



Third Generation Partnership Project

Meeting REPORT v3.0.0 3GPP TSG_CN_WG4 #06

Beijing, CHINA
15th – 19th January 2001



Hosted by Ericsson

Chairman: Yun-Chao Hu, Ericsson. (Rel-4 issues)
Vice-Chairman: Teemu Mäkinen, Nokia. (- R99 issues)
MCC Support: Kimmo Kymäläinen, ETSI MCC.

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Tdoc NP-010061

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1 Opening of the meeting Approval of Agenda

Mr. Yun-Chao Hu, CN4 chairman, gave a welcome introduction on behalf of Ericsson China. Additional support was provided Mr. Kimmo Kymäläinen (CN4 Secretary, MCC).

The agenda was presented and approved (N4-01001).

2 Document Allocation

Document allocation was approved (N4-01002).

2.1 Make calls for IPRs

Document is included in Annex C.

3 Meeting Reports

2.2 Paris meeting report

Comments:

- Text encoding: "Regarding the text encoding Nortel Networks offered to write all the text encoding for the UMTS packages"
- LS N4-001116 was not included in report.

The Paris meeting report (**N4-010005**) was approved. Corrections have to be made before final version 3.0.0.

2.3 Status report from CN#10

Document noted. (**N4-010003**)

2.4 CN#10 meeting report

- SS7 over IP was approved in Plenary
- ODB for PS only impacts CN1 and CN4

Document noted. (**N4010006**)

2.5 SA#10 meeting report

Document noted. (**N4010007**)

4 Liaison Statements

Document: N4-010100
Title: LS to N4 on Definition of Service Area in 23.003
Source: R3
Presented: Chairman
Discussion:
- Attached file will be discussed in R99 issues

Decision: Noted

Document: N4-010101
Title: Reply to LS on RAB Assignment and QoS Negotiation
Source: R3
Presented: Chairman
Discussion:

Decision: Noted without presentation

Document: N4-010109
Title: LS on RAB Assignment and QoS Negotiation
Source: S2
Presented: Mr. Ciriaco Angelo, Ericsson
Discussion:
-

Decision: Postponed to next meeting

Document: N4-010110
Title: Response to Liaison Statement on identifying responsibility for selection of the protocol over the Mp interface (Between SGSN server and PS-MGW)
Source: S2
Presented: Presented already in Paris meeting
Discussion:

Decision: Noted

Document: N4-010192
Title: Liaison statement to CN4 regarding Positive Authentication Reporting
Source: S3
Presented: Mr. Yun-Chao Hu, chairman
Discussion:

Decision: Noted

Document: N4-010193
Title: Request for information to complete security work items
Source: S3
Presented: Mr. Nick Russell, Vodafone
Discussion:
-

Decision: Postponed to next meeting

Document: N4-010191
Title: Reply LS to "Protection of GTP Messages using IPSec"
Source: S3
Presented: Mr. Yun-Chao Hu, chairman
Discussion:

- For vendors mandatory and for operators optional

Decision: Noted

5 Work Item Management

Document: N4-010011
Title: Work Item Description for Release 4: ODB (Operator Determined Barring) for Packet Oriented Services

Source: NEC

Presented: Mr Toshiyuki Tamura, NEC

Discussion:

- WI description has been presented already in CN#10
 - o Some modification made after CN#10 in section 5
- Lucent: It's good to be check if there will be some affects also to 23.060.
- In section 14. This like work task. Feature was descript in work plan.
- Classification was corrected to WT level
- New tdoc N4-010159
- Reporteur: Toshiyuki Tamura

Decision: Revised to Tdoc N4-010159

Document: N4-010159
Title: Work Item Description for Release 4: ODB (Operator Determined Barring) for Packet Oriented Services

Source: NEC

Presented: Mr. Toshiyuki Tamura, NEC

Discussion:

- Document N4-010159 approved without presentation

Decision: Agreed

6 R99

6.1 Camel Phase 3

Document: N4-010170
Title: Adding EXPORT definition for LSAIdentity

Source: N2

Presented: Mr. Teemu Makinen, Nokia

Discussion:

- Approved by consensus
- Mirror CR for Rel-4 is needed

Decision: Agreed

Document: N4-010171
Title: Removing duplicate parameters from SS-CSI

Source: N2

Presented: Mr. Teemu Makinen, Nokia

Discussion:

- Approved by consensus
- Mirror CR for Rel-4 is needed

Decision: Agreed

Document: N4-010172
Title: Correction to description of SS-CSI in HLR to VLR information flow

Source: N2
Presented: Mr. Teemu Makinen, Nokia
Discussion:

- Approved by consensus
- Mirror CR for Rel-4 is needed

Decision: Agreed

6.2 Handover

Document: **N4-010099**
Title: Proposed LS Size of RANAP messages over the MAP E-interface - REPLY
Source: R3
Presented: Mr. Nick Russell, Vodafone
Discussion: The agreed CR on the maximum payload already included this size of xxx bytes. Theref

Decision: Noted

Document: **N4-010108**
Title: LS on size of ranap messages over map-e
Source: S2
Presented: Yun-Chao Hu, Ericsson
Discussion:

Decision: Noted

Document: **N4-010104**
Title: Response to the LS from CN3 and CN4 on intersystem handover problem
Source: N1
Presented: Mr. Ahti Muhonen, Nokia
Discussion:

Decision: Noted

Document: **N4-010111**
Title: RE: LS, SRNS relocation based on global title
Source: S2
Presented: Mr. Yun-Chao Hu, Ericsson
Discussion:

- Ericsson: What is the status of inter-PLMN handover?
 - o Y-C Hu: Inter-PLMN handover use MAP-E interface.
 - o Companies are requested to address this agreement with the appropriate CRs.

Decision: Noted

Document: **N4-010129**
Title: Addition of selected UMTS algorithms indication to the handover procedures
Source: Nokia
Presented: Mr Teemu Mäkinen (vice-chairman), Nokia
Discussion:

- Category of CR is: agreed by consensus
- The Used UMTS Algorithm information is too wide defined. They need to be more focused.
- Concept of CR is accepted, but it needs some more checking.

Decision: Postponed to the next meeting

Document: **N4-010130**
Title: Addition of allowed GSM algorithms indication to the handover procedures
Source: Nokia
Presented: Mr Teemu Mäkinen (vice-chairman), Nokia

Discussion:

Decision: Postponed to the next meeting

6.3 Supplementary Services

Document: N4-010096
Title: Request for clarification on disconnecting Multiparty calls when a single call is active.
Source: G4
Presented: Mr. Edzo De Vries, Lucent
Discussion:

- LS to SA1 and G4
 - o N4-010160 by Nick Russell

Decision: Noted

Document: N4-010160
Title: LS for clarification of MPTY issue
Source: N4
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: Approved

Document: N4-010097
Title: Request for clarification on MPTY auxiliary state when only one remote party remains
Source: G4
Presented: Mr. Edzo De Vries, Lucent
Discussion:

- o Reply LS to S1 and G4 is included in LS N4-010160
- o Within the SDL diagram it is stated that after one calls remain in multi-party mode. This shall be stated back to G4 and S1. This will also be reflected in the LS to G4 and S1 (Tdoc 0160)

Decision: Noted

Document: N4-010032
Title: Correction to maximum numbers of RAB's
Source: Nokia
Presented: Mr. Ahti Muhonen, Nokia
Discussion:

- Category F: Agreed by consensus

Decision: Agreed; Also mirror CR (Tdoc N4-010033) will be approved

6.4 GPRS & GTP Enhancements

Document: N4-010131
Title: Indication of relocation requirement in Forward Relocation Request.
Source: Nortel Networks
Presented: Mr Kevin Gorey, Nortel Networks
Discussion:

- 23.060 Stage 2 have to be changed before CN4 can do anything with Stage 3.
 - o If no changes in Stage 2 -> Stage 3 changes aren't needed
- E-mail discussion before next meeting

Decision: Postponed to next meeting

Document: N4-010135
Title: Adding Up-link TEID Data I and user plane GGSN address to PDP Context IE

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Source: Nokia, Ericsson

Presented: Mr Ahti Muhonen, Nokia

Discussion:

- Postponed to E-mail discussion
- 29.060 sequence numbering have to be clarified. It's different than in stage 2 specification.

Decision: Postponed to next meeting

Document: **N4-010010**

Title: Indication of relocation requirement in Forward Relocation Request.

Source: NEC

Presented: Mr Toshiyuki Tamura, NEC

Discussion:

- Nokia: In which release the mechanism should be done?
- Nokia: Proposed to put back the negotiation mechanism removed in the last meeting.
- Ericsson: R3 might come to solution for the problem
- Nokia: What is the probability GTP version 2 never ever exist?

Decision: Rejected (There is a big possibility GTP-U version 2 will be never published)

Document: **N4-010016**

Title: Re-configure the IEs in the PDU Notification Request to make it in ascending order

Source: NEC

Presented: Mr Toshiyuki Tamura, NEC

Discussion:

- Category: F Agreed by consensus

Decision: Agreed

Document: **N4-010019**

Title: Corrections to editorwork of 29.060 v 3.6.0

Source: Ericsson

Presented: Mr Einar Oltedal, Ericsson

Discussion:

- Category: F Wrongly implemented CR

Decision: Agreed

Document: **N4-010041**

Title: Clarification on the TEID value in the GTP header of signalling messages

Source: Fujitsu

Presented: Mr . Shinichiro Aikawa, NEC

Discussion:

- Chairman: Does everyone agrees with solution 2-2?
 - o No disagreements
- Fujitsu:TE-ID should be described only in Stage 3 not in stage 2
- CR for email discussion
 - o CR postponed to next meeting
- Revised CR 29.060 170r1 will be published after E-mail discussion

Decision: Postponed to next meeting

Document: **N4-010128**

Title: Clarification on the TEID value in the GTP header of signalling messages

Source: Ericsson

Presented: Mr . Einar Oltedal, Ericsson

Discussion:

- Lucent wants Annex also to R99
- Motorola, NEC agrees (Rel-4)
 - o NEC objects it to R99

- Problems to get it in Rel-4 because other working groups are involved.

Decision: Noted

Document: **N4-010139**

Title: Handling of sequence numbers for reliable transmission of control plane messages

Source: Lucent

Presented: Mr . Alessio Casati, Lucent

Discussion:

- Category: F, critical correction

Decision: Agreed

Document: **N4-010140**

Title: Essential Correction of the delete PDP context procedure

Source: Lucent

Presented: Mr . Alessio Casati, Lucent

Discussion:

- Category: F, Essential correction

Decision: Revised Tdoc N4-010182

Document: **N4-010182**

Title: Essential Correction of the delete PDP context procedure

Source: Lucent

Presented: Agreed without presentation

Discussion:

Decision: Agreed

Document: **N4-010161**

Title: Clarifications to the GTP-U protocol

Source: Nokia, Ericsson, Motorola

Presented: Mr. Ahti Muhonen, Nokia

Discussion:

- Revision of N4-010145
- 9.1.1 & 9.3.1 reference to sequent number should be removed
- 11.3 textual modification will be made

Decision: Revised to Tdoc N4-010183

Document: **N4-010183**

Title: Clarifications to the GTP-U protocol

Source: Nokia, Ericsson, Motorola

Presented: Mr. Ahti Muhonen, Nokia

Discussion:

- Agreed by consensus

Decision: Agreed

Document: **N4-010181**

Title: Re-configure the IEs in the Send Routeing Information for GPRS Response message to make it in ascending order

Source: NEC

Presented: Mr Toshiyuki Tamura, NEC

Discussion:

- Category: F Agreed by consensus

Decision: Agreed

6.5 ASCI

No documents submitted.

6.6 AOB

6.6.1 Location Services

Document: N4-010038

Title: Alignment of Geographic Shape Description between 29.002 MAP specification and 23.032 GAD specifications.

Source: Ericsson

Presented: Mr. Ciriaco Angelo, Ericsson

Discussion:

- Category F: Agreed by consensus
- Problems will be discussed offline during the meeting and by E-mail.
- Postponed to next meeting
 - o Companies interested to E-mail discussion: Nokia, Ericsson, Lucent, Siemens, NTC
 - Have to R98 also be changed???

Decision: Postponed to next meeting CN4#07 Sophia Antipolis

Document: N4-010039

Title: Alignment of Geographic Shape Description between 29.002 MAP specification and 23.032 GAD specifications.

Source: Ericsson

Presented:

Discussion:

Decision: Postponed to next meeting CN4#07 Sophia Antipolis

6.6.2 Identities

Document: N4-010158

Title: Clarification to Definition of Service Area Identifier

Source: R3

Presented: Mr. Teemu Mäkinen, Nokia

Discussion:

- Category F: Agreed by consensus

Decision: Agreed

7 Rel-4

7.1 TrFO/TFO

Document: N4-010103

Title: Alignment of Geographic Shape Description between 29.002 MAP specification and 23.032 GAD specifications.

Source: CN1

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- No impact for CN4

Decision: Noted

Document: N4-010059
Title: Iu and Nb interfaces, UP package
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Chairman: User plane protocol might be same with Iu and Nb interfaces (Not decided yet).
- Revised combined version with N4-010157

Decision: Revised to Tdoc N4-010175

Document: N4-010157
Title: Correct wording of Nb / Iu UP protocol
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Chairman: Some wants that Iu UP is different than Nb UP?
 - o None
- Ericsson: Protocol stacks should be identical.
- Siemens, Tellabs and Ericsson will be submitted the combined document (N4-010059 & N4-010157).
 - o Result have to be out on Thursday

Decision: Revised to Tdoc N4-010175

Document: N4-0100175
Title: Correct wording of Nb / Iu UP protocol
Source: Ericsson, Siemens
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: Agreed

Document: N4-010060
Title: Alignment of codec modification procedures with current BICC CS2 procedures
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Text modification have to be made in 5.8.1 & 5.8.3.
 - o Editions made online.
- A new Tdoc N4-010165
- CR coversheet have to be updated

Decision: Revised to Tdoc N4-010165

Document: N4-010165
Title: Alignment of codec modification procedures with current BICC CS2 procedures
Source: Ericsson
Presented: Agreed without presentation
Discussion: Tdoc is revision of N4-010060

Decision: Agreed

Document: N4-010061
Title: General document improvements
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

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Tdoc NP-010061

- Editorial modification was made by online in:
 - o section 1 (Scope).
 - o Section 4.1.
- Cover sheet have to be modified

Decision: Revised Tdoc N4-010166

Document: **N4-010166**
Title: General document improvements
Source: Ericsson
Presented: Agreed without presentation
Discussion:

- Tdoc is revision of N4-010061

Decision: Agreed

Document: **N4-010062**
Title: Updates & corrections to TFO handling.
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Small editorial corrections
- Cover sheet will be replaced

Decision: Revised to Tdoc N4-010167

Document: **N4-010167**
Title: Updates & corrections to TFO handling.
Source: Ericsson
Presented: Agreed without presentation
Discussion:

- Tdoc is revision of N4-010062

Decision: Agreed

Document: **N4-010063**
Title: TrFO Break Recovery
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Editorial modification was made online in section:
 - 5.4.x & 5.4.4
- Cover sheet will be replaced

Decision: Revised to Tdoc N4-01-010168

Document: **N4-010168**
Title: TrFO Break Recovery
Source: Ericsson
Presented: Agreed without presentation
Discussion:

- Tdoc is revision of N4-010063

Decision: Agreed

Document: **N4-010120**
Title: CCBS
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Modifications in section 7.12

- Small ad hoc meeting during the meeting (Siemens, Ericsson, Lucent)

Decision: Revised to Tdoc N4-010169

Document: **N4-010169**
Title: CCBS
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Agreed

Document: **N4-010154**
Title: TS23.153, chapter 5.6, establishment of additional calls
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Text modification: Shall has to changed as should.
- Siemens, Ericsson and Tellabs will modify text during the meeting

Decision: Revised to Tdoc N4-010173

Document: **N4-010173**
Title: TS23.153, chapter 5.6, establishment of additional calls
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Revised Tdoc N4-010202

Document: **N4-010202**
Title: TS23.153, chapter 5.6, establishment of additional calls
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Agreed

Document: **N4-010155**
Title: TS23.153, all chapters, editorials and minor corrections
Source: Siemens
Presented: Mr Peter Schmitt, Siemens
Discussion:

- Small editorial corrections have to be made

Decision: Revised to Tdoc N4-010174

Document: **N4-010174**
Title: TS23.153, all chapters, editorials and minor corrections
Source: Siemens
Presented: Agreed without presentation
Discussion:

Decision: Agreed

Document: **N4-010156**
Title: TS23.153, all, rewording of "TBE"
Source: Siemens
Presented: Mr Peter Schmitt, Siemens
Discussion:

- Meeting endorsed the rephrasing of TBE but not the rephrasing of transparent and support mode.
- Same editorial modification with the terms have to be made.

Decision: Postponed to next meeting

Document: **N4-010147**
Title: Draft TS 28.062 Tandem Free Operations
Source: Siemens
Presented: Mr Peter Schmitt, Siemens
Discussion:

- Just information for CN4
- CN4 delegates have to go thru the document. Comments have to give in the next meeting.

Decision: Noted

7.2 Bearer Independent Architecture

7.2.1 Stage 2

Document: **N4-010115**
Title: Multicall
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- The last sentence needs to be deleted.

Decision: Revised to Tdoc N4-010184

Document: **N4-010184**
Title: Multicall
Source: Ericsson
Presented: Agreed without presentation
Discussion:

Decision: Agreed

Document: **N4-010152**
Title: Alternate Speech/Fax
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: Agreed

Document: **N4-010077**
Title: Completion of Calls to Busy Subscribers
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

- Figure 13.x Alerting have to be before Addresss Complete
 - o Problem has solved in Siemens contribution N4-010119.
- Small textual editing inChapter 13.3.1
- RAB assignment REQ have to be changed before Initial Address message (Figure 13.x)
- Following chapters have to be added
 - o Chapter 13.3.2.1 Early Traffic channel Assignment
 - o Chapter 13.3.3 CCBS information conveyed by Call Signalling
- CN4 group gave to mandate to agree this contribution in CN3/CN4 joint session.

Decision: Revised to Tdoc N4-010188

Document: N4-010188
Title: Completion of Calls to Busy Subscribers
Source: Ericsson
Presented: Ms. Elena Garcia-Mendive, Ericsson
Discussion:

Decision: Agreed

Document: N4-010119
Title: CCBS
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Revised to Tdoc N4-010186

Document: N4-010186
Title: CCBS
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Revised to Tdoc N4-010187

Document: N4-010187
Title: CCBS
Source: Siemens
Presented: Agreed without presentation

Discussion:

Decision: Agreed

Document: N4-010121
Title: TS 23.205, chapter 13.5, Additions and corrections
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Textual editing in chapter: Acceptance of waiting call.
- CN4 group gave to mandate to agree this contribution in CN3/CN4 joint session.

Decision: Revised to Tdoc N4-010189

Document: N4-010189
Title: TS 23.205, chapter 13.5, Additions and corrections
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Agreed

Document: N4-010122
Title: TS 23.205, chapter 13.7, Additions and corrections
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: Postponed to next meeting

Document: N4-010132

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Tdoc NP-010061

Title: Bearer Redirection
Source: Nortel Networks
Presented: Mr. Kevin Gorey, Nortel Networks
Discussion:

- Concept was agreed in Paris
- Modifications in figure xx

Decision: Revised to Tdoc N4-010190

Document: **N4-010190**
Title: Bearer Redirection
Source: Nortel Networks
Presented: Agreed without presentation
Discussion:

Decision: Agreed

Stage 2 and stage 3 documents should be available 26.1.2001

7.2.2 Stage 3

7.3 Core Network Security

Document: **N4-010106**
Title: Positive Authentication Reporting
Source: S3
Presented: Handled in Paris meeting
Discussion:

Decision: Noted

Document: **N4-010107**
Title: Protection of GTP Messages using IPSec
Source: S3
Presented: Handled in Paris meeting
Discussion:

Decision: Noted

Document: **N4-010151**
Title: LS to CN4 on SA3 agreements on MAPSec
Source: S3
Presented: Mr. Luis Lopes Soria, Ericsson
Discussion:

Decision: Noted

Document: **N4-010030**
Title: Security Header modification
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

- Security parameter index reference should be add to CR. Reference will be in TR 23.800. When TS 23.200 will be published reference have to be changed.
- Nokia: Why the payload can't be 0?
 - o No reason found.
 - o Desided to be as it was; starting from 1.
- If / When S3 will be agreed the LS N4-010176 -> Siemens have to resubmit the CR.
- Revised LS N4-010203

Decision: Postponed till CN4 will get the answer from S3 (LS N4-010203)

Document: **N4-010029**

Title: Proposed Response to SA3 on SA3 agreements on MAPSec

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- Ericsson, Lucent, Siemens will improve the wording of the LS in ad hoc.

Decision: Revised to Tdoc N4-010176

Document: **N4-010176**

Title: Proposed Response to SA3 on SA3 agreements on MAPSec

Source: N4

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- Revision of Tdoc N4-010029.

Decision: Revised to Tdoc N4-010203

Document: **N4-010203**

Title: Response LS to SA3 on SA3 agreements on MAPSec

Source: N4

Presented: Agreed without presentation

Discussion:

- Revision of Tdoc N4-010176.

Decision: Agreed

Document: **N4-010031**

Title: Calculation of maximum guaranteed length for MAP payload

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- CN4 accepted the calculation ranges from 64 byte to 3464 byte

Decision: Noted

Document: **N4-010148**

Title: GTP-C Message Protection by IPsec

Source: Motorola

Presented: Mr. Michael Young, Motorola

Discussion:

- CR presented already in Paris
 - o No changes after

Decision: Agreed

7.4 Core Network Optimisation

Document: **N4-010046**

Title: Draft feasibility study report for the Combined MAP Signalling (CoM) based on current reference model

Source: NTT Commware

Presented: Mr. Kazuo Mitamura, NTT

Discussion:

- The solution does not realize network optimisation. Even if it can reduce signalling under the integrated network, no optimisation is not realized because it can not reduce signalling under the reference model.

Decision: Rejected

7.5 Core Network Signalling

Document: N4-010149
Title: MAP over IP according to SIGTRAN
Source: Ericsson
Presented: Mr. Nick Ciriaco Angelo, Ericsson
Discussion:

CN4 Agreements:

- There will be a new specification for Signalling Transport within the Core Network!
 - o TS 29. Signalling Transport
 - Signalling Architectures
 - IP based, STM based
 - M3UA, SUA
 - MTP, SCCP
 - FT stated that they would like to come back on the issue if SCCP needs to be addressed in this new TS.
- SUA and SCCP will not be described in the new specification for Rel-4.
 - Motorola: CN4 should investigate possibility to include SUA in Rel-4.
 - Nokia will not support SUA to Rel-4 in any case.
 - Ericsson supports Nokia
 - Nortel is happy with M3UA in Rel-4, but would like to come back on SUA.
- A draft of the new TS is expected in the Rel-4 Ad Hoc meeting

Decision: CN4 will draft a new TS for SS7 Signalling Transport within the Core Network;
The specification shall include:

- Signalling Architectures
- IP, STM Based transport
- MTP and M3UA

CN4 agrees that M3UA shall be used for IP transport (i.e. IP/SCTP/M3UA)

CN4 agrees that SUA needs to be further investigated, but strong reluctance have been expressed to have SUA within Release 4

Impacts regarding the required SCCP functionality by CN capabilities/services (i.e. CCBS and MNP) and CN protocols needs further investigation.

CRs postponed

7.6 Operator Determined Barring

Document: N4-010150
Title: Reply to LS on Operator Determined Barring of Packet Oriented Services (N4-001080)
Source: S1
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: Noted

Document: N4-010012
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- Small editor changes made
- Title have to be changed

Decision: Agreed

**3GPP TSG CN Plenary
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001**

Tdoc NP-010061

Document: N4-010013
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- Modification in table was made

Decision: Revised to Tdoc N4-010195

Document: N4-010195
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: Agreed

Document: N4-010014
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- Reference list have to be checked
- HPLM changed into HPLMN
- Changes made in Table
- Title have to be changed

Decision: Revised to Tdoc N4-010196

Document: N4-010196
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: Agreed

Document: N4-010015
Title: Add new feature 'ODB for the Packet Oriented Services'
Source: NEC
Presented: Mr Toshiyuki Tamura, NEC
Discussion:

- Editing in chapter 13.1.3
- Nokia: Application context have to be updated to version 4 because new error indications has been added.
 - o Only one application context upgrade is needed;
Map_Send_Routing_Info_for_Gprs
 - o All the companies agreed

Decision: Postponed to next meeting

7.7 Location Service

Document: N4-010105
Title: LCS Air Interface Protocol for PS domain
Source: CN1
Presented: Mr. Fumihiko Yokota, Fujitsu limited
Discussion:

Decision: Noted

Document: N4-010095
Title: LS on Clarification of Privacy Exception List
Source: S1
Presented: Mr. Fumihiko Yokota, Fujitsu limited
Discussion:

- SA2 discussed this LS and confirmed the necessity of the maximum number for LCS Client. In the current LCS Stage2, there is not any description of the definition of the maximum number for LCS client.
- S2 request to define a maximum number of LCS client because of considering the protocol level.

Decision: Noted

Document: N4-010054
Title: Addition of the number for LCS Client
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- LS will be sent to SA1 & SA2
 - o N4-010197
 - o Contact person Mr Teemu Makinen, Nokia

Decision: Noted

Document: N4-010197
Title: Addition of the number for LCS Client
Source: CN4
Presented: Mr. Teemu Makinen, Nokia
Discussion:

Decision: Revised to Tdoc N4-010204

Document: N4-010204
Title: Addition of the number for LCS Client
Source: CN4
Presented: Mr. Teemu Makinen, Nokia
Discussion:

Decision: Agreed

Document: N4-010042
Title: Addition of LCS related subscriber data for PS domain
Source: Fujitsu
Presented: Mr. Shinichiro Aikawa, Fujitsu
Discussion:

- Postponed
 - o More clarification in Table2
- Modifacation in Table2 have to be made
- Nokia: Why all the information not copied from table1 to table2?

Decision: Postponed to next meeting CN4#07

Document: N4-010043
Title: The introduction of MS presence notification procedure for LCS
Source: Fujitsu
Presented: Mr. Shinichiro Aikawa, Fujitsu
Discussion:

- CN4 will study possible impacts on stage3 specifications. CN4 will submitted it to CN#11 if stage 3 is enough stabile CN4 will submitted it to CN#11.

Decision: Noted

Document: N4-010047
Title: Adaptation of SS to PS domain
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- Ericsson: Does this CR affect to any other specifications?
 - o Other specification affected: 24.007, 24.010
- 24.007 & 24.008 covers both UTRAN and GERAN
- Changes was made in cover sheet

Decision: Agreed

Document: N4-010048
Title: Adaptation of SS to PS domain
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- Other specification affected: 24.007, 24.010
 - o Changes was made in cover sheet

Decision: Agreed

Document: N4-010113
Title: PS domain support for LCS Release 4
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: Agreed

Document: N4-010053
Title: PS domain support for LCS Release 4
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- Chapter 13A.1.2 section:"GPRS node indicator » textual editing made.

Decision: Revised to Tdoc N4-010198

Document: N4-010198
Title: PS domain support for LCS Release 4
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

Decision: Agreed

Document: N4-010051
Title: Extension of call related privacy class for LCS Release 4
Source: NTC
Presented: Ms. Miyuki Soejima, NTC
Discussion:

- Location Not Allowed have to be removed

Decision: Revised to Tdoc N4-010200

Document: N4-010200
Title: Extension of call related privacy class for LCS Release 4
Source: NTC
Presented: Ms. Miyuki Soejima, NTC

Discussion:

Decision: Agreed

Document: **N4-010052**

Title: Extension of call related privacy class for LCS Release 4

Source: NTC

Presented: Ms. Miyuki Soejima, NTC

Discussion:

- Supported LCS faces have to be added
- Notification under LocationNotAllowed will be refreshed.
- LocationNotAllowed will be deleted from LCS-Privacy class and be added under NotificationToMSUser
- SupportedLCS-Phase box have to be updated

Decision: Revised to Tdoc N4-010199

Document: **N4-010199**

Title: Extension of call related privacy class for LCS Release 4

Source: NTC

Presented: Ms. Miyuki Soejima, NTC

Discussion:

-

Decision: Revised to Tdoc N4-010201

Document: **N4-010201**

Title: Extension of call related privacy class for LCS Release 4

Source: NTC

Presented: Ms. Miyuki Soejima, NTC

Discussion:

-

Decision: Agreed

7.8 AOB

7.8.1 Supplementary services

Document: **N4-010023**

Title: Incorporation of MPTY and ECT into the Subs_FSM process.

Source: Vodafone

Presented: Mr. Nick Russell, Vodafone

Discussion:

- Just for information. Will be submitted to next meeting

Decision: Noted

Document: **N4-010024**

Title: Enhancement of MPTY SDLs and CAMEL functionality.

Source: Vodafone

Presented: Mr. Nick Russell, Vodafone

Discussion:

Decision: Agreed

Document: **N4-010025**

Title: Enhancement of MPTY SDLs and CAMEL functionality.

Source: Vodafone

Presented: Mr. Nick Russell, Vodafone

Discussion:

Decision: Agreed

Document: N4-010026

Title: Enhancement of procedures for Call Hold.

Source: Vodafone

Presented: Mr. Nick Russell, Vodafone

Discussion:

- Naming of the procedure handle and retrieve is not correct.

Decision: Postponed to next Ad Hoc meeting

8 Rel-5

8.1 Camel Phase 4

Document: N4-010102

Title: Response to Liaison Statement on IPT Basic Call Handling

Source: N1

Presented:

Discussion:

Decision: Noted

8.2 CSCF-HSS, Cx-interface

Document: N4-010141

Title: Protocol Candidate Overview

Source: Motorola

Presented: Ms. Johanna Wild, Motorola

Discussion:

- RADIUS protocol is not included, however it is referred as a possible candidate (in reference list). RADIUS was not considered as a candidate protocol.

Document: N4-010027

Title: Protocol Selection for the Cx interface

Source: Ericsson

Presented: Luis Lopes Soria, Motorola

Discussion:

- France Telecom: Does MAP already included as a one of the candidates?
 - o Ericsson: We are excluded it at the beginning, because it's not so flexiable as other candidates.
- Further detailed analysis is required to understand all the detailed aspects of this requirement. However, this is an endorsed protocol requirements for Cx-interface with CN4.
- Application Context Negotiation is required to allow communication evolutionary networks. Is this provided with Diameter?
- There is a basic revision negotiation between Diameters servers is supported.
- Further detailed analysis is required to understand all the detailed aspects of this requirement. However, this is an endorsed protocol requirement for Cx interface within CN4.

Decision:

- ***Proposed Functional Grouping shall be used as a basis for protocol selection. The protocol selection for two functional groupings shall be done at next meeting (CN4#).***

Document: N4-010028
Title: Proposed Liason Statement to SA2-VHE/OSA on User Profile definition for the IP Multimedia Subsystem
Source: Ericsson
Presented: Mr. Luis Lopes Soria, Motorola
Discussion:

Decision: Postponed to the next meeting

Document: N4-010133
Title: IP Multimedia (IM) Subsystem Cx Interface – stage 2
Source: Nortel Networks
Presented: Mr. Kevin Gorey, Nortel Networks
Discussion:

- Chairman: Document will be a good start for a stage 2 specification.
 - o It should be used as an assumed but not as agreed text
- CN4 will bases the Cx Interface – stage 2 document to TS 23.228.

Decision: Noted

9 GSM Maintenance

9.1 Supplementary Services

9.2 GPRS

Document: N4-010094
Title: Failure of Update GPRS Location when HLR is not reachable (Background information)
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

- France Telecom: Location update procedure is not enough. Same problem appears also with authentication procedure.
 - o Companies agreed to France Telecom's opinion
 - o France Telecom will produce a part of CR to solve the authentication procedure problem.
- Solutions of authentication procedure have to be submitted for next meeting.

Decision: Noted

Document: N4-010055
Title: Failure of Update GPRS Location when HLR is not reachable
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

- Categorized as F: Critical correction
- Mirror CRs **N4-010056, N4-010057, N4-010058**
- Needs to update 09.10 will be checked by Vodafone.

Decision: Agreed; including mirror CRs for R98, R99 & Rel-4

Document: N4-010091
Title: Failure of Update GPRS Location when HLR is not reachable
Source: Vodafone

Presented: Mr Nick Russell, Vodafone

Discussion:

- LS to S2 cc:N1 (**N4-010180**)

Decision: Endorsed by CN4, attached to a LS to SA2

Document: **N4-010180**

Title: LS on proposed fix for GPRS Roaming issues

Source: CN4

Presented: Mr Nick Russell, Vodafone

Discussion:

Decision: Agreed

Document: **N4-010177**

Title: Roaming restrictions for GPRS service

Source: Siemens

Presented: Mr Francois Dronne, France Telecom

Discussion:

- CR was presented for the information.
 - o People should send comments by E-mail to CN4 mailing list
- "Updated" CRs will be presented in the next meeting (N4-010177 – N4-010179)

Decision: Postponed to next meeting

9.3 Location Services

Document: **N4-010034**

Title: Correction to LCS application context Oriented Services

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

Decision:

- Mirror CRs for R99 (**N4-010035**) and R4 (**N4-010036**) agreed
- Agreed by consensus

Document: **N4-010049**

Title: Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16

Source: NTC

Presented: Miyuki Soejima, NTC

Discussion:

- Categorized as F; agreed by consensus
- Miyuki Soejima will updated the cover sheet: *Consequences if not approved:*

Decision:

- Agreed by consensus
- Mirror CR for R99 (**N4-010050**)

9.4 USSD

10AOB

Document: **N4-010127**

Title: Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16

Source: NTC

Presented: Nick Russell, Vodafone

Discussion:

- MCC and editors are responsible to check if the SDL diagrams are in the format of SDT.
- Case by case it will be assessed that non SDT SDL diagrams needs to be converted.
- CN4 is responsible for the missing SSDT formatted SDL diagrams.
- MCC is responsible for the uploading to the server.
- All the updated SDL diagrams needs to be submitted in SDT format.

Decision: Noted

Document: **N4-010138**

Title: Comments from Finland on prEN 300 523 v. 4.11.0

Source: (MCC)

Presented: Kimmo Kymäläinen, MCC

Discussion:

- CN chairman informed; TSG#MSG have to handle document first

Decision: Referred back to MCC to be submitted to ETSI TC MSG

11 Output of CN4#06Meeting

11.1 TS/TRs

| Tdoc # | Tdoc Title |
|--------|------------|
| | |
| | |
| | |

11.2 WIs

| Tdoc # | Tdoc Title |
|-----------|---|
| N4-010159 | Work Item Description for Release 4: ODB (Operator Determined Barring) for Packet Oriented Services |

11.3 Liaison Statements

The following Liaison Statements were agreed to be sent by N4 #06 meeting:

| TDOC N4-00xxxx | Subject | To | Cc | Attachment | Sent |
|-------------------|---|--------|----|-----------------------------------|----------------------|
| N4-010160 | LS for clarification of MPTY issues | S1, G4 | | N4-010096, N4-010097 | 22 nd Jan |
| N4-010180 | LS on proposed fix for GPRS Roaming issues | S2 | | N4-010091, N4-010092 N4-010093 | 22 nd Jan |
| N4-010203 | Response to SA3 on SA3 agreements on MAPSec | S3 | | | 22 nd Jan |
| N4-010204 | LS on Maximum size of LCS clients | S1, S2 | | | 22 nd Jan |

11.4 Change Requests

| TDoc # | spec | Rel | CR # | R | cat | versi | Title | Source | WI |
|-----------|--------|-----|------|---|-----|--------|---|--------------------|------------------|
| N4-010012 | 23.015 | R4 | 002 | | B | 3.1.0 | Add new feature 'ODB for the Packet Oriented Services' | NEC | ODB |
| N4-010016 | 29.060 | R99 | 163 | | F | 3.7.0 | Re-configure the IEs in the PDU Notification Request to make it in ascending order | NEC | GTP Enhancements |
| N4-010019 | 29.060 | R99 | 166 | | F | 3.6.0 | Corrections to editorwork of 29.060 v 3.6.0 | Ericsson | GTP Enhancements |
| N4-010024 | 23.084 | R4 | 003 | | C | 3.2.0 | Enhancement of MPTY SDLs and CAMEL functionality | Vodafone | TEI |
| N4-010025 | 23.091 | R4 | 003 | | C | 3.2.0 | Enhancement of ECT SDLs and CAMEL functionality | Vodafone | TEI |
| N4-010032 | 29.002 | R99 | 216 | | F | 3.7.0 | Correction to maximum numbers of RAB's | Nokia | Multicall |
| N4-010033 | 29.002 | R4 | 217 | | A | 4.2.0 | Correction to maximum numbers of RAB's | Nokia | Multicall |
| N4-010034 | 09.02 | R98 | A312 | 1 | F | 7.7.0 | Correction to LCS application context | Nokia | LCS |
| N4-010035 | 29.002 | R99 | 205 | 1 | A | 3.7.0 | Correction to LCS application context | Nokia | LCS |
| N4-010036 | 29.002 | R4 | 206 | 1 | A | 4.2.0 | Correction to LCS application context | Nokia | LCS |
| N4-010047 | 24.010 | R4 | 002 | | B | 3.1.0 | Adaptation of SS to PS domain | NTC | LCS |
| N4-010048 | 24.030 | R4 | 003 | | B | 3.1.0 | Adaptation of SS to PS domain | NTC | LCS |
| N4-010049 | 03.16 | R98 | A043 | | F | 7.4.0 | Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16 | NTC | LCS |
| N4-010050 | 23.016 | R99 | 018 | | A | 3.6.0 | Alignment about Notification to MS User between 29.002 , 23.171(LCS Stage2) and 23.016 | NTC | LCS |
| N4-010051 | 23.016 | R4 | 019 | | B | 3.6.0 | Extension of call related privacy class for LCS Release 4 | NTC | LCS |
| N4-010055 | 09.02 | R97 | A315 | | F | 6.10.0 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | GPRS R97 |
| N4-010056 | 09.02 | R98 | A316 | | A | 7.7.0 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | GPRS R97 |
| N4-010057 | 29.002 | R99 | 223 | | A | 3.7.0 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | GPRS R97 |
| N4-010058 | 29.002 | R99 | 224 | | A | 4.2.0 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | GPRS R97 |
| N4-010113 | 23.016 | R4 | 020 | | B | 3.6.0 | PS domain support for LCS Release 4 | NTC | LCS |
| N4-010139 | 29.060 | R99 | 162 | | F | 3.6.0 | Handling of sequence numbers for reliable transmission of control plane messages | Lucent | GTP enhancements |
| N4-010148 | 29.060 | R4 | 160 | 1 | B | 3.6.0 | GTP-C Message Protection by IPSec | Motorola | GTP enhancements |
| N4-010158 | 23.003 | R99 | 025 | | F | 3.6.0 | Clarification to Definition of Service Area Identifier | CN4 | LCS |
| N4-010165 | 23.153 | R4 | 002 | 1 | C | 4.0.0 | Updates to align with BICC CS2 codec modification & midcall negotiation. | Ericsson | OoBTC |
| N4-010166 | 23.153 | R4 | 003 | 1 | D | 4.0.0 | General document improvements | Ericsson | OoBTC |
| N4-010167 | 23.153 | R4 | 004 | 1 | F | 4.0.0 | Updates & corrections to TFO handling. | Ericsson | OoBTC |
| N4-010168 | 23.153 | R4 | 005 | 1 | C | 4.0.0 | TrFO Break Recovery | Ericsson | OoBTC |
| N4-010169 | 23.153 | R4 | 006 | 1 | C | 4.0.0 | CCBS | Siemens | OoBTC |
| N4-010170 | 29.002 | R99 | 228 | | F | 3.7.0 | Adding EXPORT definition for LSIdentity | Ericsson | Camel 3 |
| N4-010171 | 29.002 | R99 | 229 | | F | 3.7.0 | Removing duplicate parameters from SS-CSI | Ericsson | Camel 3 |
| N4-010172 | 29.002 | R99 | 230 | | F | 3.7.0 | Correction to description of SS-CSI in HLR to VLR information flow | Ericsson | Camel 3 |
| N4-010174 | 23.153 | R4 | 009 | 2 | D | 4.0.0 | TS23.153, all chapters, editorials and minor corrections | Siemens | OoBTC |
| N4-010175 | 23.153 | R4 | 001 | 1 | D | 4.0.0 | Correct wording of Nb / lu UP protocol | Ericsson & Siemens | OoBTC |
| N4-010181 | 29.060 | R99 | 178 | 1 | | 3.7.0 | Re-configure the IEs in the Send Routeing Information for GPRS Response message to make it in ascending order | NEC | GTP Enhancements |
| N4-010182 | 29.060 | R99 | 174 | 1 | F | 3.7.0 | Essential Correction of the delete PDP context procedure | Lucent | GTP enhancements |
| N4-010183 | 29.060 | R99 | 173 | 3 | F | 3.7.0 | Clarifications to the GTP-U protocol | Nokia | GTP Enhancements |
| N4-010195 | 23.008 | R4 | 032 | 1 | B | 3.5.0 | Add new feature 'ODB for the Packet Oriented Services' | NEC | ODB |
| N4-010196 | 23.016 | R4 | 017 | 1 | B | 3.6.0 | Add new feature 'ODB for the Packet Oriented Services' | NEC | ODB |
| N4-010198 | 29.002 | R4 | 222 | 1 | B | 4.2.1 | PS domain support for LCS Release 4 | NTC | LCS |
| N4-010200 | 23.016 | R4 | 019 | 1 | B | 3.6.0 | Extension of call related privacy class for LCS Release 4 | NTC | LCS |
| N4-010201 | 29.002 | R4 | 221 | 2 | B | 4.2.1 | Extension of call related privacy class for LCS Release 4 | NTC | LCS |
| N4-010202 | 23.153 | R4 | 007 | 2 | C | 4.0.0 | chapter 5.6, establishment of additional calls | Siemens | OoBTC |

12 Review of dates and hosts for future meetings

Ad Hoc deadline for documents 8.2.2001.

CN4#07 deadline for documents 21.2.2001.

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

| 3GPP N4 Meeting | Date | Place | Host |
|--------------------------------|--|--------------------------|------------------------------------|
| N4#06 Joint meeting CN3/CN4 | 15-19 January 2001 16-17 January 2001 | Beijing, China | Ericsson China, Ericsson Sweden |
| N4#06_01 Ad Hoc Rel-4 | 13-15 February 2001 | Madrid, Spain | Ericsson Spain, Ericsson Sweden |
| N4#07 Joint meeting CN3/CN4 | 26 February -2 March 2001 T.B.A. | Sophia Antipolis, France | ETSI |
| N4#08 | 14-18 May 2001 | St. John, Caribbean | The North American Friends of 3GPP |
| N4#09 | 09-13 July 2001 | Dresden, Germany | Mannesmann |
| N4#10 | 15-19 October 2001 | UK | Vodafone, BT |
| N4#11 | 26-30 November 2001 | USA | The North American Friends of 3GPP |

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

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| | | | | | |
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**3GPP TSG CN Plenary
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001**

Tdoc NP-010061

| | | | | | |
|----------------------|--------------------------------------|-------------------|------------------|-------------------|--|
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Annex B: List of Temporary Documents

| Tdoc n° 3GPP | List of Temporary Documents | Source | Status |
|-----------------|--|--------------|--------------------------------------|
| N4-010001 | CN4#06 Meeting Agenda | CN4 Chairman | Approved |
| N4-010002 | Tdoc Allocation | CN4 Chairman | Approved |
| N4-010003 | Status Report from CN#10 | CN4 Chairman | Noted |
| N4-010004 | CN4 Meeting Calendar | CN4 Chairman | Revised Tdoc N4-010206 |
| N4-010005 | CN4#05 Meeting Report | MCC | Approved with modifications |
| N4-010006 | CN#10 Meeting Report | MCC | Noted |
| N4-010007 | SA#10 Meeting Report | MCC | Noted |
| N4-010008 | Intro of Voice Processing for 23.205 | tellabs | <i>Handled in Joint Session</i> |
| N4-010009 | TDM Circuit Package | tellabs | Revised Tdoc N4-010153 |
| N4-010010 | Proposed LS on Removal of Version not supported from GTP-U | NEC | Rejected |
| N4-010011 | Proposed Work Item Description for Release 4: ODB (Operator Determined Barring) for PS domain | NEC | Revised Tdoc N4-010159 |
| N4-010012 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Agreed |
| N4-010013 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Revised Tdoc N4-010195 |
| N4-010014 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Revised Tdoc N4-010196 |
| N4-010015 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Postponed to next meeting |
| N4-010016 | Re-configure the IEs in the PDU Notification Request to make it in ascending order | NEC | Agreed |
| N4-010017 | Clarification of using 'signalling' in some places instead of 'Control Plane' | Ericsson | Withdrawn (included in N4-010161) |
| N4-010018 | Clarification on definition of length | Ericsson | Withdrawn (included in N4-010161) |
| N4-010019 | Corrections to editorwork of 29.060 v 3.6.0 | Ericsson | Agreed |
| N4-010020 | The actions in RNC are missing when Error Indication is received | Ericsson | Withdrawn |
| N4-010021 | Clarification on the use of sequence numbers in GTP-U signalling messages | Ericsson | Withdrawn (included in N4-010161) |
| N4-010022 | Clarification of the port number for GTP-U signalling messages | Ericsson | Withdrawn (included in N4-010161) |
| N4-010023 | Incorporation of MPTY and ECT into the Subs_FSM process. | Vodafone | Noted |
| N4-010024 | Enhancement of MPTY SDLs and CAMEL functionality. | Vodafone | Agreed |
| N4-010025 | Enhancement of ECT SDLs and CAMEL functionality. | Vodafone | Agreed |
| N4-010026 | Enhancement of procedures for Call Hold | Vodafone | Postponed to next meeting |
| N4-010027 | Protocol Selection for the Cx interface | Ericsson LM | Noted |
| N4-010028 | Proposed Liason Statement to SA2-VHE/OSA on User Profile definition for the IP Multimedia Subsystem | Ericsson LM | Postponed to next meeting |
| N4-010029 | Proposed Response to SA3 on SA3 agreements on MAPSec | Siemens | Revised Tdoc N4-010176 |
| N4-010030 | Security Header modification | Siemens | Postponed |
| N4-010031 | Calculation of maximum guaranteed length for MAP payload | Siemens | Noted |
| N4-010032 | Correction to maximum numbers of RAB's | Nokia | Agreed |
| N4-010033 | Correction to maximum numbers of RAB's | Nokia | Agreed |
| N4-010034 | Correction to LCS application context | Nokia | Agreed |
| N4-010035 | Correction to LCS application context | Nokia | Agreed |
| N4-010036 | Correction to LCS application context | Nokia | Agreed |
| N4-010037 | MAP over IP according to SIGTRAN | Ericsson | Revised Tdoc N4-010149 |
| N4-010038 | Alignment of Geographic Shape Description between 29.002 MAP specification and 23.032 GAD specifications | Ericsson | Postponed to next meeting |
| N4-010039 | Alignment of Geographic Shape Description between 29.002 MAP specification and 23.032 GAD specifications | Ericsson | Postponed to next meeting |
| N4-010040 | Voice Processing Function Procedure | tellabs | <i>Handled in Joint Session</i> |
| N4-010041 | Clarification on the TEID value in the GTP header of signalling messages | Fujitsu | Postponed to next meeting |
| N4-010042 | Addition of LCS related subscriber data for PS domain | Fujitsu | Postponed to next meeting |

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|-----------|---|-----------------|---------------------------------|
| N4-010043 | The introduction of MS presence notification procedure for LCS | Fujitsu | Noted |
| N4-010044 | Modification procedure between speech and multimedia | NTT DoCoMo, NEC | <i>Handled in Joint Session</i> |
| N4-010045 | CR on 23.205 | NTT DoCoMo, NEC | <i>Handled in Joint Session</i> |
| N4-010046 | Draft feasibility study report for the Combined MAP Signalling (CoM) based on current reference model | NTT Comware | Rejected |
| N4-010047 | Adaptation of SS to PS domain | NTC | Agreed |
| N4-010048 | Adaptation of SS to PS domain | NTC | Agreed |
| N4-010049 | Alignment about Notification to MS User between 09.02 , 03.71(LCS Stage2) and 03.16 | NTC | Agreed |
| N4-010050 | Alignment about Notification to MS User between 29.002 , 23.171(LCS Stage2) and 23.016 | NTC | Agreed |
| N4-010051 | Extension of call related privacy class for LCS Release 4 | NTC | Revised Tdoc N4-010200 |
| N4-010052 | Extension of call related privacy class for LCS Release 4 | NTC | Revised Tdoc N4-010199 |
| N4-010053 | PS domain support for LCS Release 4 | NTC | Revised Tdoc N4-010198 |
| N4-010054 | Addition of LCS Client number for LCS Release 4 | NTC | Noted |
| N4-010055 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Agreed |
| N4-010056 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Agreed |
| N4-010057 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Agreed |
| N4-010058 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Agreed |
| N4-010059 | Updates to align with Nb specification | Ericsson | Revised Tdoc N4-010175 |
| N4-010060 | Updates to align with BICC CS2 codec modification & midcall negotiation. | Ericsson | Revised Tdoc N4-010165 |
| N4-010061 | General document improvements | Ericsson | Revised Tdoc N4-010166 |
| N4-010062 | Updates & corrections to TFO handling. | Ericsson | Revised to Tdoc N4-010167 |
| N4-010063 | TrFO Break Recovery | Ericsson | Revised to Tdoc N4-010168 |
| N4-010064 | Proposed improvements in Call Establishment (section 6) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010065 | Proposed improvements to cover error handling in Call Establishment (section 6) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010066 | Proposed improvements to cover GSM in Call Establishment (section 6) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010067 | Improvement to 3GPP TS 23.205 on Framing Protocol Initialisation | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010068 | Proposed changes to Call Clearing chapter | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010069 | Call Clearing, GSM Adaptation | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010070 | (G)MSC and MGW Initiated Release, Call Clearing | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010071 | Editorial corrections and proposed improvements to cover the error handling and missing data call related parts in Handover chapter (section 8) | Ericsson L.M. | Revised to Tdoc N4-010162 |
| N4-010072 | Editorial corrections and proposed improvements to cover the support of A-interface in Handover chapter (section 8) | Ericsson L.M. | Revised to Tdoc N4-010163 |
| N4-010073 | Addition of backward bearer establishment for Interactions with other Services (chapter 13) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010074 | Proposed improvements to cover error handling in Interactions with Other Services (section 13) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010075 | Proposed improvements to cover the GSM access in Interactions with Other Services (section 13) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010076 | Alignment of Call Waiting and Call Hold when establishing a new call | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010077 | Completion of Calls to Busy Subscribers | Ericsson L.M. | Revised Tdoc N4-010188 |
| N4-010078 | IST | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010079 | Charging | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010080 | Enhancements to announcement/tone handling | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010081 | Identities | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010082 | Proposed improvements to CAMEL (section 14.1) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010083 | Operator Determined Barring | Ericsson L.M. | <i>Handled in Joint</i> |

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| | | | <i>Session</i> |
|-----------|--|---------------|---------------------------------|
| N4-010084 | Proposed improvements in Messages/Procedures and Their Contents (section 15) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010085 | Tunnelling Transport Mechanism | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010086 | Changes to TS 29.232 due to revision in ITU SG 11 | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010087 | Changes to TS 29.232 due to proposed changes in Ericsson contributions | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010088 | TFO package (section 13.1.3) | Ericsson L.M. | Revised Tdoc N4-010185 |
| N4-010089 | Virtual media gateways | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010090 | BICC architecture with Q.1902 as call protocol | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010091 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Noted |
| N4-010092 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Noted |
| N4-010093 | Failure of Update GPRS Location when HLR is not reachable | Vodafone | Noted |
| N4-010094 | Failure of Update GPRS Location when HLR is not reachable (Background information) | Vodafone | Noted |
| N4-010095 | LS on Clarification of Privacy Exception List | S1 | Noted |
| N4-010096 | Request for clarification on disconnecting Multiparty calls when a single call is active. | G4 | Noted |
| N4-010097 | Request for clarification on MPTY auxiliary state when only one remote party remains | G4 | Noted |
| N4-010098 | LS on Working Assumptions made by N3 for the new TS 29.415 "Core Network Nb User Plane protocols | R3 | Noted |
| N4-010099 | Size of RANAP messages over the MAP E-interface - REPLY | R3 | Noted |
| N4-010100 | Definition of Service Area in 23.003 | R3 | Noted |
| N4-010101 | Reply to LS on RAB Assignment and QoS Negotiation | R3 | Noted |
| N4-010102 | Response to Liaison Statement on IPT Basic Call Handling | N1 | Noted |
| N4-010103 | Reply to LS on Supported Codec Lists in TS 26.103 | N1 | Noted |
| N4-010104 | Response to the LS from CN3 and CN4 on intersystem handover problem | N1 | Noted |
| N4-010105 | LCS Air Interface Protocol for PS domain | N1 | Noted |
| N4-010106 | Positive Authentication Reporting | S3 | Noted |
| N4-010107 | Protection of GTP Messages using IPSec | S3 | Noted |
| N4-010108 | RE: LS on size of ranap messages over map-e | S2 | Noted |
| N4-010109 | LS on RAB Assignment and QoS Negotiation | S2 | Postponed |
| N4-010110 | Response to Liaison Statement on identifying responsibility for selection of the protocol over the Mp interface (Between SGSN server and PS-MGW) | S2 | Noted |
| N4-010111 | RE: LS, SRNS relocation based on global title | S2 | Noted |
| N4-010112 | Clarification on the IP Destination Address of the GTP-C messages | Fujitsu | Withdrew |
| N4-010113 | PS domain support for LCS Release 4 | NTC | Agreed |
| N4-010114 | Alternate Speech/Fax | Ericsson L.M. | Revised Tdoc N4-010152 |
| N4-010115 | Multicall | Ericsson L.M. | Revised Tdoc N4-010184 |
| N4-010116 | 3G UP package in 29.232 | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010117 | CS Data package enhancements | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010118 | Tone Generator package | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010119 | CCBS | Siemens | Revised Tdoc N4-010186 |
| N4-010120 | CCBS | Siemens | Revised Tdoc N4-010169 |
| N4-010121 | TS 23.205, chapter 13.5, Additions and corrections | Siemens | Revised Tdoc N4-010189 |
| N4-010122 | TS 23.205, chapter 13.7, Additions and corrections | Siemens | Postponed to next meeting |
| N4-010123 | TS23.153, chapter 5.6, establishment of additional calls | Siemens | Revised Tdoc N4-010154 |
| N4-010124 | TS23.153, chapter 5.6, establishment of additional calls | Siemens | Withdrew (Same as N4-010123) |
| N4-010125 | TS23.153, all chapters, editorials and minor corrections | Siemens | Revised Tdoc N4-010155 |
| N4-010126 | TS23.153, all, rewording of "TBE" | Siemens | Revised Tdoc N4-010156 |

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| N4-010127 | The need for SDL source files | Vodafone | Noted |
| N4-010128 | Mapping of IEs between GTP and GMM/SM and RANAP | Ericsson | Noted |
| N4-010129 | Addition of selected UMTS algorithms indication to the handover procedures | Nokia | postponed to next meeting |
| N4-010130 | Addition of allowed GSM algorithms indication to the handover procedures | Nokia | postponed to next meeting |
| N4-010131 | Indication of relocation requirement in Forward Relocation Request | Nortel Networks | postponed to next meeting |
| N4-010132 | BICSCN – Bearer Redirection | Nortel Networks | Revised Tdoc N4-010190 |
| N4-010133 | IP Multimedia (IM) Subsystem Cx Interface – stage 2 | Nortel Networks | Noted |
| N4-010134 | TS23.153, all, correct wording of Nb / lu UP protocol | Siemens | Revised Tdoc N4-010157 |
| N4-010135 | Adding Up-link TEID Data I and user plane GGSN address to PDP Context IE | Nokia, Ericsson | Postponed to next meeting |
| N4-010136 | Clarifications to the GTP-U protocol | Nokia | Revised Tdoc N4-010145 |
| N4-010137 | Discussion paper on Clarifications to the GTP-U protocol. | Nokia | Revised Tdoc N4-010146 |
| N4-010138 | Comments from Finland on prEN 300 523 v. 4.11.0 | MCC | Noted |
| N4-010139 | Handling of sequence numbers for reliable transmission of control plane messages | Lucent | Agreed |
| N4-010140 | Essential Correction of the delete PDP context procedure | Lucent | Revised to Tdoc N4-010182 |
| N4-010141 | Protocol Candidate Overview | Motorola | Noted |
| N4-010142 | Clarification on T3-Response Timer Usage | Motorola | Withdraw (included in N4-010161) |
| N4-010143 | Correction on GTP-U header message length | Motorola | Withdraw (included in N4-010161) |
| N4-010144 | Correction for GTP-U request message | Motorola | Withdraw (included in N4-010161) |
| N4-010145 | Clarifications to the GTP-U protocol | Nokia | Revised to Tdoc N4-010161 |
| N4-010146 | Discussion paper on Clarifications to the GTP-U protocol. | Nokia | Withdraw |
| N4-010147 | Draft 28.062 (Tandem Free Operation - TFO) | Siemens | Noted |
| N4-010148 | GTP-C Message Protection by IPSec (resubmission) | Motorola | Agreed |
| N4-010149 | MAP over IP according to SIGTRAN | Ericsson | Noted |
| N4-010150 | Reply to LS on Operator Determined Barring of Packet Oriented Services (N4-001080) | S1 | Noted |
| N4-010151 | LS to CN4 on SA3 agreements on MAPSec | S3 | Noted |
| N4-010152 | Alternate Speech/Fax | Ericsson L.M. | Agreed |
| N4-010153 | TDM Circuit Package | Tellabs | <i>Handled in Joint Session</i> |
| N4-010154 | TS23.153, chapter 5.6, establishment of additional calls | Siemens | Revised Tdoc N4-010173 |
| N4-010155 | TS23.153, all chapters, editorials and minor corrections | Siemens | Revised Tdoc N4-010174 |
| N4-010156 | TS23.153, all, rewording of "TBE" | Siemens | Postponed to next meeting |
| N4-010157 | TS23.153, all, correct wording of Nb / lu UP protocol | Siemens | Revised Tdoc N4-010175 |
| N4-010158 | Clarification to Definition of Service Area Identifier | CN4 | Approved |
| N4-010159 | Proposed LS on Removal of Version not supported from GTP-U | NEC | Approved |
| N4-010160 | LS to SA1 and G4 (Nick Russell, Vodafone) | N4 | Agreed |
| N4-010161 | Clarifications to the GTP-U protocol | Nokia | Revised Tdoc N4-010183 |
| N4-010162 | Editorial corrections and proposed improvements to cover the error handling and missing data call related parts in Handover chapter (section 8) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010163 | Editorial corrections and proposed improvements to cover the support of A-interface in Handover chapter (section 8) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010164 | Tone Generator package | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010165 | Updates to align with BICC CS2 codec modification & midcall negotiation. | Ericsson | Agreed |
| N4-010166 | General document improvements | Ericsson | Agreed |
| N4-010167 | Updates & corrections to TFO handling. | Ericsson | Agreed |
| N4-010168 | TrFO Break Recovery | Ericsson | Agreed |
| N4-010169 | CCBS | Siemens | Agreed |
| N4-010170 | Adding EXPORT definition for LSAIdentity | N2 | Agreed |
| N4-010171 | Removing duplicate parameters from SS-CSI | N2 | Agreed |
| N4-010172 | Correction to description of SS-CSI in HLR to VLR information flow | N2 | Agreed |
| N4-010173 | TS23.153, chapter 5.6, establishment of additional calls | Siemens | Revised Tdoc N4-010202 |

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| N4-010174 | TS23.153, all chapters, editorials and minor corrections | Siemens | Agreed |
| N4-010175 | TS23.153, all, correct wording of Nb / lu UP protocol | Siemens, Ericsson | Agreed |
| N4-010176 | Proposed Response to SA3 on SA3 agreements on MAPSec | Siemens | Revised Tdoc N4-010203 |
| N4-010177 | Roaming restrictions for GPRS service | Siemens | Postponed to next meeting |
| N4-010178 | Roaming restrictions for GPRS service | Siemens | Postponed to next meeting |
| N4-010179 | Roaming restrictions for GPRS service | Siemens | Postponed to next meeting |
| N4-010180 | Failure of Update GPRS Location when HLR is not reachable | N4 | Agreed |
| N4-010181 | Re-configure the IEs in the Send Routing Information for GPRS Response message to make it in ascending order | NEC | Agreed |
| N4-010182 | Essential Correction of the delete PDP context procedure | Lucent | Agreed |
| N4-010183 | Clarifications to the GTP-U protocol | Nokia | Agreed |
| N4-010184 | Multicall | Ericsson L.M. | Agreed |
| N4-010185 | TFO package (section 13.1.3) | Ericsson L.M. | <i>Handled in Joint Session</i> |
| N4-010186 | CCBS | Siemens | Same as NJ-010068 Revised Tdoc N4-010187 |
| N4-010187 | CCBS | Siemens | Agreed |
| N4-010188 | Completion of Calls to Busy Subscribers | Ericsson L.M. | Agreed |
| N4-010189 | TS 23.205, chapter 13.5, Additions and corrections | Siemens | Agreed |
| N4-010190 | BICSCN – Bearer Redirection | Nortel Networks | Agreed |
| N4-010191 | Reply LS to "Protection of GTP Messages using IPsec" | S3 | Noted |
| N4-010192 | Liaison statement to CN4 regarding Positive Authentication Reporting | S3 | Noted |
| N4-010193 | Request for information to complete security work items | S3 | Postponed |
| N4-010194 | Response to LS on connecting a GERAN to a Rel4 cs CN node via A interface | GERAN | Noted |
| N4-010195 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Agreed |
| N4-010196 | Add new feature 'ODB for the Packet Oriented Services' | NEC | Agreed |
| N4-010197 | LS on Maximum size of LCS clients | CN4 | Revised Tdoc N4-010204 |
| N4-010198 | PS domain support for LCS Release 4 | NTC | Agreed |
| N4-010199 | Extension of call related privacy class for LCS Release 4 | NTC | Revised Tdoc N4-010201 |
| N4-010200 | Extension of call related privacy class for LCS Release 4 | NTC | Agreed |
| N4-010201 | Extension of call related privacy class for LCS Release 4 | NTC | Agreed |
| N4-010202 | TS23.153, chapter 5.6, establishment of additional calls | Siemens | Agreed |
| N4-010203 | Response LS to SA3 on SA3 agreements on MAPSec | Siemens | Agreed |
| N4-010204 | LS on Maximum size of LCS clients | CN4 | Agreed |
| N4-010205 | Output Documents | CN4 Chairman | Agreed |
| N4-010206 | CN4 Meeting Calendar | CN4 Chairman | Noted |

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.

2.6 3GPP email lists:

To receive information about CN3 issues, all delegates and other interested parties MUST register for email list **3GPP_TSG_CN_WG4**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

subscribe 3GPP_TSG_CN_WG4 YourFirstName YourLastName

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

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

QUERY *

2.7 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 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

search * in 3GPP_TSG_CN_WG4 since Jan 1999

As well as a list of emails sent, you receive instructions about how to retrieve the emails.

Some 3GPP archives are also available via a new user-friendly WWW interface. For CN4, go to: http://list.3gpp.org/archives/3gpp_tsg_cn_wg4.html

2.8 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>

2.9 Documents on the server:

All documents submitted to CN4 meetings will be made available on the 3GPP document server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/ e.g. the documents for CN4 meeting #4 can be found at: ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/tsgN4_04/Docs/

ANNEX D: Document history

| Document History | |
|---------------------------------|--|
| 16th Feb 2001 | <p>DRAFT v.1.0.0 dispatched to the TSG_CN4 mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.fr</p> <p>A deadline of a week was given to the CN delegates for e-mail comments on the draft report.</p> <p>E-mail comments back by 23th February 2001</p> |
| 26th Feb 2001 | Draft report v2.0.0 placed on the FTP serve |
| 05th Mar 2001 | Version 2.0.0 approved at CN4#07 Meeting in Sophia Antipolis – Made version 3.0.0. Placed to server as the official meeting report. |