBER (TTC) JP +81 468 40 3370 igarashi@nw.yrp.nttdocomo.co.jp

Mr. Atsushi Kobayashi	NTT COMWARE Corporation	3GPPMEMBER (TTC)	JP +81 468 57 4498	kobayashi.atsushi@nttcom.co.jp
Mr. Atsushi Minokuchi	NTT DoCoMo Inc.	3GPPMEMBER (TTC)	JP +49-89-56824-203	minokuchi@docomolab-euro.com
Mr. Toshiyuki Tamura	NEC Corporation	3GPPMEMBER (TTC)	JP +81 471 85 6706	tamura@aj.jp.nec.com
Mr. Nobuyuki Uda	NTT COMWARE Corporation	3GPPMEMBER (TTC)	JP +813 5463 6321	uda.nobuyuki@nttcom.co.jp

**Organisation partner representative (ETSI)**

Mr. Kimmo Kymalainen	Mobile Competence Centre		FR +33 4 92 94 42 38	kimmo.kymalainen@etsi.fr
----------------------	--------------------------	--	----------------------	--------------------------

## Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-020781	Preliminary agenda for CN4 #15	CN4 chairman	Revised to N4-020782
N4-020782	CN4 #15: detailed agenda & time plan at document deadline	CN4 chairman	Revised to N4-020980
N4-020783	CN4 #15: detailed agenda & time plan on eve of meeting	CN4 chairman	Approved
N4-020784	Proposed allocation of documents to agenda items at document deadline	CN4 chairman	Revised to N4-020785
N4-020785	Proposed allocation of documents to agenda items on eve of meeting	CN4 chairman	Approved
N4-020786	Summary report of CN #16 and SA #16 plenary meetings	CN4 chairman	Noted
N4-020787	List of agreed output documents	CN4 chairman	Approved
N4-020788	CN4#14 meeting report from Budapest	MCC	Approved
N4-020789	Work Plan	MCC	Noted
N4-020790	Updates of rapporteurs	MCC	Noted
N4-020791	Handling of IP source address	Ericsson	Revised to N4-020982
N4-020792	Handling of IP source address	Ericsson	Revised to N4-020983
N4-020793	Clarification re. Response messages	Ericsson	Revised to N4-021008
N4-020794	Clarificatin re. Version Not Supported	Ericsson	Revised to N4-020984
N4-020795	Incorrect reference	Ericsson	Revised to N4-020985
N4-020796	RAB Setup Information for IPv6	Ericsson	Revised to N4-020986
N4-020797	Response Liaison Statement on IMS Identities for R99/R4 UICC	CN1	Noted
N4-020798	Liaison Statement on 3GPP Network Domain Name usage for IMS	CN1	Noted
N4-020799	Response to LS (S1-020642) on Priority Service Feasibility Study	RAN2	Noted
N4-020800	Answer Liaison on Mandatory Use Of Transport Addresses sent by the MSC in a RAB Modification Request	RAN3	Noted
N4-020801	RAN3 final decision on exchange of addresses on Iu-CS using IP Transport Option in Release 5	RAN3	Noted
N4-020802	Reply LS on IMS identities for Rel 99/R4 UICC	SA3	Noted
N4-020803	Reply LS on Immediate Service Termination	SA3	Noted
N4-020804	LS-reply to SA2, CN4 on Distribution of IMS Charging ID (ICID) from GGSN to SGSN	SA5	Noted
N4-020805	LS on Subscriber and Equipment Trace Impacts	SA5	Noted
N4-020806	Description of MT SM delivery via two serving nodes	Vodafone	Revised to N4-020979
N4-020807	Determining the basic service for MT calls	Vodafone	Revised to N4-021039
N4-020808	Determining the basic service for MT calls	Vodafone	Approved
N4-020809	CR to 29.002 for the support of the MAP Si interface	Lucent Technologies and MMO2	Approved
N4-020810	CR29.002-443 (rel5) on extensions to ATM for CAMEL control of IMS	Lucent Technologies and MMO2	Approved
N4-020811	CR 23.003-046 (rel 5) on SCCP sub-system Number for IM-SSF	Lucent Technologies and MMO2	Approved

N4-020812	CR to 23.008 on the Organisation of CAMEL IMS Data for	Lucent Technologies and MMO2	Revised to N4-021012
N4-020813	Clarification of implicit registration	Nokia	Revised to N4-021020
N4-020814	Clarification of user registration status query	Nokia	Revised to N4-021023
N4-020815	Clarification of HSS initiated update of user profile	Nokia	Revised to N4-021024
N4-020816	Conditionality of the S-CSCF name in MAR command	Nokia	Revised to N4-021021
N4-020817	Conditionality of the SIP-Auth-Data-Item in MAA command	Nokia	Revised to N4-021026
N4-020818	LS (N4-020699) on Shared Networks from TSG CN WG4	RAN3	Noted
N4-020819	Reply LS on Subscriber and Equipment Trace Impacts	RAN3	Noted
N4-020820	Liaison Statement on the GMLC-GMLC interface utilising IP as transport	SerG	Noted
N4-020821	Introduction of GERAN lu-mode	Siemens	Revised to N4-021086
N4-020822	Introduction of GERAN lu-mode	Siemens	Revised to N4-021087
N4-020823	Introction of GERAN classmark	Siemens	Revised to N4-021088
N4-020824	Clarification on the definition of DNS	Siemens	Revised to N4-020971
N4-020825	Clarification on the definition of DNS	Siemens	Revised to N4-020972
N4-020826	Clarification on the definition of DNS	Siemens	Revised to N4-020973
N4-020827	Clarification on the coding of RANAP cause value	Siemens	Revised to N4-021067
N4-020828	Clarification on the coding of RANAP cause value	Siemens	Revised to N4-021068
N4-020829	Clarification on the coding of RANAP cause value	Siemens	Revised to N4-021069
N4-020830	Lack of IP "Modify Bearer" procedure	Siemens	Postponed to CN4#16
N4-020831	3GPP specific problems of codec modifications	Siemens	Postponed to CN4#16
N4-020832	Codec Modification Procedures	Siemens	Postponed to CN4#16
N4-020833	Codec Modification Procedures	Siemens	Postponed to CN4#16
N4-020834	Correction to figure 3	Siemens	Approved
N4-020835	Correction to figure 3	Siemens	Approved
N4-020836	Introduction of Call Deflection	Siemens	Approved
N4-020837	Introduction of Call Deflection	Siemens	Approved
N4-020838	Introduction of Call Deflection	Siemens	Approved
N4-020839	Clarification on Call Deflection	Siemens	Rejected
N4-020840	Clarification on Call Deflection	Siemens	Rejected
N4-020841	Clarification on Call Deflection	Siemens	Approved
N4-020842	Compatible upgrade to ASN.1:1997 of 24.080	Siemens, France Telecom	Revised to N4-021000
N4-020843	Compatible upgrade to ASN.1:1997 of 29.002	Siemens, France Telecom	Revised to N4-021001
N4-020844	CR to 29.328 for the Correction of Section 7 Numbering and internal referencing	Lucent Technologies	Revised to N4-021033
N4-020845	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies	Revised to N4-021054

N4-020846	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies	Revised to N4-021055
N4-020847	Termination point of RANAP Signalling and Bearer at the MSC Server (Mc)	Lucent Technologies	Noted
N4-020848	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Revised to N4-021051
N4-020849	Discussion of changes in revised WID for PRESNC	Lucent Technologies	Noted
N4-020850	Revised WID for PRESNC	Lucent Technologies	Revised to N4-021056
N4-020851	Definition of the Subscribed media parameter	Orange France	Revised to N4-021028
N4-020852	Definition of the Subscribed media parameter	Orange France	Revised to N4-021030
N4-020853	CR to 29.229 to add a reference to the new IETF RFC on SCTP checksum	Lucent Technologies	Approved
N4-020854	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies	Revised to N4-020996
N4-020855	Support for Shared Network in connected mode: definition of SNA	Ericsson	Revised to N4-021101
N4-020856	Support for Shared Network in connected mode	Ericsson	Revised to N4-021102
N4-020857	Support for Shared Network in connected mode	Ericsson	Revised to N4-021103
N4-020858	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Revised to N4-021013
N4-020859	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Revised to N4-021014
N4-020860	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Revised to N4-021015
N4-020861	Overload Control on the Cx and Dx interfaces	Nortel Networks	Rejected
N4-020862	Overload Control on the Sh interface	Nortel Networks	Withdrawn
N4-020863	IP Address for response messages in GTP	Nortel Networks	Noted
N4-020864	LS on Network Integration Testing	CN1	Noted
N4-020865	LS on Shared Networks – Outcome of RAN3 #30	RAN3	Noted
N4-020866	Reply to Liaison Statement on use of IP as transport for the Inter-GMLC Interface	SA2	Noted
N4-020867	Response to Liaison Statement on Support of IPv6 on Iu	SA2	Noted
N4-020868	Liaison statement on IMS Sessions and PDP Contexts (Response on "Distribution of IMS Charging ID (ICID) from GGSN to SGSN")	SA2	Noted
N4-020869	Clarification regarding Location Information in IMS	SA2	Noted
N4-020870	LS on dimensioning for IMS services	SA2	Noted
N4-020871	LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN	SA2	Noted
N4-020872	LS on Shared Networks	SA2	Noted
N4-020873	LS reply to "Distribution of IMS Charging ID (ICID) from PCF/P-CSCF to GGSN"	SA5	Noted
N4-020874	LS on Diameter security issues	SA5	Noted
N4-020875	LS reply on "3GPP-specific Diameter applications"	SA5	Noted
N4-020876	LS on inclusion of CCF/ECF addresses on Sh interface	SA5	Noted
N4-020877	Addition of PCO IE to Update PDP context procedures	Nokia, Ericsson	Revised to N4-021110
N4-020878	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Revised to N4-021061
N4-020879	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Revised to N4-021062

N4-020880	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Revised to N4-021063
N4-020881	LS in reply to the LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN (S2-022052)	Nokia	Revised to N4-021019
N4-020882	Cause Codes in SGSN Context Acknowledge	Nokia	Principle agreed
N4-020883	Misalignment between TS 23205 and TS 29232 for Global Text Telephony	LM Ericsson	Revised to N4-021073
N4-020884	Misalignment between TS 29.232 and TS 23.205 for Global Text Telephony.	LM Ericsson	Revised to N4-021074
N4-020885	Misalignment between TS 23.226 and TS 29.232 for Global Text Telephony.	LM Ericsson	Approved
N4-020886	Alignment of text in TS 29.232 for Global Text Telephony.	LM Ericsson	Approved
N4-020887	Alignment between prepare bearer and reserve bearer in TS 29.232 for Global Text Telephony	LM Ericsson	Approved
N4-020888	M3UA for 3GPP networks	LM Ericsson	Noted
N4-020889	M3UA for 3GPP networks	LM Ericsson	Noted
N4-020890	Restructuring the IMEI to combine the TAC and FAC in Annex B	Vodafone	Withdrawn
N4-020891	Restructuring the IMEI to combine the TAC and FAC in Annex B	Vodafone	Withdrawn
N4-020892	Restructuring the IMEI to combine the TAC and FAC in Annex B	Vodafone	Approved
N4-020893	Correction to the usage of Unknown Subscriber (Gprs Subscription Unknown) error	Vodafone	Revised to N4-021040
N4-020894	Clarifications on Send Identification	Ericsson	Revised to N4-021041
N4-020895	Correction of references to FACILITY information element	Ericsson	Approved
N4-020896	Wrong format of Charging Function Addresses	Ericsson	Approved
N4-020897	Syntax of Public-Identity AVP	Ericsson	Revised to N4-021081
N4-020898	Syntax of Public-Identity AVP	Ericsson	Revised to N4-021085
N4-020899	Support of vendor-specific commands in Diameter base protocol	Ericsson	Principle agreed
N4-020900	Cancellation of subscriptions to notifications	Ericsson	Revised to N4-021034
N4-020901	Cancellation of subscriptions to notifications	Ericsson	Revised to N4-021035
N4-020902	Definition of location information for Sh interface	Ericsson, Vodafone	Revised to N4-021036
N4-020903	Definition of user state for Sh interface	Ericsson	Revised to N4-020987
N4-020904	Addition of Requested-Domain indication to User-Data-Request	Ericsson, Vodafone	Revised to N4-021038
N4-020905	Missing references to XML schema for Sh interface	Ericsson	Approved
N4-020906	Extensibility of XML schema for Sh interface	Ericsson	Approved
N4-020907	Support of mandatory IPv6 on the lu interface	Nokia	Postponed to CN4#16
N4-020908	Termination ID Note	Nokia	Postponed to CN4#16
N4-020909	Termination ID Note	Nokia	Postponed to CN4#16
N4-020910	Enabling of IP bearer in lu-cs interface	Nokia	Noted
N4-020911	lu-cs over IP related corrections on 23.205	Nokia	Postponed to CN4#16
N4-020912	lu-cs over IP related corrections on 29.232	Nokia	Postponed to CN4#16



N4-020913	Reply LS on Status of protocol work on Ze interface (N4-020769)	SA3	Noted
N4-020914	IMS authentication vector distribution on the Cx interface	SA3	Noted
N4-020915	Encapsulation principle on the E interface	Ericsson	Withdrawn
N4-020916	Correction of SDL's for Line Identification services	Ericsson	Withdrawn
N4-020917	Minor corrections to Process ICH_MSC	Vodafone	Approved
N4-020918	Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson	Approved
N4-020919	Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson	Approved
N4-020920	Correction of 'Cause of no CLI' handling in SDLs	Vodafone, Ericsson	Approved
N4-020921	Removing inconsistency in definition of PDP Address length	Alcatel	Approved
N4-020922	Removing inconsistency in definition of PDP Address length	Alcatel	Approved
N4-020923	Removing inconsistency in definition of PDP Address length	Alcatel	Approved
N4-020924	16 bit PDCP sequence numbers in RAB Context	Alcatel	Approved
N4-020925	16 bit PDCP sequence numbers in RAB Context	Alcatel	Approved
N4-020926	16 bit PDCP sequence numbers in RAB Context	Alcatel	Approved
N4-020927	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Revised to N4-021016
N4-020928	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Revised to N4-021017
N4-020929	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Revised to N4-021018
N4-020930	Correction on wrong message types for HO	Siemens	Revised to N4-021057
N4-020931	Correction on wrong message types for HO	Siemens	Revised to N4-021058
N4-020932	Including the Charging Characteristics in the PDP Context IE	Siemens	Postponed
N4-020933	Including the Charging Characteristics in the PDP Context IE	Siemens	Postponed
N4-020934	Introduction of GERAN Iu-mode	Siemens	Approved
N4-020935	Handling of CSD calls and Inter-MSC Relocation	LM Ericsson	Noted
N4-020936	Missing Properties For CSD Calls	LM Ericsson	Revised to N4-021059
N4-020937	Missing Properties For CSD Calls	LM Ericsson	Revised to N4-021060
N4-020938	Correction/clarification to Codec Modification Procedures	LM Ericsson	Postponed to CN4#16
N4-020939	Correction/clarification to Codec Modification Procedures	LM Ericsson	Postponed to CN4#16
N4-020940	Initial Bitrate For TrFO	LM Ericsson	Approved
N4-020941	Initial Bitrate For TrFO	LM Ericsson	Approved
N4-020942	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson	Revised to N4-021003
N4-020943	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson	Revised to N4-021004
N4-020944	Correction to codec handling in Inter-MSC Handover	LM Ericsson	Endorsed by CN4
N4-020945	Correction to codec handling in Inter-MSC Handover	LM Ericsson	Endorsed by CN4
N4-020946	Codec Handling in inter MSC handover/relocation	Nokia	Noted
N4-020947	Available codecs list and selected codec indication	Nokia	Revised to N4-021084

N4-020948	LCS: Further clarification of triggering Location Acquisition procedure	Nokia	Revised to N4-021075
N4-020949	LCS: Further clarification of triggering Location Acquisition procedure	Nokia	Withdrawn
N4-020950	LCS: Further clarification of triggering Location Acquisition procedure	Nokia	Withdrawn
N4-020951	LCS: Handling requests related to E-OTD and OTDOA methods on E-interface	Nokia	Withdrawn
N4-020952	LCS: Handling requests related to E-OTD and OTDOA methods on E-interface	Nokia	Withdrawn
N4-020953	LCS: Further clarification of parameter mapping in Location Acquisition procedure	Nokia	Withdrawn
N4-020954	LCS: Further clarification of parameter mapping in Location Acquisition procedure	Nokia	Approved
N4-020955	LCS: Exception handling for positioning methods MS Assisted E-OTD and MS Assisted OTDOA	Nokia	Postponed to CN4#16
N4-020956	LCS: Exception handling for positioning methods MS Assisted E-OTD and MS Assisted OTDOA	Nokia	Postponed to CN4#16
N4-020957	Media Gateway Control Function (MGCF) - IM Media Gateway	Siemens	Revised to N4-020997
N4-020958	Handling of Active Codec Set in codec negotiation	Siemens	Postponed to CN4#16
N4-020959	Handling of Active Codec Set in codec negotiation	Siemens	Postponed to CN4#16
N4-020960	Addition of luFP package to Reserve Characteristics procedure	Siemens	Postponed to CN4#16
N4-020961	Addition of luFP package to Reserve Characteristics	Siemens	Postponed to CN4#16
N4-020962	Proposed New Codec Modification Sequence package	Siemens	Postponed to CN4#16
N4-020963	Proposed New Codec Modification Sequence package	Siemens	Postponed to CN4#16
N4-020964	Proposed LS to CN3 and RAN3 on IP "Modify Bearer" procedure	Siemens	Revised to N4-021090
N4-020965	Setting of Leg1_Status Variable	Vodafone	Approved
N4-020966	Discussion on M3UA	NTTDocomo	Principle approved
N4-020967	Access Rights Information for Network Sharing on the E-Interface	Nortel Networks	Withdrawn
N4-020968	No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks	Approved
N4-020969	No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks	Approved
N4-020970	No equivalent Cause Code in GTP to PDP context without TFT already activated	Nortel Networks	Approved
N4-020971	Clarification on the definition of DNS	Siemens	Revised to N4-021064
N4-020972	Clarification on the definition of DNS	Siemens	Revised to N4-021065
N4-020973	Clarification on the definition of DNS	Siemens	Revised to N4-021066
N4-020974	Available codecs list and selected codec indication	Nokia	Withdrawn
N4-020975	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Revised to N4-021052
N4-020976	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Revised to N4-021053
N4-020977	Further clarification of cause mapping in LCS procedures	Nokia	Withdrawn
N4-020978	Further clarification of cause mapping in LCS procedures	Nokia	Postponed to CN4#16
N4-020979	Description of MT SM delivery via two serving nodes	Vodafone	Postponed to CN4#16

N4-020980	CN4 #15: detailed agenda & time plan at document deadline	CN4 chairman	Revised to N4-020783
N4-020981	Correction of handling of MT-SMS in the SGSN	Vodafone	Revised to N4-021050
N4-020982	Handling of IP source address	Ericsson	Withdrawn
N4-020983	Handling of IP source address	Ericsson	Withdrawn
N4-020984	Clarificatin re. Version Not Supported	Ericsson	Revised to N4-021009
N4-020985	Incorrect reference	Ericsson	Approved
N4-020986	RAB Setup Information for IPv6	Ericsson	Revised to N4-021011
N4-020987	Definition of user state for Sh interface	Ericsson, Vodafone	Revised to N4-021037
N4-020988	PDCP sequence numbers in SGSN Context Response	Alcatel	Noted
N4-020989	Indicating the MT-SMS capability of the MSC/VLR & SGSN to the HLR	Vodafone	Noted
N4-020990	Reply LS on LS on Subscriber and Equipment Trace Impacts	Nokia	Approved
N4-020991	LS on Network Integration Testing	Siemens	Approved
N4-020992	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	Withdrawn
N4-020993	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	Revised to N4-021099
N4-020994	Reply LS on Diameter security issues	Lucent	Approved
N4-020995	Response to Liaison Statement on Support of IPv6 on lu	Nokia	Revised to N4-021097
N4-020996	WID for Release 6 commonality and interoperability between IMSs	Lucent Technologies	Noted
N4-020997	Media Gateway Control Function (MGCF) - IM Media Gateway	Siemens	Approved
N4-020998	Introduction of PCO in more session management messages	Ericsson, Nokia	Revised to N4-021105
N4-020999	Reply N4-020866 & N4-020820 Liaison Statement on the GMLC-GMLC interface utilising IP as transport	Ericsson, Vodafone	Approved
N4-021000	Compatible upgrade to ASN.1:1997 of 24.080	Siemens, France Telecom	Approved
N4-021001	Compatible upgrade to ASN.1:1997 of 29.002	Siemens, France Telecom	Approved
N4-021002	ODB and CB for SMS	NTT DoCoMo	Postponed to CN4#16
N4-021003	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson	Approved
N4-021004	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	LM Ericsson	Approved
N4-021005	Correction of SDL to Location Service process description	NTT Commware	Postponed to CN4#16
N4-021006	Reserved for possible composite of N4-020832 & N4-020938	Ericsson, Siemens	Withdrawn
N4-021007	Reserved for possible composite of N4-020832 & N4-020938	Ericsson, Siemens	Withdrawn
N4-021008	Clarification re. Response messages	Ericsson	Approved
N4-021009	Clarificatin re. Version Not Supported	Ericsson	Approved
N4-021010	Incorrect reference	Ericsson	Approved
N4-021011	RAB Setup Information for IPv6	Ericsson	Approved
N4-021012	CR to 23.008 on the Organisation of CAMEL IMS Data for	Lucent Technologies, Alcatel	Approved
N4-021013	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Rejected

N4-021014	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Rejected
N4-021015	Optional CallBarringFeatureList parameter in ATMod	Nortel Networks	Rejected
N4-021016	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Approved
N4-021017	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Approved
N4-021018	Forward Relocation Response without 'RAB Setup Information' IE	Alcatel	Approved
N4-021019	LS in reply to the LS on Setting of PDP Context Identifier after inter-SGSN RAU from GTPv0-only SGSN (S2-022052)	Nokia	Approved
N4-021020	Clarification of implicit registration	Nokia	Revised to N4-021022
N4-021021	Clarification of MAR command	Nokia	Revised to N4-021025
N4-021022	Clarification of implicit registration	Nokia	Approved
N4-021023	Clarification of user registration status query	Nokia, Ericsson	Approved
N4-021024	Clarification of HSS initiated update of user profile	Nokia	Approved
N4-021025	Clarification of MAR command	Nokia, Ericsson	Approved
N4-021026	Conditionality of the SIP-Auth-Data-Item in MAA command	Nokia	Approved
N4-021027	Editorial mistake in the definition of command MAA	Nokia	Approved
N4-021028	Definition of the Subscribed media parameter	Orange France	Revised to N4-021096
N4-021029	LS to SA2 & CN1 on Subscribed Media Types		Revised to N4-021106
N4-021030	Definition of the Subscribed media parameter	Orange France	Approved
N4-021031	LS to SA3 on IMS authentication vector distribution on the Cx interface	Ericsson	Approved
N4-021032	LS to SA5 on Support of vendor specific commands in Diameter		Approved
N4-021033	CR to 29.328 for the Correction of Section 7 Numbering and internal referencing	Lucent Technologies	Approved
N4-021034	Cancellation of subscriptions to notifications	Ericsson	Approved
N4-021035	Cancellation of subscriptions to notifications	Ericsson	Approved
N4-021036	Definition of location information for Sh interface	Ericsson, Vodafone	Approved
N4-021037	Definition of user state for Sh interface	Ericsson, Vodafone	Approved
N4-021038	Addition of Requested-Domain indication to User-Data-Request	Ericsson, Vodafone	Approved
N4-021039	Determining the basic service for MT calls	Vodafone	Approved
N4-021040	Correction to the usage of Unknown Subscriber (Gprs Subscription Unknown) error	Vodafone	Approved
N4-021041	Clarifications on Send Identification	Ericsson	Approved
N4-021042	Clarifications on Send Identification	Ericsson	Approved
N4-021043	Clarifications on Send Identification	Ericsson	Approved
N4-021044	Handling of partial implementations of CAMEL phase 4	Alcatel	Revised to N4-021091
N4-021045	Handling of partial implementations of CAMEL phase 4	Alcatel	Revised to N4-021092
N4-021046	Handling of partial implementations of CAMEL phase 4	Alcatel	Revised to N4-021095

N4-021047	Removal of ChargingNotification feature	Alcatel	Approved
N4-021048	Wrong Camel capability for D-CSI, T-CSI, VT-CSI and D-CSI	Alcatel	Approved
N4-021049	LS response on Sh interface signalling	CN1	Noted
N4-021050	Correction of handling of MT-SMS in the SGSN	Vodafone	Postponed to CN4#16
N4-021051	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Approved 16 <sup>th</sup> of August
N4-021052	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Approved 16 <sup>th</sup> of August
N4-021053	Addition of an error mapping table for MAP Update Location operation	Orange France / Ericsson	Approved 16 <sup>th</sup> of August
N4-021054	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies	Approved
N4-021055	CR to 29.202 to add reference to new IETF RFC on SCTP Checksum	Lucent Technologies	Approved
N4-021056	Revised WID for PRESNC	Lucent Technologies	Endorsed by CN4
N4-021057	Correction on wrong message types for HO	Siemens	Approved
N4-021058	Correction on wrong message types for HO	Siemens	Approved
N4-021059	Missing Properties For CSD Calls	LM Ericsson	Approved
N4-021060	Missing Properties For CSD Calls	LM Ericsson	Approved
N4-021061	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Approved
N4-021062	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Approved
N4-021063	Setting PDP ID after inter-SGSN RAU using GTPv0	Nokia	Approved
N4-021064	Clarification on the definition of DNS	Siemens	Approved
N4-021065	Clarification on the definition of DNS	Siemens	Approved
N4-021066	Clarification on the definition of DNS	Siemens	Revised to N4-021080
N4-021067	Clarification on the coding of RANAP cause value	Siemens	Approved
N4-021068	Clarification on the coding of RANAP cause value	Siemens	Approved
N4-021069	Clarification on the coding of RANAP cause value	Siemens	Approved
N4-021070	LS to RAN3 on reducing Cause value	Siemens	Approved
N4-021071	RAN3 final decision on exchange of addresses on Iu-CS using IP Transport Option in Release 5	Nokia, Siemens, Ericsson	Approved
N4-021072	Handling of partial implementations of CAMEL phase 4	Vodafone	Withdrawn
N4-021073	Misalignment between TS 23205 and TS 29232 for Global Text Telephony	LM Ericsson	Approved
N4-021074	Misalignment between TS 29.232 and TS 23.205 for Global Text Telephony.	LM Ericsson	Approved
N4-021075	LCS: Further clarification of triggering Location Acquisition procedure	Nokia	Withdrawn
N4-021076	LCS: Adding missing parameter mapping to assistance data request procedure after inter-MSC SRNS Relocation	Nokia	Postponed to CN4#16
N4-021077	LCS: Adding missing parameter mapping to assistance data request procedure after inter-MSC SRNS Relocation	Nokia	Postponed to CN4#16
N4-021078	LCS: Handling requests related to E-OTD method on E-interface	Nokia	Postponed to CN4#16
N4-021079	LS on missing Charging Characteristics for a short period of time after an inter-SGSN RAU	Vodafone	Revised to N4-021100

N4-021080	Clarification on the definition of DNS	Siemens	Approved
N4-021081	Syntax of Public-Identity AVP	Ericsson	Withdrawn
N4-021082	Support for Shared Network Area	Ericsson	Endorsed by CN4
N4-021083	LS on share networks		Revised to N4-021098
N4-021084	Available codecs list and selected codec indication	Nokia	Revised to N4-021108
N4-021085	Syntax of Public-Identity AVP	Ericsson	Withdrawn
N4-021086	Introduction of GERAN lu-mode	Siemens	Approved
N4-021087	Introduction of GERAN lu-mode	Siemens	Approved
N4-021088	Introction of GERAN classmark	Siemens	Approved
N4-021089	Introduction of Call Deflection	Siemens	Approved
N4-021090	Proposed LS to CN3 and RAN3 on IP "Modify Bearer" procedure	Siemens	Approved
N4-021091	Handling of partial implementations of CAMEL phase 4	Alcatel	Revised to N4-021093
N4-021092	Handling of partial implementations of CAMEL phase 4	Alcatel	Revised to N4-021094
N4-021093	Handling of partial implementations of CAMEL phase 4	Alcatel	Noted
N4-021094	Handling of partial implementations of CAMEL phase 4	Alcatel	Approved 16 <sup>th</sup> of August
N4-021095	Handling of partial implementations of CAMEL phase 4	Alcatel	Approved 16 <sup>th</sup> of August
N4-021096	Definition of the Subscribed media parameter	Orange France	Approved
N4-021097	Response to Liaison Statement on Support of IPv6 on lu	Nokia	Approved
N4-021098	LS on share networks		Approved
N4-021099	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia	Endorsed by CN5
N4-021100	LS on missing Charging Characteristics for a short period of time after an inter-SGSN RAU	Vodafone	Approved
N4-021101	Support for Shared Network in connected mode: definition of SNA	Ericsson	Approved
N4-021102	Support for Shared Network in connected mode	Ericsson	Approved
N4-021103	Support for Shared Network in connected mode	Ericsson	Approved
N4-021104	Support for Shared Network in connected mode	Ericsson	Approved
N4-021105	Introduction of PCO in more session management messages	Ericsson, Nokia	Revised to N4-021109
N4-021106	LS to SA2 & CN1 on Subscribed Media Types	Orange France	Revised to N4-021107
N4-021107	LS on Subscribed Media Parameter	Orange France	Approved
N4-021108	Available codecs list and selected codec indication	Nokia	Approved 16 <sup>th</sup> of August
N4-021109	Introduction of PCO in more session management messages	Ericsson, Nokia	Postponed to CN4#16 16 <sup>th</sup> of August
N4-021110	Addition of PCO IE to Update PDP context procedures	Nokia, 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](mailto: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 send a message to [LISTSERV@LIST.3GPP.ORG](mailto: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 way to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the **3GPP\_TSG\_CN\_WG4** list between 1<sup>st</sup> Jan 1999 and the current date, send the following command to [LISTSERV@LIST.3GPP.ORG](mailto: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](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/](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/](ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/tsgN4_04/Docs/)



## ANNEX E: Document history

<b>Document History</b>	
<b>26<sup>th</sup> August 2002</b>	<p>DRAFT v.1.0.0 dispatched to the TSG_CN4 mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p><b>Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support</b> MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.fr</p> <p>A deadline of a week was given to the CN4 delegates for e-mail comments on the draft report.</p> <p><b>E-mail comments back by 9<sup>th</sup> September 2002</b></p>
<b>9<sup>th</sup> August 2002</b>	Draft report v2.0.0 placed on the FTP serve
<b>23<sup>th</sup> September 2002</b>	Version 2.0.0 approved at CN4#16 Meeting in Miami, USA – Made version 3.0.0. Placed to server as the official meeting report.