3GPP TSG CN Plenary Meeting #10, Bangkok, Thailand 6th – 8th December 2000

Source: TSG CN WG 4

Title: CN4 WG #05 draft meeting report

Agenda item: 6.4.1

Document for: Information

Introduction:

This document includes CN4 WG #05 draft meeting report, Paris 13.-17.11.2000. It is forwarded to TSG CN Plenary meeting #10 for information only.

TDoc #	Tdoc Title
N4-00xxxx	CN4 WG #05 meeting report

3GPP TSG-CN4 *NP-000632*



Third Generation Partnership Project

Draft Meeting REPORT v1.0.0 3GPP TSG-CN4 WG #05

Paris, FRANCE 13th – 17th November 2000



Hosted by Alcatel, FRANCE

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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1 Opening of the meeting Approval of Agenda

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

On behalf of Alcatel, Jean-Alain Evenou welcomed the group of participants and gave the usual logistic information after the meeting.

The chair informed the delegates that he will handle all the Rel-4 issues and vice chairman will handle all –R99 issues.

The agenda was presented and approved (N4-00901).

2 Document Allocation

Document allocation was approved (N4-00902).

2.1 Make calls for IPRs

Document will be inserted to meeting report (N4-001046). Document is included as Annex C.

3 Meeting Reports

2.2 Seattle meeting report

The Seattle meeting report (N4-000903) was approved.

2.3 CN4 ad hoc in Stockholm

Document noted. (N4-000904) Final version will send out by E-mail.

2.4 TrFO/TFO harmonisation workshop #04 in Windsor

Document approved. (N4000905)

2.5 TrFO/TFO harmonisation workshop #05 in Stockholm

Document noted. (N4-001027)

2.6 CN#9 meeting report

Document noted. (N4000905)

4 Liaison Statements

Document: N4-000951

Title: proposed response to Liaison Statement on IPT Basic Call Handling

Source: S2 Presented: Chairman

Discussion:

This was drafted before CN#09

Lots of IPT basic call handling were changed

Decision: Noted

Document: N4-000952

Title: Draft LS on GERAN impacts on overall system architecture

Source: S2

Presented: Ian Park, Vodafone

Discussion:

There are impacts to (2G) SGSN by the Gb interface and to another (3G) SGSN by the

Iu-ps interface

- Iu-ps have to investigate by CN4

Response to S2

LS to S2; Tdoc N4-0001045

Decision: Noted

Document: N4-000953

Title: Response LS on RAB Assignment QoS Negotiation

Source: S2

Presented: Kevin Corey, Nortel Networks **Discussion:** No discussion, no comments

Decision: Noted

Document: N4-001035

Title: Response to "LS on RAB Assignment QoS Negotiation" from RAN 3

Source: N1

Presented: Teemu Makinen, Nokia

Discussion: No discussion, no comments

Decision: Noted

Document: N4-000956

Title: LS Regarding WI for "Transcoder At The Edge" **Source:** 3GPP harmonisation TrFO/TFO Workshop

Presented: Elena Garcia-Mendeve **Discussion:** No discussion, no comments

Decision: Noted

Document: N4-000961

Title: LS reply to CN1 on Supported Codec Lists in 26.103

Source: S4

Presented: Elena Garcia-Mendeve

Discussion: No discussion, no comments

Decision: Noted

Document: N4-001034

Title: Response to LS on Support of additional GPRS ciphering algorithms

Source: N1

Presented: Luis Lopes, Ericsson

Discussion: No discussion, no comments

Decision: Noted

Document: N4-001036

Title: Liaison statement on the introduction of GEA2.

Source: N1

Presented: Ulrich Wiehe, Siemens

Discussion:

- No comments before CN & SA

Decision: Noted

Title: Response to liaison statement on support of AMR via lu-ps in GERAN

Source: R3 Presented: None

Discussion: None

Decision: Noted without presentation

Document: N4-001039

Title: LS to S2 on use of IP for security key distribution

Source: S3 **Presented:** None

Discussion: None

Decision: Noted without presentation

5 Work Item Management

Document: N4-000950

Title: Work Item description: "Subscriber Data Management in the IP Multimedia CN Subsystem"

Source: Ericsson

Presented: Luis Lopes, Ericsson

Discussion:

FT: Protocol specification part of this WI?

o Ericsson: No it isn't.

Decision: Ericsson, BT& NORTEL Network will combine N4-000950 & N4-000968. WI tdoc will be

N4-001049

Document: N4-000968

Title: IP Multimedia CN Subsystem: Cx Technical Recommendations

Source: Nortel Networks **Presented:** Kevin Corey

Discussion:

- We will need WI description with stage 2 activities. Protocol selection feasibility

Ericsson, BT& Nortel Network will bring in if there is a new TS or CR's for existent

specifications 23.008 and 23.016

Decision: Ericsson, BT& NORTEL Network will combine N4-000950 & N4-000968. WI tdoc will be

N4-001049

Document: N4-000969

Title: 3GPP UMTS Release 5 HSS-to-CSCF Interactions

Source: Nortel Networks

Presented: Kevin Corey, Nortel Networks

Discussion:

Nortel Network's opinion: the CN4 is the WG who is deciding the protol (Cx-protocol)

Nokia: S2 is a right WG to decide protocol

o Vodafone: CN4 is a right place to decide the protocol if there are no architectual

impacts

- Nortel Networks: TR would be used to investigate the protocol

New Wi document will be published Tdoc.N4-001049

Decision: Noted

Document: N4-001049

Title: Work Item Description: "IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface"

Source: Ericsson

Presented: Luis Lopes, Ericsson

Discussion:

Section 1 Work area: Services will be removed

Section 4: "The output should be a **decision** on the most suitable protocol for the Cx interface." Have to be changed, as "The output should be a **recommendation** on the

most suitable protocol for the Cx interface."

Some other textual modifications were made CN4

- Document will be revised

Decision: Revised in Tdoc N4-001065

Title: Work Item Description: "IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface"

Source: Ericsson

Presented: Luis Lopes, Ericsson

Discussion:

Decision: Agreed

Document: N4-001058

Title: LS on the Work Item "Cx Interface specification"

Source: N4

Presented: Yun-Chao Hu, Ericsson

Discussion:

- Textual modifications were made

Decision: Revised in Tdoc N4-001066

Document: N4-001066

Title: LS on the Work Item "Cx Interface specification"

Source: N4

Presented: Yun-Chao Hu, Ericsson

Discussion:

6 R99

6.1 Camel Phase 3

Document: N4-000907

Title: Corrections of ISD data structure for CAMEL phase 3

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion:

- Vodafone agrees with Nokia & Siemens about corrections

Also mirror CR 29.002-191 for R4 will be approved

Decision: Agreed

Document: N4-000908

Title: Corrections of ISD data structure for CAMEL phase 3

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion:

-

Decision: Agreed

Document: N4-001047
Title: ATSI correction
Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion:

RequestedSS-InfoList ::= SEQUENCE SIZE (1.. maxNumOfBasicServices)

Size is 70 (desimal)

Category F

Critical correction

Decision: Agreed

Document: N4-001048
Title: ATSI correction

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion:

Decision: Agreed

Document: N4-001088

Title: Indroduction of GGSN address

Source: T-Mobil

Presented: Steffen Habermann, T-mobil

Discussion:

Cover sheet modification

- Category F

o Critical correction

Decision: Agreed

N4-001089 **Document:**

Title: Indroduction of GGSN address

Source: T-Mobil

Presented: Steffen Habermann, T-mobil

Discussion:

Decision: Agreed

6.2 USSD

Document: N4-000913 Title: ATSI correction

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion:

Lucent: USSD is not a part of follow me but actually they do not have strong opinion.

They can accept the CR.

"NOTE: On the HLR - VLR interface the Originating reference may be omitted."

Have to be changed as:" The Originating reference may be omitted"

Decision: Revised in Tdoc N4-001068

N4-000914 **Document:** Title: ATSI correction

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion:

Decision: Revised in Tdoc N4-001069

Document: N4-001068 Title: ATSI correction

Siemens Source:

Presented: Peter Schmitt, Siemens

Discussion:

R99

Decision: Agreed

Document: N4-001069 Title: ATSI correction

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion:

R4

6.3 Handover

Document: N4-000915

Title: GSM to 3G Handover: Location Reporting in 3G_MSC-B

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Nortel: Location Report Control does not need, it can do by O&M

Decision: Agreed

Document: N4-000916

Title: GSM to 3G Handover: Chosen IEs in Handover Request Ack

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Category F

CR is supported by consensus in the CN4

Decision: Agreed

Document: N4-000917

Title: GSM to 3G Handover: Chosen IEs in Handover Request Ack

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

It is proposed that neither the MAP parameter Target Cell Id nor the Target RNC Id shall

be included in MAP_PREPARE_HANDOVER and MAP_PREPARE

SUBSEQUENT_HANDOVER in case of inter-system handover GSM to UMTS.

-

Decision: Agreed on Stage 2 CR

Document: N4-000918

Title: GSM to 3G Handover: MAP parameter Target Cell ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Revised in Tdoc N4-001070

Document: N4-001070

Title: GSM to 3G Handover: MAP parameter Target Cell ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000919

Title: GSM to 3G Handover: MAP parameter Target Cell ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Revised in Tdoc N4-001071

Document: N4-001071

Title: GSM to 3G Handover: MAP parameter Target Cell ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000920

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Vodafone: There could be major problem if CR is not approved

o Category F, Critical correction

Decision: Agreed

Document: N4-000921

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Category A

Decision: Agreed

Document: N4-000922

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Category F, critical correction

Decision: Revised in Tdoc N4-001072

Document: N4-001072

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000923

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Category A

Decision: Revised in Tdoc N4-001073

Title: ASN.1 description of TargetCellId in MAP

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000924

Title: GSM/UMTS Interworking: Mapping of cause codes

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

- Vodafone was concern if 29.010 is the correct specification to insert this CR.

- Chairman: It's not clear which is the correct specification.

CN4 agreed to insert CR to 29.010.

Alcatel: HANDOVER REQUEST REJECT should be in Handover Require reject in the

last page

Invalid message context shall be mapped to single message

Decision: Revised in Tdoc N4-001074

Document: N4-001074

Title: GSM/UMTS Interworking: Mapping of cause codes

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000937

Title: Alignment of the Target RNC-ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

- Vodafone, Ericsson & Siemens will solve reference

Decision: Revised in Tdoc N4-001075

Document: N4-000938

Title: Alignment of the Target RNC-ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Vodafone, Ericsson & Siemens will solve reference

Decision: Revised in Tdoc N4-001076

Document: N4-001075

Title: Alignment of the Target RNC-ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Title: Alignment of the Target RNC-ID

Source: Ericsson

Presented: Ciriaco Angelo, Ericsson

Discussion:

Decision: Agreed

Document: N4-000955

Title: Intersystem handover problem

Source: CN3

Presented: Ahti Muhonen, Nokia

Discussion:

LS to CN3 & CN1 Tdoc N4-001077

Decision: Noted

Document: N4-000939

Title: Proposal to solve intersystem handover problem

Source: Alcatel

Presented: Jean-Alain Evenou, Alcatel

Discussion:

- Correct way is answer back to N1 and N3.

Decision: Noted

Document: N4-000927

Title: Indication of Intra-MSC Intersystem handover from MSC-B to MSC-A

Source: Nokia Presented: None

Discussion:

Decision: Withdraw

Document: N4-000928

Title: Indication of Intra-MSC Intersystem handover from MSC-B to MSC-A

Source: Nokia Presented: None

Discussion:

Decision: Withdraw

Document: N4-001031

Title: Size of RANAP messages over MAP-E

Source: R3

Presented: Yun-Chao Hu, Ericsson

Discussion:

- RAN WG3 have discussed a number of different approaches which are outlined below:
 - 1. Enhance the capacity of MAP-E. This could be done by mandating White Book SCCP (07/96) in the E interface. That would allow the maximum payload of about 2.5 koctets, which should be enough for all RANAP messages.
 - 2. Reduce the size of the too large RANAP messages. This is difficult in general, and it is unlikely to be a solution for the message mentioned above since it would be required to make a very substantial decrease in this case.

- Use additional layer. This layer would do the necessary segmentation and reassembly to a smaller size based on the capability of the lower layers. Even though such a layer could be fairly simple, it is undesirable to have a new protocol layer defined for the R99 interfaces.
- 4. Avoid using the MAP E-Interface. The main idea is to allow any MSC in a PLMN to setup an SCCP connection directly to any RNC within the same PLMN. In this way we would avoid making inter-MSC relocations and could thus avoid using MAP-E for intra-UMTS relocations. This solution would solve the problem, but would also introduce an architectural change very late for the R99 version of the standards.
- Majority of meeting support approach number 1.
- Siemens: Would like to limit use of whitebook SCCP signalling to MAP-E interface and with the Handover operation.
 - Vodafone agrees, all the other signalling will support whitebook SCCP at the beginning of July 2002
- LS to R3; Tdoc N4-001078

- CR 29.002-209 R99 will be published (N4-001079), also mirror CR 29.002-212 Rel-4 (N4-001095)

Decision: Noted

Document: N4-001079

Title: Transport of long RANAP messages on MAP-E interface

Source: Alcatel

Presented: Jean-Alain Evenou, Alcatel

Discussion:

Decision: Agreed

Document: N4-001095

Title: Transport of long RANAP messages on MAP-E interface

Source: Alcatel

Presented: Jean-Alain Evenou, Alcatel

Discussion:

- Mirror of R99

Decision: Agreed

6.4 Supplementary Services

Document: N4-001016

Title: CR 24.080 – 007 on Correction to Annex A.

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

- Ulrich will regenerate the Annex A.

New version of 24.080 will be 3.4.1

Decision: Withdraw

Document: N4-001023

Title: ODB works for PS domain

Source: NEC

Presented: Tamura-san, NEC

Discussion:

Vodafone: It's too late for release 99.

- To send a liaison S1: It's not in R99 ask if they want to set requirements to R4.

NEC: Modification to stage 2 it's not a problem. We can handle it as correction.

- Alcatel: A Service requirement needs more clarification.
- Ericsson: R99 is frozen.
- CN4 Agrees should not be changed in stage 2 and stage 3
- LS to S1 Tdoc N4-001080
- NEC: If S1 says yes: Do we need WI?

С

Decision: Noted

Document: N4-001080

Title: LS on Operator Determined Barring of Packet Oriented

Source: N4

Presented: Ian Park, Vodafone

Discussion:

NEC: We hope that N4-1023 will be included in LS

 Vodafone agrees but they will in clearence that attachement represent only NEC point of you, not CN4

Ericsson & Nokia: Attachement do not need. It might be cause confusion in S1.

CN4 decided do not change LS

LS to S1 as soon as possible

o LS was sent out 15.11.2000

Decision: Approved

Document: N4-001018

Title: CR 23.082 – 009 on Correction of message between VLR and HLR.

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

Siemens: "C Conditional (The IE shall be sent, if available)" have to be removed

Category F

Accepted by a consensus of the meeting

Decision: Revised in Tdoc N4-001081

Document: N4-001081

Title: CR 23.082 – 009 on Correction of message between VLR and HLR.

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion: None

Decision: Agreed without presentation

6.5 GPRS

Document: N4-000926

Title: CR 29.002 – 201 on Addition of Charging Type Support indicator to the GPRS Location Update

Source: Nokia **Presented:** None

Discussion: None

Decision: Withdrew

Document: N4-000927

Title: CR 29.002 – 202 on Addition of Charging Type Support indicator to the GPRS Location Update

Source: Nokia Presented: None Discussion: None

Decision: Withdrew

Document: N4-000941

Title: CR 29.060 – 149 on Clarification on the use of Teardown Indicator

Source: Fujitsu

Presented: Shinichiro Aikawa, Fujitsu

Discussion:

Category will be F.

- Aikawa-san will add the text: A CR is supported by consensus in the CN4 meeting

Decision: Agreed

Document: N4-000942

Title: CR 29.060 – 150 on Correction to the PDU Notification Request message

Source: NEC, Fujitsu

Presented: Toshiyuki Tamura, NEC

Discussion:

Vodafone: Is this essential correction?

o NEC: Yes it is. System doesn't work without correction.

CN4 will accept the CR.

o Category will be F.

Tamura-san will add the text: A CR is supported by consensus in the CN4

meeting

- LS to S2 (N4-001050)

Decision: Agreed

Document: N4-000945

Title: Proposed LS back to RAN3 on R99 Loss less Relocation for UMTS

Source: NTT

Presented: Takeshi Igarashi, NTT

Discussion:

CR will be changed category F

- Incorrect implementation of a previously approved CR.

- New Title: Correction of wrong entry in information table

o There should be CR number included

- 7.5 will be changed also

The new Tdoc N4-001051

Decision: Revised in Tdoc N4-001051

Document: N4-001051

Title: Proposed LS back to RAN3 on R99 Lossless Relocation for UMTS

Source: NTT

Presented: Takeshi Igarashi, NTT

Discussion:

Decision: Agreed

Document: N4-000946

Title: Moving informative Annex A from 3G TS 29.060 and making it normative.

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

- CR will be as R99 even the original was R4.

- Ahti will add the text: A CR is supported by consensus in the CN4

Decision: Agreed

Document: N4-000947

Title: Moving of Annex A to 3G TS 23.003.

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

CR will be as R99

- Ahti will add the text: A CR is supported by consensus in the CN4

Decision: Agreed

Document: N4-000972

Title: Selecting GGSN IP Address

Source: Nokia

Presented: Georgi Gulvani, Nokia

Discussion:

CN4 agreed that CR is functional modification

Approval is not acceptable

Decision: Revised Tdoc N4-001055

Document: N4-001055

Title: Selecting GGSN IP Address

Source: Nokia

Presented: Georgi Gulvani, Nokia

Discussion:

29.060 reads, that "the GGSN IP address where the SGSN sends the Create PDP Context Request the first IP address in the list of IP addresses provided by the DNS server". Using the first address from the list is not the best possible way of selection. Therefore, this feature should be an implementation dependent one. It is relevant to note, that this issue does not belong to the 29.060.

Stage 2 specs do not specify how SGSN shall select the IP address.

- It is proposed to remove the above-mentioned ambiguous statement.
- Besides, it is proposed to correct an editorial error in Section 6, Figure 3.

Decision: Agreed

Document: N4-000962

Title: Removal of 'Version not Supported' for GTP-U

Source: Nortel Network Presented: Kevin Corey

Discussion:

Category F

A CR is supported by consensus in the CN4

- Section 9.3.1 should be change also modified.

Decision: Revised in Tdoc N4-001052

Title: Removal of 'Version not Supported' for GTP-U

Source: Nortel Network Presented: Kevin Corey

Discussion:

-

Decision: Agreed

Document: N4-001011

Title: Compatibility GTPv0/GTPv1 in case of SGSN change

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion:

- Category F

- CR is presented before. Then CN4 decided to wait SA2 decision.

o CR's approved in S2, also in plenary meeting.

A CR is supported by consensus in the CN4.

Revised Tdoc N4-001053

Decision: Revised in Tdoc N4-001053

Document: N4-001053

Title: Compatibility GTPv0/GTPv1 in case of SGSN change

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion: None

Decision: Agreed

Document: N4-001012

Title: MS Network Capability in MM context

Source: Siemens

Presented: Peter Schmitt, Siemens

Discussion: None

Decision: Agreed

Document: N4-000959

Title: N4 and S2 on R99 Loss less Relocation for UMTS

Source: R3

Presented: Giorgi Gulbani, Nokia

Discussion:

R3 has identified two possible solutions:

 Use a totally separate tunnel for forwarding and "regular" lu (would need new IE in RANAP, and changes to 23.060)

o Modify the rule in GTP, to allow this scenario in the case of data forwarding

Nortel support 1. solution.

- Alcatel, Ericsson, Nokia, Fujitsu support 2. solution.

- Vodafone: We should answer to R3 that there are no consensus in CN4

 CN4 couldn't solve the issue. LS will be sent to CN (cc: S2, R3) they will solve the problem

- Response LS to R3 in N4-001056

Decision: Noted

Document: N4-001022

Title: Adding Uplink TEID for Data I and user plane GGSN address to PDP Context IE

Source: Nokia, Alcatel

Presented: Giorgi Gulbani, Nokia

Discussion:

Decision: Withdraw

Document: N4-001044

Title: Handling of GTP-U packets in the UL direction during relocation

Source: Nortel Network

Presented: Kevin Gorey, Nortel Network

Discussion:

Decision: Noted

Document: N4-000943

Title: Proposed LS back to R3 on R99 Loss less Relocation for UMTS

Source: NEC

Presented:

Discussion:

-

Decision: Withdraw

Document: N4-000960

Title: Real Time SRNS Relocation for PS Domain RABs

Source: R3

Presented: Giorgi Gulbani, Nokia

Discussion:

- Solution 1 utilises the Release 99 mechanism in Iu interface to support also real time SRNS Relocations. Both the intra- and inter SGSN cases are handled by RANAP. To realise the SRNS relocation for real time services it is required that target SGSN gets the IP address of the GGSN and TEID to be used for the uplink traffic of the UE between target SGSN and GGSN. One possibility is to get them from source SGSN, and in this situation both the source and target SGSN would be using the same IP address and TEID of the GGSN.
- Solution 2 utilises CN bi-casting based mechanism for the Real Time services. In the inter SGSN relocation case the CN bi-casting mechanism requires that SGSN is able to initialise bi-casting from the active GGSNs, the GGSN(s) are able to handle two GTP tunnels towards SGSNs and GGSN is able to perform bi-casting of the downlink data during SRNS Relocation. In the intra SGSN SRNS relocation case the SGSN is required to be able to handle two GTP tunnels towards RNCs and to perform the bi-casting of downlink data during SRNS Relocation.
- CN4 agrees that both solutions are feasibility.
- LS to R3 Tdoc. N4-001057

Decision: Noted

Document: N4-001057

Title: Answer to RAN 3 LS on Real Time SRNS Relocation for PS Domain RABs

Source: N4

Presented: Laurent Thiebaut, Alcatel

Discussion:

- Which stage
- TSG CN WG4 thanks RAN WG3 for their LS on Real Time SRNS Relocation for PS Domain RABs in which they describe 2 solutions:
 - "Solution 1 utilises the Release 99 mechanism in lu interface to support also real time SRNS Relocations"

- "Solution 2 utilises CN [GGSN] bi-casting based mechanism for the Real Time services"
- TSG CN WG4 answer is
 - Both solutions are feasible
 - For solution 2, the delay required to initialise the GGSN bi-casting procedure will be the longest delay to exchange an acknowledged GTP-C message between SGSN and any GGSN serving RT traffic for the user being relocated. This delay would make the relocation preparation phase longer than it is according to current R99 specifications.
 - Solution 1 would require less standardisation effort because for this solution only stage 3 (29.060) needs to be corrected whereas solution 2 requires the introduction of new messages (and procedures) both in stage 2 and stage 3. Furthermore TSG CN WG4 thinks that it is important to fix this issue of "Real Time SRNS Relocation for PS Domain RABs" for R4 in order not to jeopardise completion of IM specifications for R5.
 - Modifications required by solution 1 have been discussed (see attached N4-001022 and N4-000943 (the latter about R3-(00)2874 which is a connected to subject)) but no agreement has been reached due to the very strong opposition of one company.
- After hard discussion Nokia brought in that the first sentence of third bullet point should be removed.
- Third bullet item will be deleted.

Decision: Agreed

Document: N4-001050

Title: LS on GGSN address selection mechanism in SGSN in case of network requested PDP

context activation procedure

Source: NEC

Presented:

Discussion:

Will be sent to S2 meeting ASAP!!!
 LS was sent out 14.11.2000

Decision: Agreed

6.6 Basic Call Processing

No documents

6.7 Location Services

No documents

6.8 ASCI

Document: N4-000932

Title: The accepted priority in the call proceeding message

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

- Nokia: Category C, Functional modification of feature is not allowed anymore R99. Decision has made in CN plenary Hawaii (CN#09).
 - Sagem: We would like to see it as correction.
- In call proceeding part the sentence: "The network should include... " Should be changed "The network shall include... "
- Category will be F.
 - A CR, which is supported by consensus in the meeting.
- Sagem will checked if correction have to make also stage 3 specification 24.067

o If correction will be needed Sagem will input new CR for stage 3

Title: The accepted priority in the CALL PROCEEDING message

Decision: Revised in Tdoc N4-001084

Document: N4-001084

Title: The accepted priority in the call proceeding message

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

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Decision: Revised in Tdoc N4-001111

Document: N4-001111

Title: The accepted priority in the call proceeding message

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

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Decision: Agreed

Document: N4-001087

Title: The accepted priority in the call proceeding message for GSM and UMTS

Source: Sagem, Ericsson Vivien Perlick, Sagem

Discussion:

Decision: Revised in Tdoc N4-001112

Document: N4-001112

Title: The accepted priority in the call proceeding message for GSM and UMTS

Source: Sagem, Ericsson Vivien Perlick, Sagem

Discussion:

Decision: Revised to N4-001115

Document: N4-001115

Title: The accepted priority in the call proceeding message for GSM and UMTS

Source: Sagem, Ericsson Vivien Perlick, Sagem

Discussion:

Decision: Revised to N4-001118

Document: N4-001118

Title: The accepted priority in the call proceeding message for GSM and UMTS

Source: Sagem, Ericsson

Presented: Vivien Perlick, Sagem

Discussion:

Title: CR 23.067 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Siemens: Items describers in figure 2 are only applicable in GSM

- Siemens: Under figure 2 only "For further study" should delete, nothing else.

Category will be F.

o A CR, which is supported by consensus in the meeting.

Also other editorial comments will be given to Elena by offline (Mr. Ian Park).

Decision: Revised in Tdoc N4-001085

Document: N4-001085

Title: CR 23.067 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Category F

o Essential correction

11.3.2.1 Changed text will removed and reference point will be added

Decision: Revised in Tdoc N4-001114

Document: N4-001093

Title: CR 3.67 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Revised in Tdoc N4-001113

Document: N4-001114

Title: CR 23.067 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Category F

Essential correction

11.3.2.1 Changed text will removed and reference point will be added

Decision: Agreed

Document: N4-001113

Title: CR 3.67 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Agreed

Document: N4-001094

Title: CR 23.067 on Correction of Pre-emption service (eMLPP)

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

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Decision: Agreed

Document: N4-001004

Title: CR 24.067 on eMLPP correction for GSM/UMTS use

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

- Editorial modifications will be made

Decision: Revised in Tdoc N4-001086

Document: N4-001086

Title: CR 24.067 on eMLPP correction for GSM/UMTS use

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Category will be F.

o A CR, which is supported by consensus in the meeting.

Decision: Agreed

6.9 AOB

6.9.1 Security

Document: N4-000971

Title: CR 29.060 – 156 on RAND Length

Source: Nokia Presented: None

Discussion: None

Decision: Withdrew

Document: N4-001006

Title: Correction of Security parameters length

Source: NTT, Fujitsu, NEC

Presented:

Discussion:

Category will changed F

Decision: Agreed

Document: N4-001015

Title: GTP-C Message Protection

Source: Motorola

Presented: Michael Young, Motorola

Discussion:

10.1.3 have to be deleted

- 10.1 lpsec will be removed from the header

- Ipsec is mandatory for vendors but optional for operators

Decision: Revised in Tdoc. N4-001059

Document: N4-001059

Title: GTP-C Message Protection

Source: Motorola

Presented: Michael Young, Motorola

Discussion:

Decision: Postponed till next meeting

Document: N4-001042

Title: Clarifications to the Security Mode usage, and error cases

Source: Nokia

Presented: Giorgi Gulbani, Nokia

Discussion:

Category F

o CR is supported by consensus in the CN4.

- Vodafone: Material doesn't belong to 29.060.

Vice Chairman (Teemu) proposed that Nokia will send a new CR directly to S2

- CN4 agrees to proposed textual modification

o Small editorial corrections will be made

o LS to S2 N4-001062

Additional text will be included to LS attachment N4-001063

Only KSI modification will be included to CR

Totally new CR will be published: 29.060-161 N4-001064

Decision: Withdraw

Document: N4-001064

Title: Clarifications to the Security Mode usage, and error cases

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

Category F

o CR is supported by consensus in the CN4.

Decision: Agreed

Document: N4-001062

Title: LS to S2 on Clarifications to the usage of CKSN and KSI for security type 0

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

- Document N4-001063 will be attached to LS

7 Rel4

7.1 TrFO/TFO Workshop

Document: N4-000954

Title: Reply LS, on Terminology of TrFO/TFO and other possible interworking scenarios.

Source: S2 Presented: None

Discussion:

Decision: Noted

Document: N4-001005

Title: LS response to "LS on Codec Requirements to UMTS UEs /

Mandatory Sub flow Combinations for SID and NO DATA frames for speech calls"

Source: S4

Presented: Alexander Vesely, Siemens

Discussion:

Decision: Noted

Document: N4-001025

Title: Stage 2 OoBTC – 3G TS 23153 V 2.2.0

Source: Editors

Presented: Phil Hodges, Phil

Discussion:

Editorial modification was made

- New version will be published 23.153 v.2.3.0

Decision: Revised in Tdoc N4-001083

Document: N4-001083

Title: Stage 2 OoBTC – 3G TS 23153 V 2.3.0

Source: Editors Presented: None

Discussion:

Decision: Revised in Tdoc N4-001106

Document: N4-001106

Title: Stage 2 OoBTC – 3G TS 23153 V 2.3.0

Source: Editors

Presented: Phil Hodges, Ericsson

Discussion:

- TS 23.153 v.2.3.0 will be submitted CN#10 for approval

7.2 Bearer Independent Architecture

7.2.1 Stage 2

Document: N4-001043

Title: Open Issues on the Bearer Independent Architecture Option

Source: France Telecom **Presented:** Francois Dronne, FT

Discussion:

Question 2:

- CN4 can't decide the protocol -> It depents the intrest of the companies. They
 can bring in the CR's and make a nomination.
- Question 3:
 - The Majority of CN4 believes that demands should not be documented in23.205. If France Telecom have a different point of view. It was supposed
- Question 4:
 - o Solution was already rejected

Decision: Noted

7.2.1.1 TS 23.205

Document: N4-001024

Title: TS 23.205 Version 0.2.0 editors version

Source: Editors

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

CN4 agrees: The document is based Stockholm output

- Some effects will be after Nortel Networks document N4-000963

Updated draft TS version will be made after the meeting N4-001104

The final version will be published 30.11.2000

Decision: Agreed

Document: N4-000963

Title: Bearer Independent CS Core Network – Stage 2 Proposed Updates

Source: Nortel Networks

Presented: Kevin Gorey, Nortel Network

Discussion:

4.2 agreed

- 5.1.2.1 agreed, text will be deleted

- 5.1.2 Will added reference point because it's already described in 23.002
- 5.2 New proposed text will be made by Kevin & Pekka
- 6.1.1 put on hold till other contributions are discussed
 - o RAB assignment
 - CN4 agrees: Media Gateway selection has to be made before RAB assignment.
 - o Inter-working function
 - Clarification of PLMN BC investigation are needed
 - Note in section accepted
 - o Table 16.1
 - Editor will check the modifications together with Pekka Larmala

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Decision: Agreed

Document: N4-001010

Title: Proposal for restructuring TS 23.205

Source: Siemens Presented: None

Discussion:

- None

Decision: Withdraw

Document: N4-000973

Title: Proposed improvements in Mobile Originating Speech/Data Call (sections 6.1 and 6.2)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

- OoBTR is optional feature and this specification we can handle it in 6.1 RAB assignment

- Vodafone: Where do we specify TrFO handling and non TrFO handling? 23.153 specification have to handle TrFO environment.

o Ericsson: Don't see any problem in supposed text in CR.

- RAB assignment text will handled by Ericsson, Vodafone and Nortel offline.

 Confirmation of bearer establishment: Vodafone nominations accepted and will be included to specification.

Text after figure 6.1 accepted

- 6.2 accepted already in Nortel's document

- 6.1.1

o In MGW selection: text will be added

Media Gateway will be selected before RAB assignment.

Decision: Agreed

Document: N4-000975

Title: Proposed improvements in Mobile Terminating Speech/Data Call (sections 6.3 and 6.4)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Initial addressing

Editorial modifications are made
 Some textual modifications/enhancements

Needs to be merged with 0963. All open issues addressed.

- Agreed text on MGW selection to be included

Decision: Agreed

Document: N4-000979

Title: Proposed improvements in Call Clearing (chapter 7)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

No modifications

Decision: Agreed

Document: N4-000980

Title: Proposed improvements in Handover (chapter 8)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Multicall issue

Extent lu to lu i/f resources

- Reference to the mobile call termination = basic mobile termination

- More specific on which paragraph is reflected

Siemens and Nortel comments were accepted and shall be included

Decision: revised in Tdoc N4-001103

Document: N4-001103

Title: Proposed improvements in Handover (chapter 8)

Source: Ericsson/Siemens

Presented: Alexander Vesely, Siemens

Discussion:

Some editorial modifications was made

Decision: Agreed

Document: N4-000987

Title: Proposed improvements to Interactions with other Services (chapter 13)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

- This contribution does not reflect the backward bearer setup scenarios.

- Continuity message is required for TrFO to notify that the bearer is established since the Codec and Bearer can be modified during the Codec negotiation in the succeeding

nodes. A comment of this effect is required.

Decision: Agreed

Document: N4-000991

Title: Proposed improvements to DTMF (section 14.4)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

- BICC supports the DTMF signalling. However the text shall relfect that the succeeding

MSC does not support the DTM at call level.

- For TrFO cases it shall support out-of-band DTMF

- Some editorial modifications are made.

Decision: Agreed

Document: N4-000992

Title: Proposed improvements on backward bearer release for OR (section 14.5)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Decision: Agreed

Document: N4-000993

Title: Proposed improvements to Messages/Procedures and their Contents (chapter 15)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

- A condition on the optional IE needs to be described clearly. Subsequent contributions

on this issue are invited.

Decision: Agreed

Document: N4-001026

Title: Proposed improvements to General (G)MSC-MGW Procedures (chapter 15)

Source: Ericsson

Presented: Alf Heidermark, Ericsson

Discussion:

- Textual clarifications are needed in section 15.4.1.

Decision: Agreed

7.2.1.2 Backward Bearer Establishment – MO

Document: N4-000964

Title: BICSCN – Mobile Originating backwards bearer establishment

Source: Nortel Networks

Presented: Mark Watson, Nortel Networks

Discussion:

- See N4-000974

Notify request accepted to be deleted

Decision: Agreed

Document: N4-000974

Title: Backward bearer set up in Mobile Originating Speech/Data Call

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

- Approved with together with N4-000964

o A new combined draft (N4-000964+N4-000974) will be made and be given to

editors

Decision: Agreed

7.2.1.3 Backward Bearer Establishment - MT

Document: N4-000965

Title: BICSCN – Mobile Terminating backwards bearer establishment

Source: Nortel Networks

Presented: Mark Watson, Nortel Networks

Discussion:

Flow diagram will be included.

Decision: Agreed

Document: N4-000976

Title: Backward bearer set up in Mobile Terminating Speech/Data Call

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Text distribution are agreed. Check will be done to replace word "can" with "may"

Agreed text on MGW selection to be included.

Decision: Agreed

7.2.1.4 Backward Bearer Establishment - HO

Document: N4-000966

Title: BICSCN – Inter-MSC SRNS relocation using backwards bearer establishment

Source: Nortel Networks

Presented: Mark Watson, Nortel Networks

Discussion:

The issues are included in N4-000980

- Agreed but contents are already reflected to N4-0000980

Decision: Agreed

7.2.1.5 Redirection

Document: N4-000967

Title: Examples of bearer redirection when call is in progress

Source: Nortel Networks

Presented: Mark Watson, Nortel Networks

Discussion:

- Principals of contributions agreed in TS 23.205

- Further contributions are invited. It was also noted that the virtual MGW is also an

optional capability and needs to be addressed as well.

Decision: Noted

7.2.1.6 Inter-System HO

Document: N4-000982

Title: Inter-system Handover

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Are there multiple MGW in handover?

Intra MSC inter MGW handover needs to be checked

- Both document will be included into the draft N4001008 & N4-000982

-

Decision: Agreed

Document: N4-001008

Title: Inter-system Handover

Source: Siemens

Presented: Alexander Vesely, Ericsson

Discussion:

Both document will be included into the draft N4001008 & N4-000982

o Editor's note will reflected to decision of 3GPP on the split of the A-interface

CN4 will be sent a LS to GERAN2 and SA2 on the status of splitted A interface

N4-001090

Decision: Agreed

Document: N4-001090

Title: LS on connecting a GERAN to a Rel4 CN node via A interface

Source: Siemens

Presented: Alexander Vesely, Siemens

Discussion:

LS will published by E-mail

o Was published 23.11.2000

Title: UMTS to GSM handover of data calls

Source: Ericsson Presented: None

Discussion: None

Decision: Withdrew

7.2.1.7 Data Services

Document: N4-000977
Title: FAX for UMTS
Source: Ericsson
Presented: None

Discussion:

- CR is covered by N4-000973 & N4-000974

Decision: Withdrew

Document: N4-000978

Title: Alternate speech/FAX for UMTS

Source: Ericsson Presented: None

Discussion:

Decision: Withdrew

7.2.1.8 GSM Services

Document: N4-000983

Title: Handling of GSM Services after Handover

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Decision: Agreed

Document: N4-000988

Title: Removal of forward bearer set up for Interactions with other Services (chapter 13)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Decision: Agreed

Document: N4-001009

Title: CH & CW scenarios

Source: Siemens

Presented: Alexander Vesely, Ericsson

Discussion:

- Call waiting needs to reflect forward and backward direction

Decision: Revised Tdoc N4-001096

Title: Proposed improvements to Interactions with other Services (chapter 13)

Source: Siemens

Presented: Alexander Vesely, Ericsson

Discussion:

Decision: Agreed

7.2.1.9 Recovery

Document: N4-000988

Title: Removal of forward bearer set up for Interactions with other Services (chapter 13)

Source: Ericsson

Presented: Pekka Larmala, Ericsson

Discussion:

Decision: Agreed

7.2.1.10 Charging

Document: N4-000986
Title: Charging
Source: Ericsson
Presented: None

Discussion: None

Decision: Withdrew

Multicall

Document: N4-000989

Title: Multicall (section 13.15)

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Approved

7.2.2 Stage 3

Document: N4-000995

Title: Iu User Plane package (section 4.7.4)

Source: Ericsson Presented: None

Discussion: None

Decision: Withdrew

Document: N4-001020

Title: Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3

Source: Editor's

Presented: Ian Park, Vodafone

Discussion:

- Two modification was be made.

o SCTP

Section 4.5, wording on signalling transport

Decision: Noted

Document: N4-001021

Title: Proposed changes to the structure of TS 29.232

Source: Editor's

Presented: Ian Park, Vodafone

Discussion:

- Subsection will be reorganised

Decision: Agreed

Document: N4-001105

Title: Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3

Source: Editor's Presented: None

Discussion:

Will be published 24.11. 17:00 CET as version 0.3.0

TS 29.232 v.0.3.0 will be submitted CN#10

Decision: Agreed

Document: N4-000996

Title: Circuit Switched package (section 4.7.5)

Source: Ericsson

Presented: Alf Heidermark, Ericsson

Discussion:

- When CN4 have agreed to package to spesicifation

- Code point required from IANA. Editors will take care of this and will report back to CN4

Decision: Agreed

Document: N4-000997

Title: TFO package (section 4.7.6)

Source: Ericsson

Presented: Phil Hodges, Ericsson

Discussion:

All the package name will start 3gpp

Phil Hodges, Ericsson will make a new draft for editor's N4-001097

Decision: Agreed

Document: N4-001097

Title: TFO package (section 4.7.6)

Source: Ericsson

Presented: Phil Hodges, Ericsson

Discussion:

Decision: Agreed

Document: N4-000998

Title: Call independent H.248 Procedures (section 4.7.7)

Source: Ericsson

Presented: Alf Heidermark, Ericsson

Discussion:

- Table 4.6 is removed to section 4.7

o Text immediately after table is removed

Section numbers have to deleteModifications also in referencies

Decision: Agreed

Document: N4-000999

Title: Call Related H.248 Procedures (section 4.7.8)

Source: Ericsson

Presented: Alf Heidermark, Ericsson

Discussion:

- Section names and numbering shall be changed

Modifications was made

Decision: Agreed

Document: N4-001000

Title: Formats and Codes – Signalling Objects

Source: Ericsson

Presented: Alf Heidermark, Ericsson

Discussion:

Editorial modifications was made

Decision: Agreed

Document: N4-001001

Title: Framing of CS User Plane in IP CN

Source: Ericsson Presented: None

Discussion: None

Decision: Withdrew

Document: N4-001028

Title: LS Proposed enhancements to Mc specification

Source: 3GPP TrFO/TFO Harmonisation Workshop

Presented: Phil Hodges, Ericsson

Discussion:

-

Decision: Noted

7.3 Core Network Security

Document: N4-001029

Title: Security for MAP over IP

Source: S3

Presented: Yun-Chao Hu, Chairman

Discussion:

Vodafone: We should inform S3 that CN4 recognize the situation.

- LS to S3; N4-001082

Document: N4-001082

Title: LS on Security for MAP over IP

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

Decision: Noted

Document: N4-001030

Title: Protection of GTP Messages using IPSec

Source: S3 Presented: None

Discussion:

Already handled in Stockholm ad hoc

Decision: Noted

Document: N4-001032

Title: Liaison statement to TSG-N WG4 on Security Policy for MAP Security

Source: S3 **Presented:** None

Discussion: None

Decision: Noted

Document: N4-001033

Title: GTP signalling security

Source: S3 **Presented:** None

Discussion: None

Decision: Noted

Document: N4-001037

Title: LS on Positive Authentication Reporting

Source: CN Presented: None

Discussion:

Already handled in Stockholm ad hoc

Decision: Noted

7.4 Camel Phase 4

Document: N4-000957

Title: Introduction of CAMEL support for OR

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

Editorial modification will be made

Decision: Revised in Tdoc N4-001109

Document: N4-001109

Title: Introduction of CAMEL support for OR

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

Decision: Agreed

Document: N4-001019

Title: Introduction of CAMEL support for OR

Source: N2

Presented: Teemu Makinen, Nokia

Discussion:

Siemens: To change the naming from sms-csi to mo-sms-csi will cause confusion

- CR will be sent in CN4 mailing list for E-mail discuss

Decision: Postponed till January meeting

7.5 AOB

7.5.1 Supplementary services

Document: N4-000944

Title: Tidying up of Process Subs_FSM and inter-process signals.

Source: Vodafone

Presented: Ian Park, Vodafone

Discussion:

Decision: Agreed

7.5.2 ASCI

Document: N4-000933

Title: CR 23.067 – 003 on Pre-emption by a higher priority call of the talker of a group call

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

- Stage 1 CR have to be submitted to SA1.

Decision: postponed till next meeting

Document: N4-000934

Title: CR 23.067 – 004 on VGCS, VBS and eMLPP are not specific for this document. Those

abbreviations are already described in 21.905.

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

- Vodafone supposed the following modification to text:

o This fact is not a reason for a mobile station to reject a call for which setup

message was reseived

Decision: Agreed

Document: N4-000935

Title: CR 23.067 – 005 on To describe the MS solution when priority in paging and setup are not

the same

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

- The last modification will be removed

Editorial modification have to be made

Decision: Revised in Tdoc N4-001107

Document: N4-001107

Title: CR 23.067 – 005 on To describe the MS solution when priority in paging and setup are not

the same

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

Decision: Agreed

Document: N4-000936

Title: Automatic answering

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

Small textual modifications was made

- Category C, functional modification

Decision: Revised in Tdoc N4-001108

Document: N4-001108

Title: Automatic answering

Source: Sagem

Presented: Vivien Perlick, Sagem

Discussion:

Decision: Agreed

8 GSM Maitenance

8.1 Supplementary Services

Document: N4-001002

Title: CR 03.67 on removal of wrong description

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Vodafone: R96&R97 CR's are needed

Category F

A CR have be accepted by consensus of the meeting

Separate out the material which is mirror R97

Mirror

Differences between GSM access and UTMS access have to be check out

New CR need for UMTS part; N4-001094

Decision: Revised in Tdoc N4-001093

Document: N4-001093

Title: Correction of Pre-emption service (eMLPP)

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Category F

o A CR have be accepted by consensus of the meeting

- 11.3.2.1 have to be made corrections

Decision: Revised in Tdoc N4-001113

Document: N4-001113

Title: Correction of Pre-emption service (eMLPP)

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Category F

A CR have be accepted by consensus of the meeting

Decision: Agreed

Document: N4-001085

Title: CR 23.067 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Revised in Tdoc N4-001114

Document: N4-001114

Title: CR 23.067 on correction of Pre-emption service

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Agreed

Document: N4-001094

Title: CR 23.067 on Correction of Pre-emption service (eMLPP)

Source: Ericsson

Presented: Elena Garcia-Mendive, Ericsson

Discussion:

Decision: Agreed

8.2 GPRS

Document: N4-001013

Title: CR 09.60 – A099 on Ignore last octet in MS Network Capability

Source: Ericsson Presented: None

Discussion: None

Decision: Withdrew

Document: N4-001014

Title: CR 09.60 – A098 on Ignore last octet in MS Network Capability

Source: Ericsson Presented: None

Discussion: None

Decision: Withdrew

8.3 Location Services

Document: N4-000929

Title: CR 09.02 – A312 on Correction to LCS application context

Source: Nokia

Presented: Ahti Muhonen, Nokia

Discussion:

- Nokia will provide the document again

Decision: Postponed till Beijing meeting in January

Document: N4-000930

Title: CR 09.02 – A312 on Correction to LCS application context

Source: Nokia Presented: None

Discussion: None

Decision: Postponed till Beijing meeting in January

Document: N4-000931

Title: CR 09.02 – A312 on Correction to LCS application context

Source: Nokia

Presented: None

Discussion: None

Decision: Postponed till Beijing meeting in January

8.4 USSD

Document: N4-000909

Title: CR 09.02 – A309 Rev 2 on Corrections and clarifications for USSD procedures on the

HLR - gsmSCF interface

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion: None.

Decision: Agreed

Document: N4-000910

Title: CR 09.02 – A308 Rev 2 on Corrections and clarifications for USSD procedures on the

HLR - gsmSCF interface

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion: None.

Decision: Agreed without presentation

Document: N4-000911

Title: CR 29.002 – 167 Rev3 on Corrections and clarifications for USSD procedures on the

HLR - gsmSCF interface

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion: None.

Decision: Agreed without presentation

Document: N4-000912

Title: CR 29.002 – 167 Rev3 on Corrections and clarifications for USSD procedures on the

HLR - gsmSCF interface

Source: Siemens

Presented: Ulrich Wiehe, Siemens

Discussion: None.

Decision: Agreed without presentation

9 Output of CN4# ad hoc Meeting

9.1 TS/TRs

TDoc #	Tdoc Title
N4-001104	TS 23.205 v. 1.0.0 Bearer Independent CS Core Network; Stage 2
N4-001105	TS 29.232 v. 1.0.0 Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3
N4-001106	TS 23.153 v. 2.3.0 Out of band Transcoder Control – Stage 2

9.2 WIs

TDoc #	Tdoc Title
N4-001065	IP Multimedia CN Subsystem: Cx Technical Recommendations

9.3 Liaison Statements

The following Liaison Statements were agreed to be sent by N4 #05 meeting:

TDOC	Subject	То	Сс	Attachment	Sent
N4-00xxxx					
N4-001050	LS on GGSN address selection mechanism in SGSN in case of network requested PDP context activation procedure	S2			14.11.2000
N4-001066	LS on the Work Item "Cx Interface specification"	S2		N4-001065	20.11.2000
N4-001045	LS on GERAN impacts on overall system architecture	S2	GERAN, CN1, CN2		20.11.2000
N4-001080	LS on Operator Determined Barring of Packet Oriented	S1	S2		15.11.2000
N4-001062	LS on Clarifications to the Security Mode usage, and error cases	S2	S3	N4-001063	20.11.2000
N4-001077	LS providing comments to LS from CN3 on intersystem handover problem	N1	N3		20.11.2000
N4-001082	LS on Security for MAP over IP	S3			20.11.2000
N4-001119	LS on Size of RANAP messages over the MAP E-interface	R3	N1, S2	N4-001079	20.11.2000
N4-001120	LS on R99 Lossless Relocation for UMTS to TSG_CN	CN	S2, R3	N4-000943, N4-000959, N4- 001022, N4-001044, N4-001054	20.11.2000
N4-001121	Answer to RAN 3 LS on Real Time SRNS Relocation for PS Domain RABs	R3	S2	N4-000943, N4-001022	20.11.2000
N4-001090	LS to GERAN2 and SA2 on the status of splitted A interface	S2, GERAN		N4-000982, N4-001008	30.11.2000

9.4 Change Requests

None.

TDoc #	Spec	CR#	Rel	Tdoc Title	CAT	Version	WI
N4-001060	09.02	A313	R97	Clarification in SupportedCamelPhases	F	6.9.0	Camel Phase 2
N4-001061	09.02	A314	R98	Clarification in SupportedCamelPhases	Α	7.6.0	Camel Phase 2

TDoc#	Spec	CR#	Rel	Tdoc Title	CAT	Version	WI
N4-001088	29.002	210	R99	Introduction of GGSN address	F	3.6.0	Camel Phase 3
N4-001088	29.002	211	Rel-4	Introduction of GGSN address	A	4.1.0	Camel Phase 3
N4-000907	29.002	190	R99	Corrections of ISD data structure for Camel Phase 3	F	3.6.0	Camel Phase 3
N4-000908	29.002	191	Rel-4	Corrections of ISD data structure for Camel Phase 3	Α	4.1.0	Camel Phase 3
N4-001047	29.002	213	R99	ATSI correction	F	3.6.0	Camel Phase 3
N4-001048	29.002	214	Rel-4	ATSI correction	A	4.1.0	Camel Phase 3
N4-001006	29.060	157	R99	Correction of Security parameters lenght	F	3.6.0	Security
N4-001064	29.060	161	R99	Clarifications to the usage of CKSN ans KSI for security type	F	3.6.0	Security
N4-001052	29.060	154r1	R99	Correction of Security parameters lenght	F	3.6.0	TEI
N4-001086	24.067	001r1	R99	eMLPP correction for GSM/UMTS use	F	3.0.0	ASCI
N4-001111	23.067	002r2	R99	The accepted priority in the call proceeding message	F	3.10	ASCI
N4-001118	24.067	002r3	R99	The accepted priority in the call proceeding message for GSM and UMTS	F	3.0.0	ASCI
N4-001094	23.067	008r1	R99	Correction of Pre-emption service	F	3.1.0	ASCI
N4-001081	23.082	009r1	R99	Correction of message between VLR and HLR	F	3.4.0	CF enhancements
N4-001012	29.060	159	R99	MS Network Capability in MM Context	F	3.6.0	GPRS
N4-001053	29.060	136r2	R99	Compatibility GTPv0/GTPv1 in case of SGSN change	F	3.6.0	GPRS
N4-001055	29.060	153r2	R99	Selecting GGSN IP address	F	3.6.0	GPRS
N4-001051	29.060	151r1	R99	Correction of wrong entry in information table	F	3.6.0	GPRS
N4-000942	29.060	150	R99	Correction to the PDU Notification Request message	F	3.6.0	GTP Enhancements
N4-000946	29.060	152	R99	Moving of Annex A to 3G TS 23.003	F	3.6.0	GTP Enhancements
N4-000947	23.003	024	R99	Moving informative Annex A from 3G TS 29.060 and making it normative	F	3.6.0	GTP Enhancements
N4-000941	29.060	149	R99	Clarification on the use of Teardown indicator	F	3.6.0	GTP Enhancements
N4-001079	29.002	209	R99	Transport of long RANAP messages on MAP- E interface	F	3.6.0	Handover
N4-001095	29.002	212	Rel-4	Transport of long RANAP messages on MAP- E interface	Α	4.1.0	Handover
N4-000915	29.010	800	R99	GSM to 3G handover: location Reporting in 3G_MSC-B	F	3.3.0	Handover
N4-000916	29.010	009	R99	GSM to 3G handover: Chosen IEs in Handover Request Ack	F	3.3.0	Handover
N4-000917	29.010	010	R99	GSM to 3G handover: MAP parameter Target Cell ID	F	3.3.0	Handover
N4-000920	29.002	197	R99	ASN.1 description of target Cell ID	F	3.6.0	Handover

TDoc#	Spec	CR#	Rel	Tdoc Title	CAT	Version	WI
N4-000921	29.002	198	Rel-4	ASN.1 description of target Cell ID	А	4.1.0	Handover
N4-001070	29.002	195r1	R99	GSM to 3G Handover: MAP parameter Target Cell ID	F	3.6.0	Handover
N4-001071	29.002	196r1	Rel-4	GSM to 3G Handover: MAP parameter Target Cell ID	А	4.1.0	Handover
N4-001072	29.002	199r1	R99	IMSI in MAP_PREPARE_HANDOVER	F	3.6.0	Handover
N4-001073	29.002	200r1	Rel-4	IMSI in MAP_PREPARE_HANDOVER	А	4.1.0	Handover
N4-001074	29.010	011r1	R99	GSM/UMTS Interworking: Mapping of cause codes	F	3.3.0	Handover
N4-001075	29.002	207r1	R99	Alignment of the Target RNC-ID	F	3.6.0	Handover
N4-001076	29.002	207r1	Rel-4	Alignment of the Target RNC-ID	А	4.1.0	Handover
N4-001113	03.67	A006r2	R98	Correction of Pre-emption service (eMLPP)	F	7.1.0	Supplementary Services
N4-001114	23.067	007r2	R99	Correction of Pre-emption service (eMLPP)	А	3.1.0	Supplementary Services
N4-000909	09.02	A309r2	R97	Corrections and clarifications for USSD procedures on the HLR – gsmSCF interface	F	6.8.0	USSD
N4-000910	09.02	A308r2	R98	Corrections and clarifications for USSD procedures on the HLR – gsmSCF interface	А	7.5.0	USSD
N4-000911	09.02	167r3	R99	Corrections and clarifications for USSD procedures on the HLR – gsmSCF interface	А	3.5.1	USSD
N4-000912	09.02	166r3	Rel-4	Corrections and clarifications for USSD procedures on the HLR – gsmSCF interface	А	4.0.1	USSD
N4-001068	29.002	192r2	R99	USSD corrections for Follow Me	F	3.6.0	USSD
N4-001069	29.002	193r2	Rel-4	USSD corrections for Follow Me	А	4.1.0	USSD
N4-001109	23.079	016r2	Rel-4	CAMEL support for OR	В	3.6.0	Camel Phase 4
N4-000934	23.067	003	Rel-4	Correction of abbreviations	D	3.1.0	ASCI
N4-001107	23.067	005r1	Rel-4	MS strategy in case of discrepancy of priority in MT	С	3.1.0	ASCI
N4-001008	23.067	006r1	Rel-4	Automatic answering	С	3.1.0	ASCI
N4-000944	23.018	064	Rel-4	Tidying up of Process Subs_FSM and inter- process signals	С	4.0.0	TEI

10 Close of meeting

The CN4 chairman closed the meeting on Thursday 17st October at 15:30.

Annex A: Participants

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
	Aganda	NA Chairman	Approved
N4-000901 N4-000902	Agenda Tdoc allocation to agenda items	N4 Chairman N4 Chairman	Approved
N4-000902 N4-000903	Previous meeting report CN4#04 Seattle	MCC	Approved
N4-000903 N4-000904	Previous meeting report CN4#04 Seattle Previous meeting report CN4 ad hoc in Stockholm	MCC	Approved Noted
N4-000904 N4-000905	TrFO workshop #04 meeting report	MCC	Approved
N4-000905	Previous meeting report CN#09 Hawaii	MCC	Noted
N4-000906 N4-000907	Corrections of ISD data structure for CAMEL phase 3	Siemens	Agreed
N4-000907	Corrections of ISD data structure for CAMEL phase 3	Siemens	•
N4-000908	Corrections of ISD data structure for CAMEL phase s Corrections and clarifications for USSD procedures on the HLR - gsmSCF interface	Siemens	Agreed Agreed
N4-000909	Corrections and clarifications for USSD procedures on the HLR - gsmSCF interface	Siemens	Agreed
N4-000910 N4-000911	Corrections and clarifications for USSD procedures on the HLR - gsmSCF interface	Siemens	Agreed
N4-000911	Corrections and clarifications for USSD procedures on the HLR - gsmSCF interface	Siemens	Agreed
N4-000912	USSD corrections for Follow Me	Siemens	Revised in Tdoc
N4-000913	USSD corrections for Follow Me		N4-001068
		Siemens	Revised in Tdoc N4-001069
N4-000915	GSM to 3G Handover: Location Reporting in 3G_MSC-B	Ericsson L.M.	Agreed
N4-000916	GSM to 3G Handover: Chosen IEs in Handover Request Ack	Ericsson L.M.	Agreed
N4-000917	GSM to 3G Handover: MAP parameter Target Cell ID	Ericsson L.M.	Agreed
N4-000918	GSM to 3G Handover: MAP parameter Target Cell ID	Ericsson L.M.	Revised in tdoc N4- 001070
N4-000919	GSM to 3G Handover: MAP parameter Target Cell ID	Ericsson L.M.	Revised in tdoc N4- 001071
N4-000920	ASN.1 description of TargetCellId in MAP	Ericsson L.M.	Agreed
N4-000921	ASN.1 description of TargetCellId in MAP	Ericsson L.M.	Agreed
N4-000922	IMSI in MAP PREPARE_HANDOVER	Ericsson L.M.	Revised in tdoc N4- 001072
N4-000923	IMSI in MAP PREPARE_HANDOVER	Ericsson L.M.	Revised in tdoc N4- 001073
N4-000924	GSM/UMTS Interworking: Mapping of cause codes	Ericsson L.M.	Revised in tdoc N4- 001074
N4-000925	Addition of Charging Type Support indicator to the GPRS Location Update	Nokia	Withdrew
N4-000926	Addition of Charging Type Support indicator to the GPRS Location Update	Nokia	Withdrew
N4-000927	Indication of Intra-MSC Intersystem handover from MSC-B to MSC-A	Nokia	Withdrew
N4-000928	Indication of Intra-MSC Intersystem handover from MSC-B to MSC-A	Nokia	Withdrew
N4-000929	Correction to LCS application context	Nokia	postponed till January meeting
N4-000930	Correction to LCS application context	Nokia	postponed till January meeting
N4-000931	Correction to LCS application context	Nokia	postponed till January meeting
N4-000932	Recommandation to include priority in the call proceeding message if the network is	SAGEM SA	Revised in Tdoc
N4-000933	supporting eMLPP. Pre-emption by a higher priority call of the talker of a group call	SAGEM SA	N4-001084 Postponed
			,
N4-000934	VGCS, VBS and eMLPP are not specific for this document. Those abbreviations are already described in 21.905.	SAGEM SA	Agreed
N4-000935	To describe the MS solution when priority in paging and setup are not the same	SAGEM SA	Revised in Tdoc N4-001107
N4-000936	for automatic answering with same priority: Rewording of the automatic answering to avoid any misunderstanding, and to underline that automatic answering applies in idle mode or in case of called party preemption	SAGEM SA	Revised in Tdoc N4-001108
N4-000937	Alignment of the Target RNC-ID	ERICSSON	Revised to N4- 001075
N4-000938	Alignment of the Target RNC-ID	ERICSSON	Revised to N4- 001076
N4-000939	Proposal to solve intersystem handover	Alcatel	Noted
N4-000940	Size of RANAP messages over MAP-E	Alcatel	Noted
N4-000941	Clarification on the use of Teardown Indicator	Fujitsu	Agreed
N4-000942	Correction to the PDU Notification Request message	NEC, Fujitsu	Agreed
N4-000943	Proposed LS back to R3 on R99 Lossless Relocation for UMTS	NEC	Withdrew
N4-000944	Tidying up of Process Subs_FSM and inter-process signals.	Vodafone Group PLC	Agreed
N4-000945	Editorial corrections	NTT Software	Revised in tdoc N4- 001051
N4-000946	Moving informative Annex A from 3G TS 29.060 and making it normative.	Nokia	Agreed
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N4-000947	Moving of Annex A to 3G TS 23.003.	Nokia	Agreed
N4-000948	Selecting GGSN IP address	Nokia	Revised to N4-
			000972
N4-000949	Introduction of CAMEL support for OR	Vodafone	Revised to N4- 000957
N4-000950	Work Item description: "Subscriber Data Management in the IP Multimedia CN Subsystem"	Ericsson L.M.	Noted
N4-000951	proposed response to Liaison Statement on IPT Basic Call Handling	S2	Noted
N4-000952	LS on GERAN impacts on overall system architecture	S2	Noted
N4-000953	Response LS on RAB Assignment QoS Negotiation	S2	Noted
N4-000954	Reply LS, on Terminology of TrFO/TFO and other possible interworking scenarios.	S2	Noted
N4-000955	Intersystem handover problem	CN3	Noted
N4-000956	LS Regarding WI for "Transcoder At The Edge"	3GPP TrFO/TFO Harmonisation Workshop	Noted
N4-000957	Introduction of CAMEL support for OR	Vodafone	Revised to Tdoc N4-001109
N4-000958	LS on Size of RANAP messages over MAP-E	R3	Revised in Tdoc N4-001031
N4-000959	Proposed LS to N4 and S2 on R99 Lossless Relocation for UMTS	R3	Noted
N4-000960	Real Time SRNS Relocation for PS Domain RABs	R3	Noted
N4-000961	LS reply to CN1 on Supported Codec Lists in 26.103	S4	Noted
N4-000962	Removal of 'Version not Supported' for GTP-U	Nortel Networks	Revised Tdoc N4-001052
N4-000963	Bearer Independent CS Core Network – Stage 2 Proposed Updates	Nortel Networks	Agreed
N4-000964	BICSCN – Mobile Originating backwards bearer establishment	Nortel Networks	Agreed
N4-000965	BICSCN – Mobile Terminating backwards bearer establishment	Nortel Networks	Agreed
N4-000966	BICSCN – Inter-MSC SRNS relocation using backwards bearer establishment	Nortel Networks	Agreed
N4-000967	Examples of bearer redirection when call is in progress	Nortel Networks	Noted
N4-000968	IP Multimedia CN Subsystem: Cx Technical Recommendations	Nortel Networks	Noted
N4-000969	3GPP UMTS Release 5 HSS-to-CSCF Interactions	Nortel Networks	Noted
N4-000970	Adding Uplink TEID for Data I and user plane GGSN address to PDP Context IE	Nokia	Revised in Tdoc N4-001022
N4-000971	RAND Length	Nokia	Withdrew
N4-000972	Selecting GGSN IP Address	Nokia, Lucent	Revised in Tdoc N4-001055
N4-000973	Proposed improvements in Mobile Originating Speech/Data Call (sections 6.1 and 6.2)	Ericsson L.M.	Agreed
N4-000974	Backward bearer set up in Mobile Originating Speech/Data Call	Ericsson L.M.	Agreed
N4-000975	Proposed improvements in Mobile Terminating Speech/Data Call (sections 6.3 and 6.4)	Ericsson L.M.	Agreed
N4-000976	Backward bearer set up in Mobile Terminating Speech/Data Call	Ericsson L.M.	Agreed
N4-000977	FAX for UMTS	Ericsson L.M.	Withdrew
N4-000978	Alternate speech/FAX for UMTS	Ericsson L.M.	Withdrew
N4-000979	Proposed improvements in Call Clearing (chapter 7)	Ericsson L.M.	Agreed
N4-000980	Proposed improvements in Handover (chapter 8)	Ericsson L.M.	Revised in Tdoc N4-001103
N4-000981	Backward bearer set up in Handover	Ericsson L.M.	Withdrew
N4-000982	Inter-system Handover	Ericsson L.M.	Agreed
N4-000983	Handling of GSM Services after Handover	Ericsson L.M.	Agreed
N4-000984	Proposed substitution of 'Recovery' (chapter 10) by 'General (G)MSC-MGW Procedures' (chapter 15)	Ericsson L.M.	Agreed
N4-000985	Proposed improvements to General (G)MSC-MGW Procedures (chapter 15)	Ericsson L.M.	Revised in Tdoc N4-001026
N4-000986	Charging	Ericsson L.M.	Withdrew
N4-000987	Proposed improvements to Interactions with other Services (chapter 13)	Ericsson L.M.	Agreed
N4-000988	Removal of forward bearer set up for Interactions with other Services (chapter 13)	Ericsson L.M.	Agreed
N4-000989	Multicall (section 13.15)	Ericsson L.M.	Agreed
N4-000990	IST (section 14.2)	Ericsson L.M.	Agreed
N4-000991	Proposed improvements to DTMF (section 14.4)	Ericsson L.M.	Agreed
N4-000992	Proposed improvements on backward bearer release for OR (section 14.5)	Ericsson L.M.	Agreed
N4-000993	Proposed improvements to Messages/Procedures and their Contents (chapter 15)	Ericsson L.M.	Agreed
N4-000994	Tunnelling	Ericsson L.M.	Withdrew
	lu User Plane package (section 4.7.4)	Ericsson L.M.	Wirhdrew
N4-000995		Ericsson L.M.	Agreed
N4-000995	Circuit Switched package (section 4.7.5)	ETICSSOTI L.IVI.	<u> </u>
N4-000995 N4-000996	TFO package (section 4.7.6)	Ericsson L.M.	Agreed
N4-000995 N4-000996 N4-000997	· ·		
N4-000995 N4-000996 N4-000997	TFO package (section 4.7.6)	Ericsson L.M.	Agreed
N4-000995 N4-000996 N4-000997 N4-000998	TFO package (section 4.7.6) Call independent H.248 Procedures (section 4.7.7)	Ericsson L.M. Ericsson L.M.	Agreed Agreed
N4-000995 N4-000996 N4-000997 N4-000998 N4-000999	TFO package (section 4.7.6) Call independent H.248 Procedures (section 4.7.7) Call Related H.248 Procedures (section 4.7.8)	Ericsson L.M. Ericsson L.M. Ericsson L.M.	Agreed Agreed Agreed

			N4-001093
N4-001003	CR 23.067 on correction of Pre-emption service	Ericsson	Revised in Tdoc N4-001085
N4-001004	CR 24.067 on eMLPP correction for GSM/UMTS use	Ericsson	Revised in Tdoc
N4-001005	LS response to "LS on Codec Requirements to UMTS UEs /	S4	N4-001086 Noted
N4-001006	Mandatory Subflow Combinations for SID and NO_DATA frames for speech calls" Correction of Security parameters length	NTT Software,	Agreed
N4-001007	Clarifications to the Security Mode usage, and error cases	Fujitsu, NEC Nokia	Revised in Tdoc
N4-001008	Intersystem HO	Siemens	N4-001042 Agreed
N4-001009	CH & CW scenarios	Siemens	Revised in Tdoc N4-001096
N4-001010	proposal for restructuring TS 23.205	Siemens	withdrew
N4-001011	Compatibility GTPv0/GTPv1 in case of SGSN change	Siemens	Revised in Tdoc N4-001053
N4-001012	MS Network Capability in MM context	Siemens	Agreed
N4-001013	Ignore last octet in MS Network Capability	Motorola	Withdrew
N4-001014	Ignore last octet in MS Network Capability	Motorola	Withdrew
N4-001015	GTP-C Message Protection	Motorola	Revised in Tdoc N4-001059
N4-001016	Correction to Annex A.	Vodafone	Withdrew
N4-001017	UMTS to GSM handover of data calls	Ericsson	Withdrew
N4-001018	Correction of message between VLR and HLR.	Vodafone	Revised in Tdoc N4-001081
N4-001019	Introduction of MT SMS CAMEL4 to MAP	N2	Postponed
N4-001020	Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3	Editors (CSELT/ Vodafone)	Noted
N4-001021	Proposed changes to the structure of TS 29.232	Editors (CSELT/ Vodafone)	Agreed
N4-001022	Adding Uplink TEID for Data I and user plane GGSN address to PDP Context IE	Nokia, Alcatel	Withdrew
N4-001023	ODB works for PS domain	NEC	Noted
N4-001024	TS 23.205 Version 0.2.0 editors version	Editors	Noted
N4-001025	TS 23.153 Version 2.2.0	Editors	Revised in Tdoc N4-001083
N4-001026	Proposed improvements to General (G)MSC-MGW Procedures (chapter 15)	Ericsson L.M.	Agreed
N4-001027	TrFO workshop #05 meeting report	MCC	Noted
N4-001028	LS Proposed enhancements to Mc specification	TrFO harmonisation workshop	Noted
N4-001029	Security for MAP over IP	S3	Noted
N4-001030	Protection of GTP Messages using IPSec	S3	Noted
N4-001031	LS on Size of RANAP messages over MAP-E	R3	Noted
N4-001032	Liaison statement to TSG-N WG4 on Security Policy for MAP Security	S3	Noted
N4-001033	GTP signalling security	S3	Noted
N4-001034	Response to LS on Support of additional GPRS ciphering algorithms	N1	Noted
N4-001035	Response to "LS on RAB Assignment QoS Negotiation" from RAN 3	N1	Noted
N4-001036	Liaison statement on the introduction of GEA2.	N1	Noted
N4-001037	LS on Positive Authentication Reporting	CN	Noted
N4-001038	Response to liaison statement on support of AMR via lu-ps in GERAN	R3	Noted
N4-001039	LS to S2 on use of IP for security key distribution	S3	Noted
N4-001040	Draft LS reply to CN1 on codec types for different access technologies	S4	Duplicated from 0961
N4-001041	Draft LS response to "LS on Codec Requirements to UMTS UEs / Mandatory Subflow Combinations for SID and NO_DATA frames for speech calls"	S4	Duplicated from 1005
N4-001042	Clarifications to the Security Mode usage, and error cases	Nokia	Revised in Tdoc N4-001063
N4-001043	Open issues on the Bearer Independent Architecture Option	France Telecom	Noted
N4-001044	Handling of GTP-U packets in the UL direction during relocation	Nortel Networks	Noted
N4-001045	LS to LS on GERAN impacts on overall system architecture	N4	Agreed
N4-001046	Make calls for IPRs	CN	Noted
N4-001047	ATSI correction (R99)	Siemens	Agreed
N4-001048	Request more than one SS data and/or CSI in one ATSI request (R4)	Siemens	Agreed
N4-001049	Work Item Description: "IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface"	CN4	Revised in Tdoc N4-001065
N4-001050	LS on GGSN address selection mechanism in SGSN in case of network requested PDP context activation procedure	N4	Agreed
N4-001051	Correction of wrong entry in information element tablevalue	NTT Software	Agreed

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N4-001052	Removal of 'Version not Supported' for GTP-U	Nortel Networks	Agreed
N4-001053	Compatibility GTPv0/GTPv1 in case of SGSN change	Siemens	Agreed
N4-001054	Giorgio's comments about N4-001044	Nokia	Noted
N4-001055	Selecting GGSN IP Address	Nokia, Lucent	Agreed
N4-001056	LS on R99 Lossless Relocation for UMTS to TSG_CN	N4	Revised in Tdoc N4-001120
N4-001057	LS to R3 Answer to RAN 3 LS on Real Time SRNS Relocation for PS Domain	N4	Revised in Tdoc N4-001121
N4-001058	LS on the Work Item "Cx Interface specification"	N4	Revised Tdoc N4- 001066
N4-001059	GTP-C Message Protection	Motorola	Postponed
N4-001060	Clarification in supported Camel Phases	Vodafone	Agreed
N4-001061	Clarification in supported Camel Phases	Vodafone	Agreed
N4-001062	LS on Clarifications to the Security Mode usage, and error cases	N4	Agreed
N4-001063	Annex to LS N4-001063	Nokia	Noted
N4-001064		Nokia	Agreed
N4-001065	Work Item Description: "IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface"	CN4	Agreed
N4-001066	LS on the Work Item "Cx Interface specification"	N4	Agreed
N4-001067	Handling of sequence numbers for reliable transmission of control plane messages	Lucent	Noted
N4-001068	USSD corrections for Follow Me	Siemens	Agreed
N4-001069	USSD corrections for Follow Me	Siemens	Agreed
N4-001070	GSM to 3G Handover: MAP parameter Target Cell ID	Ericsson L.M.	Agreed
N4-001071	GSM to 3G Handover: MAP parameter Target Cell ID	Ericsson L.M.	Agreed
N4-001071	IMSI in MAP PREPARE_HANDOVER	Ericsson L.M.	Agreed
N4-001073	IMSI in MAP PREPARE_HANDOVER	Ericsson L.M.	Agreed
N4-001074	GSM/UMTS Interworking: Mapping of cause codes	Ericsson L.M.	Agreed
N4-001075	Alignment of the Target RNC-ID	ERICSSON	Agreed
N4-001075	Alignment of the Target RNC-ID	ERICSSON	Agreed
N4-001077	LS providing comments to LS from CN3 on intersystem handover problem	N4	Agreed
N4-001077	LS on Size of RANAP messages over the MAP E-interface	N4	Revised in Tdoc
	-		N4-001119
N4-001079	CR Jean-Alain	Alcatel	Agreed
N4-001080	LS on Operator Determined Barring of Packet Oriented	N4	Agreed
N4-001081	Correction of message between VLR and HLR.	Vodafone	Agreed
N4-001082 N4-001083	LS on Security for MAP over IP TS 23.153 Version 2.3.0	N4 Editors	Agreed Revised in Tdoc
N4-001084	The accepted priority in the call proceeding message	SAGEM SA	N4-001106 Revised in Tdoc
N4-001085	CR 23.067 on correction of Pre-emption service	Ericsson	N4-1111 Revised in Tdoc
N4-001086	CR 24.067 on eMLPP correction for GSM/UMTS use	Ericsson	N4-1114 Agreed
	The accepted priority in the call proceeding message for GSM and UMTS	Sagem, Ericsson	Revised in Tdoc
			N4-1111
N4-001088	Indroduction of GGSN address	T-Mobil	Agreed
N4-001089	Indroduction of GGSN address	T-Mobil	Agreed
N4-001090	LS to GERAN2 and SA2 on the status of splitted A interface	N4	Will published later
N4-001091	Response to Liaison Statement on identifying responsibility for selection of the protocol over the Mp interface (Between SGSN server and PS-MGW)	S2	Noted
N4-001092	Reply to LS on Proposed enhancements to Mc specification	N3	Noted
N4-001093	CR 03.67 on removal of wrong description	Ericsson	Revised in Tdoc N4-1113
N4-001094	CR 23.067 on Correction of Pre-emption service (eMLPP)	Ericsson	Agreed
N4-001095	Transport of long RANAP messages on MAP-E interface	Alcatel	Agreed
N4-001096	Proposed improvements to Interactions with other Services (chapter 13)	Siemens, Ericsson	Agreed
N4-001097	TFO package (section 4.7.6)	Ericsson L.M.	Agreed
N4-001098	RE: LS on size of ranap messages over map-e	S2	Noted
N4-001099	RE: LS, SRNS relocation based on global title	S2	Noted
N4-001100	USED in TrFO ad hoc		
N4-001101	USED in TrFO ad hoc		
N4-001102	USED in TrFO ad hoc		
N4-001103	Proposed improvements to 3G TS 23.205 "Bearer Independent CS CN – Stage 2" related to Handover	Ericsson L.M., Siemens	Agreed
N4-001104	TS 23.205 Version 0.2.0 editors version	Editors	Agreed
N4-001105	Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3	Editors (CSELT/ Vodafone)	E-mail approval 24.11 CET 17:00
N4-001106	TS 23.153 Version 2.3.0	Editors	Agreed
N4-001107	To describe the MS solution when priority in paging and setup are not the same	SAGEM SA	Agreed

N4-001108	Automatic answering	SAGEM SA	Agreed
N4-001109	Introduction of CAMEL support for OR	Vodafone	Agreed
N4-001110	Liaison Regarding the Support of Mobility in the MSF Architecture	MSF Architecture Working Group	Noted
N4-001111	The accepted priority in the call proceeding message	SAGEM SA	Agreed
N4-001112	The accepted priority in the call proceeding message for GSM and UMTS	Sagem, Ericsson	Revised in Tdoc N4-001115
N4-001113	CR 03.67 on removal of wrong description	Ericsson	Agreed
N4-001114	CR 23.067 on correction of Pre-emption service	Ericsson	Agreed
N4-001115	The accepted priority in the call proceeding message for GSM and UMTS	Sagem, Ericsson	Revised in Tdoc N4-001118
N4-001116	LS providing Comments to LS from SA4 regarding support of DTX and No_Data frames.	N4	Agreed
N4-001117	Output documents	CN4 Chairman	Noted
N4-001118	The accepted priority in the call proceeding message for GSM and UMTS	Sagem, Ericsson	Agreed
N4-001119	LS on Size of RANAP messages over the MAP E-interface	N4	Agreed
N4-001120	LS on R99 Lossless Relocation for UMTS to TSG_CN	N4	Agreed
N4-001121	Answer to RAN 3 LS on Real Time SRNS Relocation for PS Domain RABs	N4	Agreed

Annex C: Make calls for IPRs

Under Article 3.1 of the Third Generation Partnership Project, the Organizational Partners undertook to encourage that their IPR Policies are respected by their members and that their respective members declare their willingness to grant licences on fair, reasonable terms and conditions on a non discriminatory basis, and consistent with their IPR Policies.

A list of essential patents declared with regard to transposed 3GPP deliverables can be found at http://www.3gpp.org/pcg/ipr_declarations.htm

3GPP Individuals Members are required to make reasonable endeavours to inform their respective Organizational Partners, in a timely manner, of Essential IPRs of which they become aware. You, as a Technical Specification Group Chairmen, are urged to remind your members of this obligation.

The objectives of the call for IPRs should be to:

- <u>remind the Individuals Members</u> and the person making the technical proposal of technical solution about their obligation under their respective Organizational Partners IPR Policy. To draw attention to any of their own IPRs which might be essential to a 3GPP Technical Specification and Technical Report, if their proposed solution is adopted; and other IPRs which they think could be Essential to the 3GPP Technical Specification and Technical Report under preparation
- <u>seek a statement from the person submitting</u> a technical solution concerning the existence of IPRs (especially patents), which are, or are likely to become, Essential to any 3GPP Technical Specification and Technical Report based on the proposed technical solution (an IPR statement)

It is obvious that the members' representatives present in 3GPP Technical Specification Groups cannot be deemed to know details of all IPRs owned by their company. However, you need to invite them to contact the patent experts of their company.

When?

A formal call for IPR must be made by the Chairman at the beginning of each meeting.

A shorter call for IPRs should be made:

- on formal creation of a work item;
- on formal submission of a technical solution;
- on completion of the first stable draft of the 3GPP Technical Specification and Technical Report;
- on working group approval of a draft 3GPP Technical Specification and 3GPP Technical Report;
- on TSG approval of a draft 3GPP Technical Specification and 3GPP Technical Report .

How?

- 1) The formal call for IPRs needs to be made by the Chairman orally or in writing according to the example given in the attached Appendix. Individuals Members needs to be informed that the form for the notification of essential IPRs and licensing declaration is available to them (For ETSI :http://www.etsi.org/ipr/IPRForms.pdf)).
- 2) During the meeting the shorter call of IPRs can consist in the following sentence "Does anyone have an essential IPR to declare?" as a reminder of the call for IPRs made in the beginning of the meeting.

If a member of your 3GPP Technical Specification Group informs you, as Chairman, that his company or someone else has a potentially Essential IPR, you should be aware of the fact that:

- the owner of an Essential IPR does not have to disclose anything other than its existence and identity, e.g. in the case of a patent, its number or that of the application;
- the holder of an Essential patent <u>should never be asked to disclose the commercial terms</u> under which licenses for the Essential patent may be made available,
- Members have no obligation to conduct formal IPR searches.

What needs to be done if no IPR statement can be obtained or if the IPR owner refuses to grant licenses?

As 3GPP Technical Specification Group Chairmen, <u>you need to encourage Individual Members to make IPR statement and Licensing Declaration at an early stage</u> in order to avoid undue delay to the work of the Technical Specification Group. However, organizations may need time to study the IPR situation – this may especially be the case for large organizations.

If it becomes apparent to you that an IPR statement is unlikely to be provided to you, you should inform the Project Coordination Group who will arrange with the Organizational Partners for the necessary declarations to be obtained.

Appendix A: Example of a formal call 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.

2.7 3GPP email lists:

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

subscribe 3GPP_TSG_CN_WG4 YourFirstName YourLastName

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

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

QUERY '

2.8 Email archives:

All 3GPP lists have an associated <u>archive of every email sent</u> via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest was to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the *3GPP_TSG_CN_WG4* list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

search * in 3GPP_TSG_CN_WG4 since Jan 1999

As well as a list of emails sent, you receive instructions about how to retrieve the emails. Some 3GPP archives are also available via a new user-friendly WWW interface. For CN4, go to: http://list.3gpp.org/archives/3gpp_tsg_cn_wg4.html

2.9 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

2.10 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	
30 th Nov 2000	DRAFT v.1.0.0 dispatched to the TSG_CN mail exploder for comments.
	Comments to be addressed to:
	Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.fr
	A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.
	E-mail comments back by 14 th December 2000
14 th Dec 2000	Draft report v2.0.0 placed on the FTP serve
15 th Jan 2001	Version 2.0.0 approved at CN4#06 Meeting in Beijing – Made version 3.0.0 and sent out for info. Placed to server as the official meeting report.