DRAFT

Third Generation Partnership Project

MEETING REPORT v1.1.0

3GPP TSG-CN4#20

Sophia Antipolis, France.
25th - 29th August, 2003

Hosted by:

ETSI

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1 Opening of the meeting and approval of the agenda

Mr. Kimmo Kymäläinen of ETSI/MCC welcomed the delegates to Sophia Antipolis on behalf of the hosts.
The meeting was chaired by Mr. Peter Schmitt, (Chair, Siemens). Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC). **N4-030733 APPROVED**

1.1 IPR Call

The Chairman reminded delegates of 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 delegates were 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 TSG CN and the CN working groups
- to notify the Director-General or chairman 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

2 Allocation of documents to agenda items

N4-030735 **Detailed agenda & time plan for CN4 #20: status on eve of meeting**
Discussion:
Status: **APPROVED.**

3 Meeting Reports

3.1 CN4#19 meeting report San Diego, USA

N4-030739 **CN4#19 meeting report San Diego, USA**
Discussion:
Status: **APPROVED.**

3.2 Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND

N4-030737 **Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND**
Discussion:
Status: **NOTED.**

4 Input liaison statements

N4-030754 **LS on Core Network Provision of separate flows for P2P and P2M radio Transmission and Minimum UE Capability Required for Supporting MBMS [R1-030630], RAN1.**
Discussion: CN4 copied for info only.
Status: **NOTED.**

N4-030755 **Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission [R2-0301483], RAN2.**
Discussion: CN4 copied for info only.
Status: **NOTED.**

N4-030759 **LS on CS interconnect charging for multi-media services (Video telephony) [S1-030979], SA1.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030761 **LS on Security issues regarding multiple PDP contexts in GPRS [S2-032680], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030970 **Reply LS on “Security issues regarding multiple PDP contexts in GPRS” [S2-033240], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030764 **LS on modification of the LDR event types [S2-032722], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030767 **IPv4 and IPv6 form of Charging Gateway Address [S2-032738], SA2.**

Discussion:

Status: **NOTED.**

N4-030768 **LS Response to "Inclusion of IMS Signalling Indicator in S-CDR" [S2-032741], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030769 **Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission [S4-030558], SA4.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030772 **LS on "Inclusion of IMS Signalling Indicator in S-CDR" [S5-034312], SA4.**

Discussion: SA5 has received a request from GSMA CPWP (S5-034152, attached) to add an "IMS charging indicator" to the SGSN CDR, similar to the one that already exists in the G-CDR. However, the GGSN indicator is based on a parameter in the PCO, while there is no such explicit indication visible to the SGSN. In the short term, the IMS Signalling indicator in the S-CDR could be determined by using the existing PCO flag along with the QoS indication – the GGSN setting the QoS Signalling flag in the negotiated QoS IE based upon the existing flag in the PCO. However, this mechanism will only work so long as the GGSN enforces setting the QoS flag based on the received PCO flag. If the GGSN does not enforce setting the QoS based upon the PCO flag, this solution cannot be used to indicate IM signalling in the S-CDR. However, even if the GGSN does set the QoS Signalling flag in the negotiated QoS when sending it back to the SGSN, it may, in effect, "upgrade" the signalling for the context. In the long term however, there is no guarantee that the existing flags will be used specifically for IM. The flag is really a radio resource indication for applications (which may be other than IMS). The current description of these flags does not ensure that they are for the sole use of IMS. For the long term, either SGSN must inspect the PCO (it is currently passed transparently to the GGSN) or another indicator is needed specifically to indicate that the context is being used for IM signalling.

Thus, there appear to be two possible solutions:

Introduce a new IM specific flag that the SGSN has access to (e.g. the GGSN passing this IM specific flag to the SGSN in the create PDP context response, based on the received PCO).

Force the SGSN to parse the PCO.

CN4 decided to wait response from SA2 before any kind of conclusion.

Status: **NOTED.**

N4-030773 **LS on possible re-organisation of 3GPP charging specification work [S5-034444], SA4.**

Discussion:

Status: **NOTED.**

N4-030956 **CN's view on possible re-organisation of 3GPP charging specification work, CN WGs chairmen.**

Discussion: If SA5 SWB moves to CN, the following sequence is envisioned:

- SWGB moves under CN as an ad-hoc
- SWGB agrees with SA1 to move stage 1 responsibility to SA1
- SWGB together with SA2 agrees on how to split the responsibility on stage 2
- SWGB gets integrated into CN3 or CN4 if the workload can be accommodated. Otherwise it might become a new WG.

Status: **NOTED.**

N4-030962 **Future Location of Work on Charging Standardisation, Nortel Networks.**

Discussion: Motorola would like to see some points on Nortel contribution to be added in CN level reply.

Nortel think there are no reason to response LS to SA5 about the issue.

Status: **NOTED.**

N4-030968 **Reply LS on possible re-organisation of 3GPP charging specification work [S2-033236], SA2.**

Discussion: Motorola would like to see some points on Nortel contribution to be added in CN level reply.

Nortel think there are no reason to response LS to SA5 about the issue.

CN4 decided to wait until SA5 has made a decision on the issue

Status: **NOTED.**

N4-030775 **LS reply for R99 and following on video telephony [S5-034450], SA5.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030777 **LS - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks [T2-030364], T2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030778 **Liaison to 3GPP from AT-F - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks [ETSI/AT(03)TD16R00], AT-F group.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030779 **EC Recommendation and explanatory note on the requirements for location information in emergency calls [IP/03/1122], European Comission.**

Discussion: CN4 MCC Support will check if document has sent to SA2.

Status: **NOTED.**

N4-030926 **Input LS Stage 3 level specification directions for support for subscriber certificate work item [S3-030469], SA3.**

Discussion: SA3 kindly ask CN4 to recommend a way to proceed from the 3 approaches by reviewing the attached contribution (S3-030340) and the draft TS on protocol C and D section.

Nokia: There have been more discussions in SA3 and alternative 3 doesn't exist anymore.

Nokia has made a WID proposal based alternative 1.

Ericsson would like to wait outcome of SA3 add hoc meeting. Ericsson believe CN4 could take stage 3 work of this subject, but not before SA3 has made decision about stage 2 and we know all the requirements

Siemens proposed LS to SA3 to ask more information about requirements.

LS drafted by Ericsson (N4-030974)

Status: **NOTED.**

N4-030974 **LS Response on Stage 3 level specification directions for support for subscriber certificate work item, Ericsson.**

Discussion: Nokia: Nokia: C and D interfaces should not be included into Cx protocol. Interfaces should handle differently

Lucent:: Action is needed to SA3:

CN4 request SA3 to provide clear guidance on the stage 3 requirements

Status: **REVISED to N4-031061**

⇓ REVISED ⇓

N4-031061 **LS Response on Stage 3 level specification directions for support for subscriber certificate work item, Ericsson.**

Discussion:

Status: **APPROVED**

N4-030926 **LS on new interface names [S3-030471], SA3.**

Discussion:

Status: **NOTED.**

N4-030967 **LS Response on new interface names [S2-033235], SA2.**

Discussion:

Status: **NOTED.**

5 Work Item management

N4-030906 **Support for subscriber certificates, stage 3, Nokia.**

Discussion: Lucent was added as a supported company of WID.

Status: **APPROVED.**

N4-030864 **Updated MBMS WID, 3**

Discussion: Only timescale updated.

Status: **ENDORSED by CN4.**

6 Release 6

6.1 Wireless LAN interworking

N4-030758 **LS on SMS/MMS Interworking from WLANs [S1-030967], SA1.**

Discussion:

Status: **NOTED.**

N4-030766 **LS on 802.11i / WPA and RADIUS to Diameter co-existence analysis and recommendations for WLAN interworking [S2-032727], SA2.**

Discussion: LS is related to N4-030790 and N4-030792

Status: **NOTED.**

N4-030776 **Re: LS on SMS/MMS Interworking from WLANs [T2-030316], T2.**

Discussion:

Status: **NOTED.**

N4-030790 **TS 29.234, 3GPP AAA Proxy Translation Agent detailed behaviour, Nokia.**

Discussion: China Mobile: Ws-diameter could be diameter or radius based

Nokia: We already decided Ws shall be diameter based.

Ericsson: Mapping on the server should be avoided.

Nokia: NASREQ IETF draft describes where translation need to be done.

Nokia: The 3GPP AAA Server needs to be aware of whether the client in the WLAN AN is RADIUS or Diameter based.

Ericsson don't like optionally because it may cause interoperability problems

Nokia: Radius is not use in AAA server.

Ericsson: You have to know if the user is radius. In any case you have to do double check.

After offline discussion Ericsson agreed the changes

Editorial comments from Nortel will be incorporated.

The changes will be incorporate to the new version of 29.234.

China Mobile would like to challenge the choice of radius based Ws-interface China Mobile will draft a discussion paper about the subject before CN4#21.

Status: **APPROVED**

N4-030791 **TS 29.234, Wr Procedure Description, Nokia**

Discussion: Lucent: References should be as described in 3GPP drafting rules.

France Telecom: Should be added that these are used only in radius based cases.

The changes will be incorporated to the new version of 29.234.

Status: **APPROVED**

N4-030792 **TS 29.234, 3GPP AAA Server behaviour when Interworking with RADIUS/Diameter clients, Nokia**

Discussion: Vodafone: We had discussion in the last meeting that we will use diameter base protocol

Chine Mobile: Would like to have radius as an optional protocol

Vodafone: CN plenary made already decision that protocol is based diameter.

The changes will be incorporated to the new version of 29.234.

Status: **APPROVED**

N4-030793 **TS 29.234, Ws Procedures Description, Nokia**

Discussion:

Status: **APPROVED**

N4-030794 **TS 29.234, Wx based on Cx, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030795 **TS 29.234, Wx message contents, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030796 **TS 29.234, Wx diagrams flows, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030934 **TS 29.234, Add HLR and CGF to network element entities; China Mobile, Huawei**

Discussion: Ericsson: There wasn't decision that D-interface is described in stage 2 Rel-6.

Nokia: SA2 has made decision that MAP extensions shouldn't be done.

For 29.002 there shouldn't be any enhancements

China Mobil: How do we know how the interworking to HLR is performed.

Nortel: It is not subject of this specification. This have to be described in the Stage 2.

France Telecom: Stage 2 already mentions that D' or Gr' are subsets of Gr and D reference points.

Stage 2 shall describe how an AAA server shall behave on pre Rel6 HLRs.

Delegates are asked to contact their SA2 colleagues on this topic.

Status: **WITHDRAWN**

N4-030935 **TS 29.234, Addition of D' reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030936 **TS 29.234, Addition of Wb reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030937 **TS 29.234, Addition of Wc reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030938 **TS 29.234, Addition of Wf reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030939 **TS 29.234, Supplement of Radius based Wr reference point description, Huawei, China Mobile**

Discussion: Nokia: IMSI is usually used in very secured interfaces.

Nokia: Some information element are related to charging. Session alive time and Charging Duration are very useful, but these should be described in charging specifications.

China Mobile would like to push finalise information element list.

Nokia: It's useful to have a list like described in section 6.5.1

Chairman: More discussion is needed about content of parameters.

China Mobile: The first part of CR is cover by Nokia contribution.

The last part is agains a decission of last meeting that the interface shall be diameter based.

Status: **WITHDRAWN**

N4-030977 **3GPP TS 29.234 V0.2.0; Editor**

Discussion: This document will be raised to v1.0.0 and send to CN#20 for information.

China Mobile would like to challenge the choice of diameter protocol. They will bring a contribution to next meeting.

Status: **APPROVED**

6.2 Generic User Profile

N4-030771 **LS on usage of GUP reference points [S5-032227], SA5.**

Discussion:

Status: **NOTED.**

N4-030760 **LS on usage of GUP reference points [S2-032679], SA2.**
Discussion:
Status: **NOTED.**

N4-030907 **TS 29.240, Main concept, Nokia.**
Discussion: The last meeting we decided to use SOAP as a working assumption.
CN4 decided to use document as basic for further development of 3GPP TS 29.240.
Status: **APPROVED.**

N4-030908 **TS 29.240, Profile Schema, Nokia.**
Discussion: Siemens: It should be described that mapping is implementation issue and not should be standardise in here.
Siemens: Do you suppose to have complete XML scheme description in the document?
Lucent: XML schema should be as complete as possible
Nortel: The format of Cx and Sh data definition have to be in line with data definition on GUP.
CN4 decided to use document as basic for further development of 3GPP TS 29.240.
Status: **APPROVED.**

N4-030909 **TS 29.240, Rp Definition, Nokia.**
Discussion: Ericsson: There is a liberty meeting during next week and our expert didn't want to comment this document before.Ericsson would like to have more time before they can approve the proposed text to 3GPP TS 29.240.
CN4 decided that the discussion about the topic will continue via Email. The next draft will be prepared for the next meeting which covers the result of the email discussion.
The deadline of email discussion will be 26th September 2003.
Status: **NOTED**

N4-030910 **LS OUT LS to SA1 on GUP work in CN4; Nokia.**
Discussion:
Status: **REVISED to N4-031020.**

⇓ REVISED ⇓

N4-031020 **LS OUT LS to SA1 on GUP work in CN4; Nokia.**
Discussion:
Status: **APPROVED.**

6.3 Presence

N4-030797 **Introduction of Presence Stage 3 (Px) to the Cx interface; Lucent**
CR: **29.228-041r1**
Discussion:
Status: **Revised to N4-030991**

⇓ REVISED ⇓

N4-030991 **Introduction of Presence Stage 3 (Px) to the Cx interface; Lucent**
CR: **29.228-041r2**
Discussion:
Status: **APPROVED**

N4-030798 **Introduction of Presence Stage 3 (Ph) to the Sh interface; Lucent**

CR: **29.328-026**

Discussion: Nortel: We should send an LS to SA2 to ask detailed information about Ph-interface because stage 2 is not clear enough.

Status: **POSTPONED TO CN4#21**

N4-030971 **LS response on "LS response CAMEL support for the Presence Service" [S2-033246], SA2.**

Discussion:

Status: **NOTED.**

N4-031018 **Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN; NTT DoCoMo**

CR: **23.078**

Discussion: This will be a part of collective presence CR.

Vodafone: Is support for presence as option in Rel-6? Does Camel also need to support on presence?

NTT DoCoMo: Do we have to use the feature in Camel 4 as mandatory or optional?

Ericsson: BSI information should be also enhanced

Vodafone: ASN1 description should not be directly effected on stage 2.

Draft LS to SA2 N4-030988 (revised to N3-031062) about the open issues

Status: **NOTED**

N4-030988 **LS on Clarification for the relation between CAMEL and Presence Service, NTT DoCoMo.**

Discussion: A paragraph about requirements of Ph interface should be added

Status: **REVISED to N4-031062**

⇓ REVISED ⇓

N4-031062 **LS on Clarification for the relation between CAMEL and Presence Service, NTT DoCoMo.**

Discussion:

Status: **APPROVED**

N4-030847 **Assingment of SSN value for Presence Network Agent; NTT DoCoMo**

CR: **23.003-069**

Discussion: The SSN of gsmSCF can be reused presence network agent

Nokia: We would like to postponed the discussion to next meeting because we need the more information from SA1 and SA2 about effects on Camel 4.

Status: **POSTPONED to CN4#21**

N4-030848 **Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info; NTT DoCoMo**

CR: **29.002 658**

Discussion:

Status: **REVISED to N4-030960**

⇓ REVISED ⇓

N4-030960 **Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info; NTT DoCoMo**

CR: **29.002 658r1**

Discussion: The SSN of gsmSCF can be reused presence network agent

Nokia: We would like to postponed the discussion to next meeting because we need the more information from SA1 and SA2 about effects on Camel 4.

Status: **POSTPONED to CN4#21**

N4-030849 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130**
Discussion:
Status: **REVISED to N4-030960**

⇓ REVISED ⇓

N4-030961 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130r1**
Discussion:
Status: **REVISED to N4-031019**

⇓ REVISED ⇓

N4-031019 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130r2**
Discussion:
Status: **POSTPONED to CN4#21**

6.4 Subscriber data handling for the IMS

6.4.1 HSS – CSCF (Cx) & SLF - CSCF (Dx) interfaces

N4-030928 **Reply to LS N4-030722 (=S3-030337) on adapting Cx interface protocols for security purposes [S3-030473]; SA3.**
Discussion:
Status: **NOTED**

N4-030830 **Version control in Cx and Sh; Nokia.**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030893 **Version control IMS; Nortel Networks**
Discussion:
Status: **WITHDRAWN**

N4-030931 **Version Control for Cx/Sh; Ericsson**
Discussion: Siemens: What does the lowest supported version means?

Ericsson: Should be the highest common supported version.

Nokia: What is the reason to send to the command twice when the version control is made on the command level?

Ericsson: Nortel proposes that the node which does not support the Command version responds; the version it supports that the originating can't send the message again in the supported version of the command.

Ericsson: The nodes support all lower versions.

Ericsson: To avoid incompatibility with IETF Ericsson wants to have version control on application level.

Ericsson would like to introduce the 3GPP version control also in IETF on Application level.

Nokia wants describe the 3GPP version control only in 3GPP and do not want to introduce it in IETF.

Nokia would like to see the version control on Command level.

France Telecom: An optional AVP at IETF should not become a mandatory AVP at 3GPP.

Nokia: We should handle the version control for 3GPP only.

Ericsson: CX interface protocol is handled in IETF. Do we want have our own Version control handling at 3GPP?

France Telecom: We should define a version control but it must be seen as temporarily solution until it is adopted in IETF by a new AVP.

Vodafone: Cx interface protocol is also handled in IETF, Sh interface is only controlled by 3GPP.

Siemens: Do we need a version control now? (according to decision at CN4#14).

Ericsson doesn't see any harm to have this version control described now.

Lucent would prefer a solution which is more in the direction of IETF.

Status: **POSTPONED to CN4#21**

N4-030831 **Sharing public identities across multiple UEs; Nokia.**

CR: **29.228 052**

Discussion: Nokia: This is only for Rel-6.

France Telecom: Do we need the distinguish between public an Private user identity on Sh Interface?

Nokia: Sh interface is only private identity related.

Lucent: Does the schema must be also changed?

Nokia: There are only the relationship in the HLR which are more complicated; The Cx interface relation chip does not change.

France Telecom: This should be described may be in 23.008?!

Status: **AGREED**

N4-030834 **Originating S-CSCF name; Nokia.**

CR: **29.228 053**

Discussion: Depend on decision N4-030993

Status: **POSTPONED to CN4#21**

N4-030835 **Originating S-CSCF name; Nokia.**

CR: **29.229 020**

Discussion: Depend on decision N4-030993

Status: **POSTPONED to CN4#21**

N4-030870 **Status of DMA IETF draft; Ericsson.**

Discussion: Ericsson: Companies should follow the discussion on the IETF mailing list to avoid any incompatible changes related to 3GPP release 5.

Vodafone: Does the command codes have 3GPP private command codes?

Ericsson: The command codes are temporarily.

France Telecom: Time frame for IETF DMA application mile stone is not defined yet, it depends when a work item at IETF is agreed.

Status: **NOTED**

6.4.2 HSS – SIP AS (Sh) interface

N4-030836 **Originating S-CSCF name; Nokia.**

CR: **29.328-037**

Discussion:

Status: **POSTPONED to CN4#21**

N4-030832 **Dh interface; Nokia.**
CR: **29.328 036**
Discussion: Ericsson: The Title of the document should be changed as well? MCC has to check if this is possible.
Siemens: Is this only for Release 6?
Nokia: This is only a requirement starting with Rel.6. Interface AS-SLF will present only in Rel 6.
Email discussion should take place until CN4 next meeting.
Status: **POSTPONED to CN4#21**

6.5 CAMEL phase 4

N4-030750 **Enhancements for the Partial Implementation for Enhanced Dialled Services, Alcatel.**
CR: **29.002 525**
Discussion: The CR is approved. Will be a part collective CR and won't be send to CN#21 for approval.
Status: **NOTED**

N4-030840 **Collective CR for Rel-6 Enhanced Dialled Services, Nokia.**
CR: **23.078 553**
Discussion:
Status: **NOTED**

N4-030841 **Collective CR for Rel-6 Enhanced Dialled Services, Nokia.**
CR: **23.018-126**
Discussion:
Status: **NOTED**

6.6 GPRS

N4-030780 **DISC GTP Path Failure Recovery; Nortel Networks.**
Discussion: Lucent: How the restart value is managed in GSN?
Nortel: GSN has one local value for restart. GSN has also restart values that corresponds to the each connected GSNs.
Vodafone: Lower layer can also treat path failure?
Nortel: TDOC tries to put more function on GTP layer but Nortel agree that lower layer can do something other than this.
Ericsson: What is the benefit of this CR?
Nortel: You don’t have to send PDP context update message for this purpose.
Ericsson believes that this is not a best solution.
Nokia thinks that since this is an optional feature, some company won’t support this feature as well.
Nortel withdrew this contribution on an assumption that the echo handling would be mandated in future meeting for REL6. This issue will continue to be discussed in out future meeting.
Status: **NOTED**

N4-030781 **Enhancement of Recovery IE to reduce number of dangling PDP Contexts; Nortel Networks.**
CR: **29.060 431**
Discussion:
Status: **WITHDRAWN**

N4-030782 **Change of Restart Counter definition for enhanced GTP recovery procedures; Nortel Networks.**
CR: **23.007 008**

Discussion:

Status: **WITHDRAWN**

N4-030817 **Removal of End User Address from Create Subsequent PDP Context Response; Nortel Networks.**

CR: **29.060 436**

Discussion: Nortel: Within 29.060, it is currently not entirely clear whether the End User Address should be included in Create PDP Context Response for establishment of a Subsequent PDP Context. It is clear however, that whether the parameter is included or not, providing the End User Address in this situation is redundant, since End User Address should be the same for a Subsequent PDP Context as it is for the associated primary PDP Context.

Ericsson agrees with the CR, but they think second added sentence is redudant information.

Acceped by the meeting.

Nokia:We can accept the CR, but added text should be relocate.

Accepted by the meeting

Status: **REVISED N4-031011**

⇓ REVISED ⇓

N4-031011 **Removal of End User Address from Create Subsequent PDP Context Response; Nortel Networks.**

CR: **29.060 436r1**

Discussion:

Status: **AGREED without presentation**

N4-030878 **DISC GTP Diagnostic Information; Nortel Networks, Vodafone.**

Discussion: Nokia: The idea is interesting, but too much work to implement when we thinking about benefit.

Ericsson: In the last CN4 meeting, it is concluded that the next discussion would be held in SA2. You are introducing a new mechanism and this should be handled at first in SA2

Siemens: using a tracer in case of Interoperability test is a better solution. If an error is detected during a interoperability test a tracer has to be used anyway to find the error.

Status: **NOTED**

N4-030879 **Diagnostic Information in GT, Nortel Networks.**

CR: **29.060-382r2**

Discussion:

Status: **WITHDRAWN**

N4-030969 **LS on P-TMSI signature validation functionality in R99 [S2-033237]; SA2.**

Discussion: Ericsson: We believe that both the UE and the Old SGSN need to have P-TIMSI Signature to be able to make a comparison. They believe chapter 7.7.1 is clear enough and no changes are needed. Ericsson believes it's not a mismatch.

CN4 should answer to SA2 to say ‘P-TMSI Signature mismatch’ is not applied for the case that the LS explained. Further morecompanies shall internally inform their SA2 delegates that enhancing GTP v0 shall be avoided.

LS back to SA2 (N4-031015)

Status: **NOTED**

N4-031015 **Reply LS on P-TMSI signature validation functionality in; Ericsson.**

Discussion:

Status: **REVISED to N4-031063**

⇓ **REVISED** ⇓

N4-031063 **Reply LS on P-TMSI signature validation functionality in; Ericsson.**
Discussion:
Status: **APPROVED without presentation**

N4-030911 **Robust authentication during Attach and RAU, Nokia.**
CR: **29.060 445**
Discussion:
Status: **POSTPONED to CN4#21**

6.7 Mn Interface protocol

N4-030912 **TS 29.332, Mandatory IMS packages, Nokia.**
Discussion: Ericsson need more information why these packages are needed. Some of the packages are includedin H.248 and q.1950 and so currently covered.
Nokia and Ericsson will have offline discussion about which packages are already covered by H.248, etc.
Status: **REVISED to N4-030975**

⇓ **REVISED** ⇓

N4-030975 **TS 29.332, Mandatory IMS packages, Nokia.**
Discussion:
Status: **POSTPONED to CN4#21**

6.8 TRFO/Codec control

6.9 MAP specification

N4-030748 **Removal of SIWF description, Vodafone.**
CR: **29.002 642**
Discussion: NEC: Do we need to remove the SSN in 23.003?
Vodafone will prepare CR on 23.003 to next CN4 meeting if needed.
Status: **AGREED**

N4-030749 **Deletion of redundant Annex D, Vodafone.**
CR: **29.002 643**
Discussion:
Status: **AGREED**

N4-030785 **Removal of tables in section 7.6, Nortel Networks.**
CR: **29.002 644**
Discussion:
Status: **AGREED**

N4-030802 **Message Segmentation Mechanisms, Siemens.**
CR: **29.002 648**
Discussion: The principle to have an annex like this, Companies are invited to make inputs via the CN4 email exploder.
Status: **POSTPONED to CN4#21**

N4-030806 **Correction of References, Siemens.**
CR: **29.002 649**
Discussion:
Status: **AGREED**

N4-030815 **Correction of wrong AC name in the table in 17.1.6, Vodafone.**
CR: **29.002 665**
Discussion:
Status: **AGREED**

N4-030875 **Correction of serviceTerminationContext to immediateTerminationContext, Vodafone.**
CR: **29.002 653**
Discussion:
Status: **WITHDRAWN before meeting**

N4-030951 **SS-Barring Category, Siemens.**
CR: **29.002 671**
Discussion:
Status: **AGREED**

N4-030819 **Add SGSN, GGSN and GMLC to network resource parameter, NEC.**
CR: **29.002 650**
Discussion: Siemens: It could be good to add all MAP nodes known so far.
Agreed by source

Status: **REVISED to N4-031006**

N4-031006 **Add SGSN, GGSN and GMLC to network resource parameter, NEC.**
CR: **29.002 650r1**
Discussion:
Status: **AGREED**

N4-030877 **Optionality of the ProcessUnstructuredSS-Request Operation Result, Lucent.**
CR: **29.002**
Discussion:
Status: **WITHDRAWN before meeting**

6.10 Location services

N4-030756 **Liaison Statement on “Emergency Services Routing Based on Interim Position”[S1-030832; SA1.**
Discussion:
Status: **NOTED**

N4-030966 **Reply to Liaison Statement on “Emergency Services Routing Based on Interim Position” [S2-033225; SA1.**
Discussion:
Status: **NOTED**

N4-030786 **Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network, AWS**

CR: **29.002-645 (Rel-6)**

Discussion: Nokia: a number at ExtensionContainer should be removed because of backward compatibility.

Status: **REVISED to N4-031038**

⇓ REVISED ⇓

N4-031038 **Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network, AWS**

CR: **29.002-645r1 (Rel-6)**

Discussion:

Status: **AGREED without presentation**

N4-031039 **Reply LS on Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network**

Discussion: LS to: T1P1, SA1, SA2

Status: **APPROVED**

N4-030818 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-655 (Rel-6)**

Discussion:

Status: **REVISED to N4-031040**

N4-031040 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-655r1 (Rel-6)**

Discussion: A CR was already approved, but Nortel wanted to withdrawn it because of changed decision in RAN3.

Status: **WITHDRAWN**

N4-031065 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-674 (Rel-6)**

Discussion: A CR will be available 2nd September 2003.

Discussion until 5th September 12:00. If approved a document will sent to CN#21 for approval.

Status: **EMAIL approval**

N4-030824 **New LCS Service Types; Siemens**

CR: **29.002-654 (Rel-6)**

Discussion:

Status: **AGREED**

6.11 Any Other Business for Rel-6

6.11.1 MBMS

N4-030863 **Introduction to MBMS; 3.**

Discussion: Lucent: Do we need a new GTP version?

In general new version should be avoided however the discussion was not concluded – there was a late discussion paper on this and it was not presented, it was proposed to delay conclusion of this until next meeting

3: There is going to be some new messages when MBMS is included in 29.060. The principle in this paper was to have a new section to cover MBMS in TS 29.060.

Status: **PRINCIPLE AGREED**

N4-030865 **Overview changes to 29.060 for MBMS; 3.**
CR: **29.060-444 (Rel-6)**
Discussion: 3: Would like to have agreement with the new sections on CR.
Lucent: We can agree the principle, but we can't agree the CR before it's complete.
3: No changes are needed in 23.060
The principle is agreed that for MBMS related messages a new chapter will be introduced.
Meeting agreed to use this CR as a base version for future work on MBMS.
Status: **POSTPONED to next meeting**

6.11.2 Handover/Relocation

N4-030867 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092 (Rel-6)**
Discussion: Lucent: We can agree the changes, but the place of the changes could be 23.009.
Nokia: The last CN1 meeting decided that changes should be in 29.010 specification.
Siemens: This kind of information is not needed in standards. This is not relevant information for the people who are making implementation.
Ericsson: If we agree the changes we should find a better place to on 29.010 to add the changes.
Ericsson: The sentences under section 1. should be deleted and some information added instead off original proposal.
Status: **REVISED to N4-030992**

⇓ REVISED ⇓

N4-030992 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-031064**

⇓ REVISED ⇓

N4-031064 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092r2 (Rel-6)**
Discussion:
Status: **AGREED**

6.11.3 Subscriber and Equipment trace

N4-030929 **LS reply on Rel-6 Subscriber and Equipment Trace impacts to the Core Network [N4-038444]; SA5.**
Discussion: Companies are requested to study the issues. CN4 can't answer any of these questions before studying.
Status: **POSTPONED to CN4#21**

N4-030965 **Trace presentation**
Discussion: Presented at joint session with CN1
Status: **NOTED**

6.11.5 Basic Call handling

NP-030959 **Removal of SIWF material; Vodafone**
CR: **23.018-132 (Rel-6)**

Comments:
Status: **AGREED.**

7 Release 5 maintenance

7.1 Subscriber data handling for the IMS

N4-030787 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122**
Discussion: Siemens: 29.229 needs be updated.
Nokia: Information is only needed in HSS
France Telecom: CR needs to be changed to reflect this.
Vodafone: This is a useful change to allow operators to bar special operators/networks.
Status: **REVISED to N4-030994**

⇓ REVISED ⇓

N4-030994 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122r1**
Discussion: Siemens: Chapter 5.3 needs to be changed as well.
"P-CSCF identifier" changed to "visited network identifier"
Status: **REVISED to N4-031066**

⇓ REVISED ⇓

N4-031066 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122r2**
Discussion: Proxy CSCF have to be replaced by visited network
Status: **AGREED without presentation**

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

N4-030789 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051**
Discussion:
Status: **REVISED to N4-030963**

⇓ REVISED ⇓

N4-030963 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051r1**
Discussion:
Status: **REVISED to N4-030995**

⇓ REVISED ⇓

N4-030995 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051r2**
Discussion:
Status: **AGREED**

N4-030807 **Error in S-CSCF Assignment Type; Siemens.**
CR: **29.228-042**
Discussion:
Status: **REVISED to N4-030997**

⇓ REVISED ⇓

N4-030997 **Error in S-CSCF Assignment Type; Siemens.**
CR: **29.228-042r1**
Discussion:
Status: **AGREED**

N4-030837 **The S-CSCF name needs to be checked always in MAR; Nokia.**
CR: **29.228-054**
Discussion:
Status: **REVISED to N4-030954**

⇓ REVISED ⇓

N4-030954 **The S-CSCF name needs to be checked always in MAR; Nokia.**
CR: **29.228-054r1**
Discussion: Nokia wanted to postpone CR to next meeting
Status: **POSTPONED to CN4#21**

N4-030838 **The S-CSCF name needs to be checked always in MAR and SAR; Nokia.**
CR: **29.229-021**
Discussion: Nokia wanted to postpone CR to next meeting
Status: **POSTPONED to CN4#21**

N4-030839 **Extensibility of the public identity structure in the XML schema; Nokia.**
CR: **29.228-055**
Discussion:
Status: **REVISED to N4-030998**

⇓ REVISED ⇓

N4-030998 **Extensibility of the public identity structure in the XML schema; Nokia.**
CR: **29.228-055r1**
Discussion:
Status: **AGREED without presentation**

N4-030868 **Correction on the PPR command code; Ericsson.**
CR: **29.229-022**
Discussion:
Status: **REVISED to N4-030999**

⇓ REVISED ⇓

N4-030999 **Correction on the PPR command code; Ericsson.**
CR: **29.229-022r1**
Discussion:

Status: **AGREED**

7.1.2 HSS – SIP AS (Sh) interface

N4-030788 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032**
Discussion:
Status: **REVISED to N4-030821**

⇓ REVISED ⇓

N4-030821 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032r1**
Discussion:
Status: **REVISED to N4-031000**

⇓ REVISED ⇓

N4-031000 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032r2**
Discussion:
Status: **AGREED**

N4-030811 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033**
Discussion: A document was presented by Siemens delegate.
Nokia: Does granularity of service data has always optional?
Siemens, Nortel and Ericsson: If the AS wants to delete data it did not send the TAG.
Nokia: Charging data needs to be more flexible
Status: **REVISED to N4-031001**

⇓ REVISED ⇓

N4-031001 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033r1**
Discussion:
Status: **REVISED to N4-031067**

⇓ REVISED ⇓

N4-031067 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033r2**
Discussion:
Status: **AGREED**

N4-030823 **XML schema correction; Siemens.**
CR: **29.328-034**
Discussion: The CR was combined with approved **.**
Status: **WITHDRAWN**

N4-030825 **Mistakes in the XML schema of 29.328; Orange.**

CR: **29.328-035**
Discussion:
Status: **REVISED to N4-030964**

⇓ REVISED ⇓

N4-030964 **Mistakes in the XML schema of 29.328; Orange.**
CR: **29.328-035r1**
Discussion:
Status: **REVISED to N4-031002**

⇓ REVISED ⇓

N4-031002 **Mistakes in the XML schema of 29.328; Orange.**
CR: **29.328-035r2**
Discussion:
Status: **AGREED**

7.2 CAMEL phase 4

N4-030829 **Correction to interaction between ORLCF and forwarding notification; Ericsson.**
CR: **23.079-025**
Discussion:
Status: **REVISED to N4-030978**

⇓ REVISED ⇓

N4-030978 **Correction to interaction between ORLCF and forwarding notification; Ericsson.**
CR: **23.079-025r1**
Discussion: SA1 have to update stage 1.
Status: **AGREED**

7.3 GPRS

N4-030854 **Correction to reduce number of hanging PDP Contexts in GGSN; Ericsson**
Discussion: Ericsson's proposal: Our impression is that the case described above has been overlooked in the GTP standardisation. By introducing the IMSI IE to the Delete PDP Context Request message, the GGSN will be able to identify (using IMSI and NSAPI) which PDP Context that is to be removed. This is the same approach used in the Update PDP Context Request message to solve a similar problem (see 29.060, sub clause 7.3.3).

As there might be other situations when the SGSN needs to inform the GGSN to delete a PDP Context but still not have received the TEID, the inclusion of the IMSI IE shall not be limited to only the case described in this document.

Lucent & Vodafone D2: Sending IMSI as proposed is not a best solution and secure way. Instead of changes in 29.060 the changes should be made in 23.060.

Ericsson: After discussion Ericsson decided to withdrawn CRs.
Status: **NOTED**

N4-030855 **Introduction of IMSI in the Delete PDP Context Request message; Ericsson**
CR: **29.060-437**
Discussion:
Status: **WITHDRAWN**

N4-030856 **Introduction of IMSI in the Delete PDP Context Request message; Ericsson**
CR: **29.060-438**
Discussion:
Status: **WITHDRAWN**

N4-030946 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-452 (Rel-5)**
Discussion: "and 'Non-existent'" change will be removed.
Companies don't believe that correction is so serious that it can be approved in Rel-5.
Meeting decided to approve only Rel-6 CR
Ericsson: Title should be changed
Status: **WITHDRAWN**

N4-030947 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453 (Rel-6)**
Discussion:
Status: **REVISED to N4-031012**

⇓ REVISED ⇓

N4-031012 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-031054**

⇓ REVISED ⇓

N4-031054 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453r2 (Rel-6)**
Discussion:
Status: **AGREED**

N4-030989 **Reply LS on alignment of maximum bit rate for HSDPA in UMTS system; CN1**
Discussion: CN4 didn't have to time to handle LS which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030980 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.002-672 (Rel-5)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030981 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.002-673 (Rel-6)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030982 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.060-454 (Rel-5)**

Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030983 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.060-455 (Rel-6)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

7.4 Bearer Independent Architecture

No documents in this meeting.

7.5 TrFO/Codec control

N4-030915 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **23.153-068 (Rel-5)**
Discussion: The MAP CR shall reflect that the request and the response codec list are different.
Status: **REVISED to N4-031027**

⇓ REVISED ⇓

N4-031027 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **23.153-068r1 (Rel-5)**
Discussion: CN 1 chairman needs to be informed that 23.009 is affected by these CRs.
Status: **POSTPONED to CN4#21**

N4-030918 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **23.153-069 (Rel-5)**
Discussion:
Status: **REVISED to N4-031028**

⇓ REVISED ⇓

N4-031029 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **23.153-069r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030919 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-569 (Rel-5)**
Discussion:
Status: **REVISED to N4-030990**

⇓ REVISED ⇓

N4-030990 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-569r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030920 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**

CR: **29.002-570 (Rel-6)**
Discussion:
Status: **REVISED to N4-031026**

⇓ REVISED ⇓

N4-031026 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-570r1 (Rel-6)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030916 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-667 (Rel-5)**
Discussion:
Status: **REVISED to N4-031029**

⇓ REVISED ⇓

N4-031029 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-667r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030917 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-668 (Rel-6)**
Discussion:
Status: **REVISED to N4-031030**

⇓ REVISED ⇓

N4-031030 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-668r1 (Rel-6)**
Discussion:
Status: **POSTPONED to CN4#21**

7.6 SCUDIF

N4-030757 **LS on CAMEL interactions with SCUDIF [S1-030961], SA1**
Discussion:
Status: **NOTED**

N4-030904 **CAMEL Interactions For SCUDIF In Release 5, Ericsson**
Discussion: Proposed functionality
Step A&B only in Rel-5
Status: **NOTED**

N4-031021 **CAMEL Interactions For SCUDIF In Release 5, Ericsson**
Discussion: The principle of the one step interrogation is agreed
Status: **NOTED**

N4-030846 **Should SCUDIF have a single basic service code?; Vodafone**
Discussion: Vodafone proposal brakes the architecture compares the Vodafone's proposal

Status: **NOTED**

N4-031022 **SCUDIF HLR Interrogation; NTT DoCoMo**
CR: **23.172-016 (Rel-5)**
Discussion: Last bullet preferred service shall be always be selected.
Agreed that the text which is related to basic call handling will be changed to an SDL and these will be incorporated into 23.018
The resulting CR has to be submitted to CN2, CN3 and CN4
Will be splitted into two CRs:
N3-030614 (23.172)
N4-031025 (23.018)
Status: **REVISED to N3-030614**

N4-031025 **SCUDIF HLR Interrogation; NTT DoCoMo, Ericsson**
CR: **23.018-133 (Rel-5)**
Discussion: SDLs will be on email approval with deadline Friday 5th September 2003 12:00 CET.
Status: **EMAIL approval**

N4-030930 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **23.079-026 (Rel-5)**
Discussion:
Status: **REVISED to N4-031055**

⇓ REVISED ⇓

N4-031055 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **23.079-026r1 (Rel-5)**
Discussion:
Status: **AGREED without presentation**

N4-031007 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-659r1 (Rel-5)**
Discussion:
Status: **REVISED to N4-031056**

⇓ REVISED ⇓

N4-031056 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-659r2 (Rel-5)**
Discussion:
Status: **AGREED without presentation**

N4-031017 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-660r1 (Rel-6)**
Discussion: This is a mirror CR.
Status: **REVISED to N4-031057**

⇓ REVISED ⇓

N4-031057 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-660r2 (Rel-6)**

Discussion: This is a mirror CR
Status: **AGREED as a mirror CR**

N4-031023 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-613r2 (Rel-5)**
Discussion: Nokia: Allowed services should be defined as a bitstring
bitstring size should be 2-8

Status: **REVISED to N4-031058**

⇓ REVISED ⇓

N4-031058 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-613r3 (Rel-5)**
Discussion:
Status: **AGREED**

N4-031024 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-614r2 (Rel-6)**
Discussion: This is a mirror CR.
Status: **REVISED to N4-031059**

⇓ REVISED ⇓

N4-031059 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-614r3 (Rel-6)**
Discussion: This is a mirror CR.
Status: **AGREED as a mirror CR**

7.7 Mobile Number Portability

Here is a short summary about number portabilily discussions :

ATI:
Arguments:
- Since we are requesting dynamic information ATI should be used. Because ATI is used for requesting dynamic information.
- gsmSCF is already capable of sending ATI.

Editorials:
Stage 2 impacts are distributed over MNP (23.066) and CAMEL (23.078) although stage 1 requirement is only on MNP (22.066).
Stage 3 impacts on MAP (29.002)
CR to 23.066 is "kind of" technical correct but needs massive editorial corrections.

Supporting companies:
Nortel Networks, Lucent , Ericsson, Sonera prefers ATI but basically they want to have a solution for Release 5.

SRI:
Arguments:
- Since we are requesting kind of routing information (charging is based on routing), SRI seems to be the more logical solution.
- gsmSCF and SRF are already capable of sending/receiving SRI.
- less impact on SRF*(from standard point of view, depends on the implementation of SRF)*.

Editorials:
Stage 2 impacts on MNP (23.066) since stage 1 requirement is on MNP (22.066)
Stage 3 impacts on MAP (29.002).

Supporting companies:
Nokia, Siemens, T-Mobile has a slight preference to SRI but it should be a release 5 issue

N4-030752 LS on MNP[NP-030301], CN

Discussion:

Status: **NOTED**

N4-030783 MNP/ CAMEL Pre-Paid MNP-SRF solution; Nortel Networks

Discussion: Nokia and Siemens support SRI

Ericsson, Nortel, Lucent and Telia-Sonera support ATI. Telia-Sonera would like to see the changes in Rel-5.

T-Mobil: Since we are requesting kind of routing information, SRI seems to be more logical solution.

Status: **NOTED**

N4-030784 Incorrect CAMEL pre-paid charging in MNP networks; Nortel Networks, Ericsson

CR: **23.066-026 (Rel-5)**

Discussion: Annex D will incorporated with Annex C

Siemens: Why do we need indirect routing, is it better to use direct routing?

Indirect routing is needed if SRF is in a different network.. MNP database can be in the different network.

Ericsson agreed to remove the part of indirect routing.

Siemens: Why there is (in D 2.1) the calling party added? Siemens doesn't see the requirement fir this/

Ericsson wants to have a more generic version.

Siemens: The SCP has already the information so it is not needed.

Siemens: Routing number is not needed when interrogating SFR. It's only needed when interrogating the SCP later.

Siemens: Routing number is not needed when interrogating the SRF it is only needed when interrogating the SCP later and this is already covered.

Ericsson would like to have it more general to cover the minimum requirement

Siemens: Why the calling party number is mentioned in section D 2.1? Calling party number should be removed.

Lucent: Terminology of this CR should be reworded

Status: **REVISED to N4-030984**

⇓ REVISED ⇓

N4-030984 Incorrect CAMEL pre-paid charging in MNP networks; Nortel Networks, Ericsson

CR: **23.066-026r1 (Rel-5)**

Discussion: Siemens: This CR doesn't include the changes we discussed earlier during this week. Ericsson offer to revise the changes, after it is agreed that they are infact only editorial, Siemens eventually accept to keep CRs as is.

Siemens: We based our stage 2 from requirement from stage1 not from individual vendor or operator.

Ericsson disagree. Ericsson has studied stage 1 and they believe there are high level requirements in stage1 which should be full fill.

Companies agreed that CR is technically correct and acceptable as well as SRF based CR by Siemens.

CR will be sent to CN#21 for approval. There will be 2 different CR packs in plenary. A CR set from Siemens which is based SRF and another set from Nortel/Ericsson which is based ATI.

Status: **AGREED**

N4-030803 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **23.066-024 (Rel-5)**

Discussion: Ericsson: MNPSRF info query is not specified in this CR, should it have included?

Ericsson: the last paragraph in C.1 ; SRF should be send back to sender, not subscribing network.

Ericsson: 2 CRs 784 and this one should be combined.

Status: **REVISED to N4-030987**

⇓ REVISED ⇓

N4-030987 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **23.066-024r1 (Rel-5)**

Discussion: Ericsson believes there is a 23.078 CR which should be linked with this CR.

Siemens: We don't believe that it's not necessary have modifications in Camel stage 2 specification. Changes can be cover by MNP stage 2 specification.

Companies agreed CR is technically correct.

CR will be sent to CN#21 for approval. There will be 2 different CR packs in plenary. A CR set from Siemens which is based SRF and another set from Nortel/Ericsson which is based ATI.

Status: **AGREED**

N4-030804 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **29.002-596r1 (Rel-5)**

Discussion: Context of the CR was agreed by CN4.

Status: **AGREED**

N4-030805 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **29.002-597r1 (Rel-5)**

Discussion: Context of the CR was agreed by CN4.

Status: **AGREED**

N4-030895 **Incorrect Charging With MNP; Ericsson**

CR: **29.002-615r1 (Rel-5)**

Discussion: Siemens: Routing info IMSI and MSISDN don't need to be requested. Ericsson agree to removing the explicit request for this additional data if Siemens will then agree to these CRs - reply will still include the IMSI and Routeing Number.

Vodafone: CN2 needs to be review stage 2 CRs

Status: **REVISED to N4-030985**

⇓ REVISED ⇓

N4-030985 **Incorrect Charging With MNP; Ericsson**

CR: **29.002-615r2 (Rel-5)**

Discussion:

Status: **REVISED to N4-031068**

⇓**REVISED**⇓

N4-031068 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-615r3 (Rel-5)**
Discussion: Meeting agreed that the CR is technically correct.
Status: **AGREED**

N4-030896 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-616r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-030986**

⇓**REVISED**⇓

N4-030986 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-616r2 (Rel-6)**
Discussion:
Status: **REVISED to N4-031069**

⇓**REVISED**⇓

N4-031069 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-615r3 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030894 **SRF Based MNP Charging Solution; Ericsson**
Discussion:
Status: **WITHDRAWN**

N4-030897 **Incorrect Charging With MNP; Ericsson**
CR: **29.066-025 (Rel-5)**
Discussion:
Status: **WITHDRAWN**

7.8 MAP specification

N4-030952 **Provision of SDL diagrams and removal of redundant text in chapter 19; Vodafone**
CR: **29.002-636r2 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030953 **Provision of SDL diagrams and removal of redundant text in chapter 19; Vodafone**
CR: **29.002-637r2 (Rel-6)**
Discussion: This is a mirror CR.
Status: **AGREED as mirror CR**

N4-030814 **Correction of misaligned signal names between VLR and PVLR; Vodafone**
CR: **29.012-012 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030744 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-638 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030745 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-639 (Rel-6)**
Discussion: This is a mirros CR.
Status: **AGREED as mirror CR**

N4-030746 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-640 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030747 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-641 (Rel-6)**
Discussion: This is a mirros CR.
Status: **AGREED as mirror CR**

N4-030812 **Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message; Hewlett-Packard**
CR: **29.002-651 (Rel-5)**
Discussion:
Status: **WITHDRAWN**

N4-030813 **Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message; Hewlett-Packard**
CR: **29.002-652 (Rel-6)**
Discussion:
Status: **WITHDRAWN**

7.9 Early UE handling

N4-030751 **Input LS LS on Stage 3 work for Early UE handling; Nokia [G2-030437], GERAN2.**
Discussion:
Status: **NOTED**

N4-030762 **LS on inconsistency between UESBI-Iu definition in MAP and RANA [S2-032713], SA2.**
Discussion: N4-030921 CR propose the changes related this LS.
Status: **NOTED**

N4-030921 **UESBI format; Siemens**
CR: **29.002-646 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030922 **UESBI format; Siemens**
CR: **29.002-647 (Rel-6)**

Discussion: This a mirror CR on Rel-6
Status: **AGREED as a mirros CR**

N4-030763 **LS on minor issues identified by SA 2 during a review of the stage 3 CRs for the Early UE feature [S2-032714], SA2.**
Discussion: Covered by 29.010 091, 29.002 646
CR is needed also on 29.060 to full fill requirements on LS. Will be drafted by Vodafone
Status: **NOTED**

N4-030866 **Addition of Early UE specific cause code mapping; Nokia**
CR: **29.010-091 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030844 **Corrections to "Early UE" handling; Vodafone**
CR: **23.012-013 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **REVISED to N4-031005**

⇓ REVISED ⇓

N4-031005 **Corrections to "Early UE" handling; Vodafone**
CR: **23.012-013r1 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **AGREED without presentation**

N4-030845 **Corrections to "Early UE" handling; Vodafone**
CR: **23.018-128 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **AGREED**

N4-031003 **Change of Early UE feature to PUESBINE; Vodafone**
CR: **29.060-454 (Rel-5)**
Discussion:
Status: **AGREED**

N4-031004 **Change of Early UE feature to PUESBINE; Vodafone**
CR: **29.060-456 (Rel-6)**
Discussion:
Status: **AGREED**

7.10 Location Services

NP-030765 **LS on the length of “LCS RequestorID” and “LCS Codeword” [S2-032725]; SA2**
Comments:
Status: **NOTED.**

NP-030826 **Reduce maximum length of “LCS Requestor ID” and “LCS Codeword”; Ericsson**
CR: **29.002-656 (Rel-5)**
Comments:
Status: **AGREED.**

NP-030828 **Reduce maximum length of "LCS Requestor ID" and "LCS Codeword"; Ericsson**
CR: **29.002-656 (Rel-6)**
Comments: This is a mirror CR
Status: **AGREED as a mirror CR.**

NP-030827 **Reduce maximum length of "LCS Requestor ID" and "LCS Codeword"; Ericsson**
CR: **24.080-029 (Rel-5)**
Comments:
Status: **AGREED**

7.11 Any Other Business for Release 5

7.11.1 Supplementary service

NP-030799 **MSC/VLR Transparency for Call Forwarding Supplementary Services; Lucent**
CR: **23.082-015; (Rel-5)**
Comments: Nick is it a critical correction?
Lucent would also accept it for Rel-6.
Siemens: What about the long forwarding to number parameter which is optional. Shall this send transparent also in the case when the MSC VLR does not support long forwarding to messages? This is in contradiction with the current specification.
Nokia: The CR is not necessary. It is already covered in 29.002 in more detail.
Lucent: 29.002 is not referenced in the stage 2
Status: **REJECTED.**

7.11.2 GSMA

NP-030932 **LS on DNS Top Level Domains used in 3GPP TS 23.003; GSMA IREQ**
Comments: Reply LS to GSMA IREQ (N4-031037)

Status: **NOTED.**

NP-030876 **Changes to enable the GSMA root DNS architecture; Vodafone**
CR: **23.003-074 (Rel-5)**
Comments: Lucent: RAN 3 has dealt with 4 digit MNCs(?) Is this covered?
These domains are more network internal and are not connected to Internet
The problems which are highlighted by IETF does not exists.
Response LS to GSMA, copy to CN1 (**N4-031037**)
Status: **REVISED to N4-031036**

NP-031036 **Changes to enable the GSMA root DNS architecture; Vodafone**
CR: **23.003-074r1 (Rel-5)**
Comments: Ericsson can accept the CR in this meeting. They will study the CR at home. They would like to have right to reject CR in CN#21 plenary meeting.
Status: **AGREED**

NP-031037 **LS on DNS domains used in 3GPP TS 23.003; Vodafone**
Comments: *LS will send to GSMA IREQ after CN#21 if CR 23.003-074r1 is approved.*
Status: **APPROVED**

8 UMTS Release 4 & Release 99 maintenance

8.1 GPRS

NP-030774 **LS reply on sending the SGSNs MNC and MCC to the GGSN and service node [S5-034449], SA5**
Comments: Reply LS to SA5 (N4-031013)
CN4 can do changes on Rel-6
More information is needed by SA2
Status: **NOTED.**

NP-031013 **LS reply on sending the SGSNs MNC and MCC to the GGSN and service node; Nortel**
Comments:
Status: **APPROVED**

NP-030808 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-432 (Rel-4)**
Comments:
Status: **AGREED.**

NP-030809 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-433 (Rel-5)**
Comments:
Status: **AGREED as a mirror CR**

NP-030810 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-434 (Rel-6)**
Comments:
Status: **AGREED as a mirror CR.**

NP-030816 **Correction of incorrect reference; Lucent**
CR: **29.060-435 (R99)**
Comments:
Status: **AGREED.**

NP-030857 **Discussion paper on GTP usage of UDP Source and Destination port; Ericsson**
Comments: Other companies couldn't agree
Status: **NOTED.**

NP-030858 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-439 (R99)**
Comments:
Status: **WITHDRAWN.**

NP-030859 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-440 (Rel-4)**
Comments:
Status: **WITHDRAWN.**

NP-030860 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-441 (Rel-5)**
Comments:
Status: **WITHDRAWN.**

NP-030861 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-442 (Rel-6)**
Comments:
Status: **WITHDRAWN.**

NP-030862 **Clarification on Request and Response messages w.r.t. protocol error handling and port allocation; Ericsson**
CR: **29.060-443 (Rel-6)**
Comments:
Status: **WITHDRAWN before meeting**

NP-030940 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-446 (Rel-4)**
Comments: Lucent: Seems this is not an essential correction.
Ericsson can't accept the changes in Rel-4 or Rel-5.
Meeting can agree changes on Rel-6.
Status: **WITHDRAWN**

NP-030941 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-447 (Rel-5)**
Comments:
Status: **WITHDRAWN**

NP-030942 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448 (Rel-6)**
Comments: Small editorial corrections were made.
Status: **REVISED to N4-031014**

⇓ REVISED ⇓

NP-031014 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448r1 (Rel-6)**
Comments: Small editorial corrections were made.
Status: **REVISED to N4-031016**

⇓ REVISED ⇓

NP-031016 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448r2 (Rel-6)**
Comments:
Status: **AGREED**

NP-030943 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-449 (Rel-4)**
Comments: Lucent: Seems this is not an essential correction.

Meeting can agree changes on Rel-6.
Status: **WITHDRAWN**

NP-030944 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-450 (Rel-5)**
Comments:
Status: **WITHDRAWN**

NP-030945 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-451 (Rel-6)**
Comments: Nokia: This case is not needed to describe in 29.060. It's already described in 29.061 (Ga interface).
Huawei: GGSN behaviour is not clearly described 29.060.
Nortel: If we want to describe the behavior of GSN, 23.060 is the right place.
There wasn't support from other companies for CR
Huawei will continue discussion on CN4 email explorer.
Status: **POSTPONED to CN4#21**

8.2 Bearer independent architecture

No documents in this meeting

8.3 TrFO/Codec control

NP-030753 **LS on future codecs with same SDU format as existing codecs [NP-030310]; CN plenary**
Comments:
Status: **NOTED**

NP-030753 **Reply LS on future codecs with same SDU format as existing codecs [S4-030573]; SA4**
Comments:
Status: **NOTED**

NP-030871 **Clarification on codec modification; Siemens**
CR: **23.153-062**
Comments:
Status: **REVISED to N4-031032**

⇓ REVISED ⇓

NP-031032 **Clarification on codec modification; Siemens**
CR: **23.153-062r1**
Comments:
Status: **AGREED**

NP-030872 **Clarification on codec modification; Siemens**
CR: **23.153-063**
Comments:
Status: **REVISED to N4-031032**

⇓ REVISED ⇓

NP-031033 **Clarification on codec modification; Siemens**
CR: **23.153-063r1**
Comments:

Status: AGREED

NP-030873 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-064
Comments:
Status: REVISED to N4-030948

⇓ REVISED ⇓

NP-030948 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-064r1
Comments:
Status: WITHDRAWN

NP-030874 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-065
Comments:
Status: REVISED to N4-030949

⇓ REVISED ⇓

NP-030949 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-065r1
Comments:
Status: WITHDRAWN

NP-030913 Clarification of IuUP Initialisation during codec modification; Nokia
CR: 23.153-066
Comments:
Status: REVISED to N4-031034

⇓ REVISED ⇓

NP-031034 Clarification of IuUP Initialisation during codec modification; Nokia, Ericsson, Lucent, Siemens
CR: 23.153-066r1
Comments:
Status: AGREED

NP-030914 Clarification of IuUP Initialisation during codec modification; Nokia
CR: 23.153-067
Comments:
Status: REVISED to N4-031034

⇓ REVISED ⇓

NP-031035 Clarification of IuUP Initialisation during codec modification; Nokia, Ericsson, Lucent, Siemens
CR: 23.153-067r1
Comments:
Status: AGREED

8.4 Location Services

No documents in this meeting

8.5 Any Other Business for Release 4 or Release 99

8.5.1 MAP specification

NP-030923 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-582r1 (Rel-4)**

Comments: Vodafone: Added text in chapter 5.2.2 is not needed.

Agreed by meeting

Status: **REVISED to N4-031041**

NP-031041 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-582r2 (Rel-4)**

Comments:

Status: **AGREED without presentation**

NP-031042 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-583r2 (Rel-5)**

Comments:

Status: **AGREED without presentation**

NP-031043 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-584r2 (Rel-6)**

Comments:

Status: **AGREED without presentation**

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9 GSM maintenance

NP-030880 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A059 (R96)**

Comments: Nortel Networks: Consequences if not approved should be proved.

Status: **REVISED to N4-031044**

⇓ REVISED ⇓

NP-031044 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A059r1 (R96)**

Comments: Nortel Networks: Consequences if not approved should be proved.

Status: **AGREED without presentation**

NP-030881 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A060 (R97)**

Comments: This is a mirror CR.

Status: **REVISED to N4-031045**

⇓ REVISED ⇓

NP-031045 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A060r1 (R97)**

Comments:

Status: **AGREED as mirror CR**

NP-030882 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A061 (R98)**

Comments: This is a mirror CR.

Status: **REVISED to N4-031046**

⇓ REVISED ⇓

NP-031046 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A061r1 (R98)**

Comments:

Status: **AGREED as mirror CR**

NP-030883 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-070 (R99)**

Comments:

Status: **AGREED as mirror CR**

NP-030884 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-070 (Rel-4)**

Comments:

Status: **AGREED as mirror CR**

NP-030885 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-071 (Rel-5)**

Comments:

Status: **AGREED as mirror CR**

NP-030886 **Correction of encoding description of Group-Id; Nortel Networks**

CR: **09.02-A337 (R96)**

Comments:

Status: **REVISED to N4-031047**

⇓ REVISED ⇓

NP-031047 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A337r1 (R96)
Comments:
Status: AGREED without presentation

NP-030887 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A338 (R97)
Comments:
Status: REVISED to N4-031048

⇓ REVISED ⇓

NP-031048 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A338r1 (R97)
Comments:
Status: AGREED without presentation

NP-030888 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A339 (R98)
Comments:
Status: REVISED to N4-031049

⇓ REVISED ⇓

NP-031049 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A339r1 (R98)
Comments:
Status: AGREED without presentation

NP-030889 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-661 (R99)
Comments:
Status: REVISED to N4-031050

⇓ REVISED ⇓

NP-031050 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-661r1 (R99)
Comments:
Status: AGREED without presentation

NP-030890 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-662 (Rel-4)
Comments:
Status: REVISED to N4-031051

⇓ REVISED ⇓

NP-031051 Correction of encoding description of Group-Id; Nortel Networks

CR: **29.002-662r1 (Rel-4)**
Comments:
Status: **AGREED without presentation**

NP-030891 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-663 (Rel-5)**
Comments:
Status: **REVISED to N4-031052**

⇓ REVISED ⇓

NP-031052 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-663r1 (Rel-5)**
Comments:
Status: **AGREED without presentation**

NP-030892 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-664 (Rel-6)**
Comments:
Status: **REVISED to N4-031053**

⇓ REVISED ⇓

NP-031053 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-664r1 (Rel-6)**
Comments:
Status: **AGREED without presentation**

10 AOB

11 Update of the Work Plan

Work Plan will be updated after meeting by MCC support and chairman

12 Future meetings

NP-030741 **Future meetings; Nortel Networks**
Comments: The meeting decided: An additional meeting is not needed at this point.
Status: **NOTED**

Comments: The PCG has decided that in order to reduce cost, there will be a restriction on the amount of MCC support provided to 3GPP working groups.
The plan is to have one MCC supported WG meeting in between each pair of plenary meetings.
Any additional WG meeting will not have the guarantee of MCC support.
Working groups can request exceptional MCC support for additional WG meetings from the PCG (via Stephen Hayes).
There was also support to leave at least 2 weeks between WG meetings and the Plenary.

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN#21	OR	17 - 19 Sep 2003	Frankfurt	DE

3GPPCN1 - CN4 co-located meetings	WG	27 - 31 Oct 2003	Bangkok	Thailand
3GPPCN#22	OR	10 - 12 Dec 2003	Maui, Hawaii	USA
3GPPCN1 - CN4 co-located meetings	WG	16 - 20 Feb 2004	New York/Atlanta ??	USA???
3GPPCN#23	OR	10 - 12 Mar 2004	TBC	USA
3GPPCN1 - CN4 co-located meetings	WG	10 - 14 May 2004	Dubrovnik	Croatia
3GPPCN#24	OR	2 - 4 Jun 2004	KOREA	South Korea
3GPPCN1 - CN4 co-located meetings	WG	16 - 20 Aug 2004	Sophia Antipolis	France
3GPPCN#25	OR	8 - 10 Sep 2004	US	USA
3GPPCN1 - CN4 co-located meetings	WG	15 - 19 Nov 2004	Asia??	ASIA???
3GPPCN#26	OR	8 - 10 Dec 2004	Athens	Greece

13 Check of approved output documents

NP-030738 **Output documents; Chairman**

Comments: After meeting Vodafone delegate noticed that N4-030744 and N4-030745 were missing from approved CRs list. MCC support added these 2 documents on the list.

Status: **APPROVED**

14 Closing of the meeting (15:30 Friday)

Meeting was closed exactly 15:30.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
N4-031013	LS on sending the SGSNs MNC and MCC to the GGSN and service node	SA5, SA2	SA1, CN3, T2, GSMA BARG CPWP	
N4-031020	LS to SA1 on GUP work in CN4	SA1	SA2	
N4-031037	THIS LS will send after CN#21 if a one CR is approved in CN plenary			
N4-031039	Reply to LS on Emergency Services Routing Based on Interim Position	SA2, T1P1	SA1	N4-031038
N4-031061	LS Response on Stage 3 level specification directions for support for subscriber certificate work item	SA3, CN1		
N4-031062	LS on Clarification on Presence Service Matters	SA1, SA2	CN2	
N4-031063	Reply LS on P-TMSI signature validation functionality in R99	SA2	CN1	

A.2 New TSs /TRs Approved (to be placed under change control)

TDoc #	Type	Spec	Tdoc Title	N_Versio	Source
N4-030977	3GPP TS	29.234	3GPP System to WLAN Interworking; stage 3 description	1.0.0	Editor

A.3 New / Revised Work Items Approved

Tdoc	Tdoc Title	Source	Rel
N4-030906	Support for subscriber certificates, stage 3	Nokia	Rel-6

A.4 Approved CRs

Tdoc N4-03	Title	Source	Result
0744	CR 29.002 638 Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	Approved
0745	CR 29.002 639 Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	Approved
0746	CR 29.002 640 Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	Approved
0747	CR 29.002 641 Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	Approved
0748	CR 29.002 642 Removal of SIWF description	Vodafone	Approved
0749	CR 29.002 643 Deletion of redundant Annex D	Vodafone	Approved
0785	CR 29.002 644 Removal of tables in section 7.6	Nortel Networks	Approved
0804	CR 29.002 596 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0805	CR 29.002 597 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0806	CR 29.002 xxx Correction of References	Siemens	Approved
0808	CR 29.060 432 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0809	CR 29.060 433 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0810	CR 29.060 434 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0814	CR 23.012 012 Correction of misaligned signal names between VLR and PVLR	Vodafone	Approved
0815	CR 29.002 653 Correction of wrong AC name in the table in 17.1.6	Vodafone	Approved
0816	CR 29.060 435 Correction of incorrect reference	Lucent Technologies	Approved
0824	CR 29.002 654 New LCS Service Types	Siemens	Approved
0826	CR 29.002 656 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0827	CR 24.080 029 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0828	CR 29.002 657 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0831	CR 29.228 052 Sharing public identities across multiple UEs	Nokia	Approved
0845	CR 23.018 128 Corrections to "Early UE" handling	Vodafone	Approved
0866	CR 29.010 091 Addition of Early UE specific cause code mapping	Nokia	Approved
0883	CR 23.003 070 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
0884	CR 23.003 071 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
0885	CR 23.003 072 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved

0921	CR 29.002 646 UESBI format	Siemens	Approved
0922	CR 29.002 647 UESBI format	Siemens	Approved
0951	CR 29.002 xxx SS-Barring Category	Siemens	Approved
0952	CR 29.002 636 Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	Approved
0953	CR 29.002 637 r1 Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	Approved
0959	CR 23.018 132 Removal of SIWF material	Vodafone	approved
0978	CR 23.079 025 Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	Approved
0984	CR 23.066 026 Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	Approved
1068	CR 29.002 615r2 Incorrect Charging With MNP	LM Ericsson	Approved
1069	CR 29.002 616 r2 Incorrect Charging With MNP	LM Ericsson	Approved
0987	CR 23.066 024 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0991	CR 29.228 041r1 Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	Approved
0995	CR 29.228 051r2 Mistakes in the XML schema of 29.228-540	Orange	Approved
0997	CR 29.228 042r1 Error in S-CSCF Assignment Type	Siemens	Approved
0998	CR 28.228 055r1 Extensibility of the public identity structure in the XML schema	Nokia	Approved
0999	CR 29.229 022r1 Correction on the PPR command code	Ericsson	Approved
1000	CR 29.328 032r2 Incorrect message flow in 29.328	Orange	Approved
1002	CR 29.328 035 Mistakes in the XML schema of 29.328-540	Orange	Approved
1003	CR 29.060 454 Change of Early UE feature to PUESBINE	Vodafone	Approved
1004	CR 29.060 455 Change of Early UE feature to PUESBINE	Vodafone	Approved
1005	CR 23.012 013r1 Corrections to "Early UE" handling	Vodafone	Approved
1006	CR 29.002 650 Add SGSN, GGSN and GMLC to network resource parameter	NEC	Approved
1011	CR 29.060 436 Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	Approved
1016	CR 29.060 xxx GTP Cause Modification	Huawei Technologies Co., Ltd.	Approved
1032	CR 23.153 062 Clarification on codec modification	Siemens	Approved
1033	CR 23.153 063 Clarification on codec modification	Siemens	Approved
1034	CR 23.153 066 Clarification of IuUP Initialisation during codec modification	Nokia, Lucent, Siemens, Ericsson	Approved
1035	CR 23.153 067 Clarification of IuUP Initialisation during codec modification	Nokia, Lucent, Siemens, Ericsson	Approved
1036	CR 23.003 074 Changes to enable the GSMA root DNS architecture	Vodafone	Approved

1038	CR 29.002 645 Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	Approved
1041	CR 29.002 582r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1042	CR 29.002 583r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1043	CR 29.002 584r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1044	CR 03.03 A059 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	Approved
1045	CR 03.03 A060 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
1046	CR 03.03 A061 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
1047	CR 09.02 A337 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1048	CR 09.02 A338 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1049	CR 09.02 A339 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1050	CR 29.002 661 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1051	CR 29.002 662 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1052	CR 29.002 663 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1053	CR 29.002 664 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1054	CR 29.060 453r2 GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	Approved
1055	CR 23.079 026 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	Approved
1056	CR 29.002 659 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	Approved
1057	CR 29.002 660 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	approved
1058	CR 29.002 613 SCUDIF HLR Interrogation	LM Ericsson	Approved
1059	CR 29.002 614 SCUDIF HLR Interrogation	LM Ericsson	Approved
1060	CR 23.003 073r2 PSI definition	Ericsson	Approved
1064	CR 29.010 092r1 Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	Approved
1066	CR 23.008 122 Addition of list of authorized visited network identifiers	Orange	Approved
1067	CR 29.328 033 Correction of Sh data definition in Annex C and D.	HP, Siemens	Approved

ANNEX B Tdoc List with Status

TDoc #	Age	Type	Title	Source	WI	CR	R	C	Spec	Rel	Versio	Revision	Conclusion
N4-030731	1	Agenda	Preliminary agenda for CN4 #20	CN4 chairman									Revised to N4-030732
N4-030732	1	Agenda	Detailed agenda & time plan for CN4 #20: status at document deadline	CN4 chairman									Revised to N4-030733
N4-030733	1	Agenda	Detailed agenda & time plan for CN4 #20: status on eve of meeting	CN4 chairman									Approved
N4-030734	2	DAD	Proposed allocation of documents to agenda items for CN4 #20: status at document deadline	CN4 chairman									Revised to N4-030735
N4-030735	2	DAD	Proposed allocation of documents to agenda items for CN4 #20: status on eve of meeting	CN4 chairman									Approved
N4-030736		DAD	Proposed allocation of documents to agenda items for joint session with CN2 on CAMEL	CN4 chairman									Approved
N4-030737	3.2	Report	Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND	CN4 chairman									Noted
N4-030738	13	Info	List of approved output documents	CN4 chairman									Approved
N4-030739	3.1	Report	CN4#19 meeting report San Diego, USA	MCC									Approved
N4-030740	10	WP	Work Plan	MCC									Noted
N4-030741	11	Info	Future meetings	MCC									Noted
N4-030742	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636		F	29.002	5	5.6.0		Revised to N4-030822
N4-030743	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	637		A	29.002	6	6.2.0		Revised to N4-030953
N4-030744	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	638		F	29.002	5	5.6.0		Revised
N4-030745	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	639		A	29.002	6	6.2.0		Revised
N4-030746	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	TEI_5	640		F	29.002	5	5.6.0		Agreed
N4-030747	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	TEI_5	641		A	29.002	6	6.2.0		Agreed
N4-030748	6.9	CR	Removal of SIWF description	Vodafone	TEI_6	642		F	29.002	6	6.2.0		Agreed

N4-030749	6.9	CR	Deletion of redundant Annex D	Vodafone	TEI_6	643		D	29.002	6	6.2.0		Agreed
N4-030750	6.5	CR	Enhancements for the Partial Implementation for Enhanced Dialled Services	Alcatel	EDCAME L	525		B	29.002	Rel-6	6.2.0		Noted
N4-030751	4 7.9	Input LS	LS on Stage 3 work for Early UE handling	GERAN2	Vodafone	to:				Rel-5		G2-030437	Noted
N4-030752	4 7.7	Input LS	LS on MNP	CN	Nortel Networks	to:				Rel-5		NP-030301	Noted
N4-030753	4 8.3	Input LS	LS on future codecs with same SDU format as existing codecs	CN	Siemens	cc:				Rel-4		NP-030310	Noted
N4-030754	4	Input LS	LS on Core Network Provision of separate flows for P2P and P2M radio Transmission and Minimum UE Capability Required for Supporting MBMS	RAN1	Vodafone	cc:				Rel-6		R1-030630	Noted
N4-030755	4	Input LS	Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission	RAN2	Nortel Networks	cc:				Rel-6		R2-0301483	Noted
N4-030756	4 8.4	Input LS	Liaison Statement on “Emergency Services Routing Based on Interim Position”	SA1	Nortel Networks	to:				R99		S1-030832	Noted
N4-030757	4 7.6	Input LS	LS on CAMEL interactions with SCUDIF	SA1	NTT DoCoMo	to:				Rel-5		S1-030964	Noted
N4-030758	4 6.1	Input LS	LS on SMS/MMS Interworking from WLANs	SA1	Interdigital	cc:				Rel-6		S1-030967	Noted
N4-030759	4	Input LS	LS on CS interconnect charging for multi-media services (Video telephony)	SA1	Vodafone	cc:				Rel-6		S1-030979	Noted
N4-030760	6.2	Input LS	LS on usage of GUP reference points	SA2	Nokia	cc:				Rel-6		S2-032679	Noted
N4-030761	4	Input LS	LS on Security issues regarding multiple PDP contexts in GPRS	SA2	Vodafone	cc				Rel-6		S2-032680	Noted
N4-030762	4 7.9	Input LS	LS on inconsistency between UESBI-Iu definition in MAP and RANAP	SA2	Vodafone	to:				Rel-5		S2-032713	Noted
N4-030763	4 7.9	Input LS	LS on minor issues identified by SA 2 during a review of the stage 3 CRs for the Early UE feature	SA2	Vodafone	to:				Rel-5		S2-032714	Noted
N4-030764	4	Input LS	LS on modification of the LDR event types	SA2	Siemens	cc:				Rel-5		S2-032722	Noted
N4-030765	4 7.10	Input LS	LS on the length of “LCS RequestorID” and “LCS Codeword”	SA2	Ericsson	to:				Rel-5		S2-032725	Noted
N4-030766	4 6.1	Input LS	LS on 802.11i / WPA and RADIUS to Diameter co-existence analysis and recommendations for WLAN interworking	SA2	Ericsson	to:				Rel-6		S2-032727	Noted
N4-030767	4	Input LS	IPv4 and IPv6 form of Charging Gateway Address	SA2	Alcatel	to:				Rel-5		S2-032738	Noted

N4-030768	4	Input LS	LS Response to "Inclusion of IMS Signalling Indicator in S-CDR"	SA2	Ericsson/ Vodafone	cc:				Rel-5		S2-032741	Noted
N4-030769	4	Input LS	Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission	SA4	NTT DoCoMo	cc:				Rel-5		S4-030558	Noted
N4-030770	4 8.3	Input LS	Reply to LS on future codecs with same SDU format as existing codecs	SA4	Nokia	to:				Rel-4		S4-030573	Noted
N4-030771	4	Input LS	LS on usage of GUP reference points	SA5	T-Mobile	cc:				Rel-6		S5-032227r5	Noted
N4-030772	4	Input LS	LS on "Inclusion of IMS Signalling Indicator in S-CDR"	SA5	Nortel Networks	to:				Rel-5		S5-034312	Noted
N4-030773	4	Input LS	LS on possible re-organisation of 3GPP charging specification work	SA5	Motorola/ T-Mobil/ Vodafone	to:				Rel-6		S5-034444	Noted
N4-030774	4 8.1	Input LS	LS reply on sending the SGSNs MNC and MCC to the GGSN and service node	SA5	Nortel Networks	to:				R97		S5-034449	Noted
N4-030775	4	Input LS	LS reply for R99 and following on video telephony	SA5	Nokia	cc:				R99		S5-034450	Noted
N4-030776	4 6.1	Input LS	Re: LS on SMS/MMS Interworking from WLANs	T2	Nokia	cc:				Rel-6		T2-030316	Noted
N4-030777	4	Input LS	LS - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks	T2	Teleca	cc:						T2-030364	Noted
N4-030778	4	Input LS	Liaison to 3GPP from AT-F - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks	AT-F	Skanova	to:						ETSI/AT(03)TD16R00	Noted
N4-030779	4	Input LS	EC Recommendation and explanatory note on the requirements for location information in emergency calls	The European Comission		cc:						IP/03/1122	Noted
N4-030780	6.6	DISC	GTP Path Failure Recovery	Nortel Networks									Noted
N4-030781	6.6	CR	Enhancement of Recovery IE to reduce number of dangling PDP Contexts	Nortel Networks	GTP Enhancements	431		C	29.060	6	6.1.0		Withdrawn
N4-030782	6.6	CR	Change of Restart Counter definition for enhanced GTP recovery procedures	Nortel Networks	GTP Enhancements	008		C	23.007	6	5.0.0		Withdrawn
N4-030783	7.7	DISC	MNP/ CAMEL Pre-Paid MNP-SRF solution	Nortel Networks, Ericsson									Noted
N4-030784	7.7	CR	Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	MNP	026		F	23.066	5	5.1.0		Revise to N4-03984
N4-030785	6.9	CR	Removal of tables in section 7.6	Nortel Networks	TEI6	644		D	29.002	6	6.2.0		Agreed
N4-030786	6.10	CR	Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	LCS2	645		B	29.002	6	6.2.0		Revised to N4-031038

N4-030787	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122		F	23.008	5	5.5.0		Revised to N4-030994
N4-030788	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032		F	29.328	5	5.4.0		Revised to N4-030821
N4-030789	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051		F	29.228	5	5.4.0		Revised to N4-030963
N4-030790	6.1	DISC	TS 29.234, 3GPP AAA Proxy Translation Agent detailed behaviour	Nokia	WLAN								Approved
N4-030791	6.1	DISC	TS 29.234, Wr Procedure Description	Nokia	WLAN								Approved
N4-030792	6.1	DISC	TS 29.234, 3GPP AAA Server behaviour when Interworking with RADIUS/DIameter clients	Nokia	WLAN								Approved
N4-030793	6.1	DISC	TS 29.234, Ws Procedure Description	Nokia	WLAN								Approved
N4-030794	6.1	DISC	TS 29.234, Wx based on Cx	Nokia	WLAN								Withdrawn
N4-030795	6.1	DISC	TS 29.234, Wx message contents	Nokia	WLAN								Withdrawn
N4-030796	6.1	DISC	TS 29.234, Wx diagrams flows	Nokia	WLAN								Withdrawn
N4-030797	6.3	CR	Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	PRESNC	041	1	B	29.228	6	5.4.0		Revised to N4-030991
N4-030798	6.3	CR	Introduction of Presence Stage 3 (Ph) to the Sh interface	Lucent Technologies	PRESNC	026	1	B	29.328	6	5.4.0		Postponed to next meeting
N4-030799	7.11	CR	MSC/VLR Transparency for Call Forwarding Supplementary Services	Lucent Technologies	TEI5	015		F	23.082	5	5.0.0		Rejected
N4-030800	7.9	CR	UESBI format	Siemens	LATE UE	646		F	29.002	Rel-5	5.6.2		Revised to N4-030921
N4-030801	7.9	CR	UESBI format	Siemens	LATE UE	647		A	29.002	Rel-6	6.2.0		Revised to N4-030922
N4-030802	6.9	CR	Message Segmentation Mechanisms	Siemens	TEI6	648		D	29.002	Rel-6	6.2.0		Postponed to next meeting
N4-030803	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	024	-	B	23.066	Rel-5	5.0.0		Revised to N4-030987
N4-030804	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	596	1	B	29.002	Rel-5	5.6.2		Agreed
N4-030805	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	597	1	B	29.002	Rel-6	6.2.0		Agreed

N4-030806	6.9	CR	Correction of References	Siemens	TEI6	649		F	29.002	Rel-6	6.2.0		Agreed
N4-030807	7.1.1	CR	Error in S-CSCF Assignment Type	Siemens	IMS-CCR	042	2	F	29.228	Rel-5	5.4.0		Revised to N4-030997
N4-030808	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	432		**F**	29.060	4	4.8.0		Agreed
N4-030809	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	433		**A**	29.060	5	5.8.0		Agreed
N4-030810	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	434		A	29.060	6	6.1.0		Agreed
N4-030811	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033		F	29.328	5	5.4.0		Revised to N4-031001
N4-030812	7.8	CR	Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message.	HP	TEI5	651		F	29.002	5	5.6.2		Postponed to CN4#21
N4-030813	7.8	CR	Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message.	HP	TEI6	652		F	29.002	6	6.4.0		Postponed to CN4#21
N4-030814	7.8	CR	Correction of misaligned signal names between VLR and PVLR	Vodafone	TEI5	012		F	23.012	5	5.0.0		Agreed
N4-030815	6.9	CR	Correction of wrong AC name in the table in 17.1.6	Vodafone	TEI6	653		D	29.002	6	6.2.0		Agreed
N4-030816	8.1	CR	Correction of incorrect reference	Lucent Technologies	TEI	435		F	29.060	R99	3.17.0		Agreed
N4-030817	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	GTP Enhancements	436		F	29.060	6	6.1.0		Revised to N4-031011
N4-030818	6.10	CR	Positioning Data for UTRAN LCS	Nortel Networks, AWS	LCS2	655		F	29.002	6	6.2.0		Revised to N4-031040
N4-030819	6.11	CR	Add SGSN, GGSN and GMLC to network resource parameter	NEC	TEI-6	650		F	29.002	R6	6.2.0		Revised to N4-031006
N4-030820													
N4-030821	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032	1	F	29.328	5	5.4.0	N4-030788	Revised to N4-031000
N4-030822	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636	1	F	29.002	5	5.6.0		Revised to N4-030952
N4-030823	7.1.1	CR	XML schema correction	Siemens	IMS-CCR	034		F	29.328	Rel-5	5.4.0		Withdrawn
N4-030824	6.10	CR	New LCS Service Types	Siemens	LCS	654		B	29.002	Rel-6	6.2.0		Agreed

N4-030825	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035		F	29.328	5	5.4.0		Revised to N4-030964
N4-030826	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	656		F	29.002	5	5.6.2		Agreed
N4-030827	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	029		F	24.080	5	5.3.0		Agreed
N4-030828	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	657		A	29.002	6	6.2.0		Agreed
N4-030829	7.2	CR	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	CAMEL4	025	3	F	23.079	5	5.2.0		Revised to N4-030978
N4-030830	6.4	DISC	Version control in Cx and Sh	Nokia									Postponed
N4-030831	6.4.1	CR	Sharing public identities across multiple UEs	Nokia	IMS2-CCR	052		B	29.228	6	5.4.0		Agreed
N4-030832	6.4.2	CR	Dh interface	Nokia	IMS2-CCR	036		B	29.328	6	5.4.0		Postponed to CN4#21
N4-030833	6.4	CR	Originating S-CSCF name	Nokia	IMS2-CCR	123		**B**	23.008	6	5.5.0		Revised to N4-030993
N4-030834	6.4.1	CR	Originating S-CSCF name	Nokia	IMS2-CCR	053		B	29.228	6	5.4.0		Postponed to CN4#21
N4-030835	6.4.1	CR	Originating S-CSCF name	Nokia	IMS2-CCR	020		B	29.229	6	5.4.0		Postponed to CN4#21
N4-030836	6.4.2	CR	Originating S-CSCF name	Nokia	IMS2-CCR	037		B	29.328	6	5.4.0		Postponed to CN4#21
N4-030837	7.1.1	CR	The S-CSCF name needs to be checked always in MAR	Nokia	IMS-CCR	054		F	28.228	5	5.4.0		Revised to N4-030954
N4-030838	7.1.1	CR	The S-CSCF name needs to be checked always in MAR and SAR	Nokia	IMS-CCR	021		F	29.229	5	5.4.0		Postponed
N4-030839	7.1.1	CR	Extensibility of the public identity structure in the XML schema	Nokia	IMS-CCR	055		F	28.228	5	5.4.0		Revised to N4-030998
N4-030840	6.5	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAME L	553	1	B	23.078	Rel-6	5.4.0		Noted
N4-030841 N2-030319	6.5	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAME L	126		B	23.018	Rel-6	5.7.0		Noted
N4-030842 N2-030377	7.6	CR	One step HLR enquiry for SCUDIF	Nokia	SCUDIF	127		F	23.018	Rel5	5.7.0		Withdrawn
N4-030843	7.6	CR	One step HLR enquiry for SCUDIF – CSI criteria	Nokia	SCUDIF			B	23.078	Rel-5	5.4.0		Withdrawn
N4-030844	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	013		F	23.012	5	5.1.0		Revised to N4-031005
N4-030845	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	128		F	23.018	5	5.7.0		Agreed

N4-030846	7.6	DISC	Should SCUDIF have a single basic service code?	Vodafone									Noted
N4-030847	6.3	CR	Assingment of SSN value for Presence Network Agent	NTT DoCoMo	Presenc	069		B	23.003	R6	5.6.0		Postponed to CN4#21
N4-030848	6.3	CR	Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info	NTT DoCoMo	Presenc	658		B	29.002	R6	6.2.0		Revised to N4-030960
N4-030849	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130		B	23.018	R6	5.7.0		Revised to N4-030961
N4-030850	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660		A	29.002	R6	6.2.0		Revised to N4-031017
N4-030851	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659		F	29.002	R5	5.6.2		Revised to N4-031007
N4-030852	7.6	CR	Repeat subscription checking regarding SCUDIF	NTT DoCOMo	SCUDIF	129		F	23.018	R5	5.7.0		Revised to N4-031008
N4-030853 N2-030383	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0		Revised to N4-030955
N4-030854	7.3	DISC	Correction to reduce number of hanging PDP Contexts in GGSN	LM Ericsson	-			-	29.060	-	-		Noted
N4-030855	7.3	CR	Introduction of IMSI in the Delete PDP Context Request message	LM Ericsson	TEI	437		F	29.060	5	5.6.0		Withdrawn
N4-030856	7.3	CR	Introduction of IMSI in the Delete PDP Context Request message	LM Ericsson	TEI	438		A	29.060	6	6.1.0		Withdrawn
N4-030857	8.1	DISC	Discussion paper on GTP usage of UDP Source and Destination port	LM Ericsson	-			-	29.060	-	-		Noted
N4-030858	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	439		F	29.060	99	3.17.0		Withdrawn
N4-030859	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	440		A	29.060	4	4.8.0		Withdrawn
N4-030860	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	441		A	29.060	5	5.6.0		Withdrawn
N4-030861	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	442		A	29.060	6	6.1.0		Withdrawn

N4-030862	8.1	CR	Clarification on Request and Response messages w.r.t. protocol error handling and port allocation	LM Ericsson	TEI	443		F	29.060	6	6.1.0		Withdrawn
N4-030863	6.11.1	Disc & approval	Introduction to MBMS	3	MBMS								Agreed
N4-030864	6.11.1	WID	MBMS	3									Endorsed by CN4
N4-030865	6.11.1.	CR	Overview changes to 29.060 for MBMS	3	MBMS	444			29.060	6	6.1.0		Postponed to Next meeting
N4-030866	7.9	CR	Addition of Early UE specific cause code mapping	Nokia	LATE_UE	091		F	29.010	Rel-5	5.3.1		Agreed
N4-030867	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092		F	29.010	Rel-6	5.3.1		Revised to N4-030992
N4-030868	7.1.1	CR	Correction on the PPR command code	Ericsson	IMS	022		F	29.229	R5	5.4.0		Revised to N4-030999
N4-030869	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0		Revised to N4-030996
N4-030870	6.4.1	INFO	Status of DMA IETF draft	Ericsson									Noted
N4-030871	8.3	CR	Clarification on codec modification	Siemens	OoBTC	062		F	23.153	4	4.8.0		Revised to N4-031032
N4-030872	8.3	CR	Clarification on codec modification	Siemens	OoBTC	063		A	23.153	5	5.5.0		Revised to N4-031033
N4-030873	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	064		F	23.153	4	4.8.0		Revised to N4-030948
N4-030874	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	065		A	23.153	5	5.5.0		Revised to N4-030949
N4-030875	6.9	CR	Correction of serviceTerminationContext to immediateTerminationContext	Vodafone	TEI_6	665		D	29.002	6	6.1.0		Withdrawn
N4-030876	7.11	CR	Changes to enable the GSMA root DNS architecture	Vodafone	TEI_5	074		F	23.003	5	5.6.0		Revised to N4-031036
N4-030877	6.9	CR	Optionality of the ProcessUnstructuredSS-Request Operation Result	Lucent Technologies	TEI6			F	29.002	6	6.2.0		Withdrawn
N4-030878	6.6	DISC	GTP Diagnostic Information	Nortel Networks, Vodafone									Noted
N4-030879	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks, Vodafone	GTP Enhancements	392	2	F	29.060	6	6.1.0		Withdrawn
N4-030880	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	ASCI	A059		F	03.03	96	5.4.1		Revised to N4-031044
N4-030881	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A060		A	03.03	97	6.7.0		Revised to N4-031045

N4-030882	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A061		A	03.03	98	7.7.0		Revised to N4-031046
N4-030883	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	070		A	23.003	99	3.12.0		Agreed
N4-030884	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	071		A	23.003	4	4.6.0		Agreed
N4-030885	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	072		A	23.003	5	5.6.0		Agreed
N4-030886	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A337		F	09.02	96	5.18.0		Revised to N4-031047
N4-030887	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A338		A	09.02	97	6.13.0		Revised to N4-031048
N4-030888	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A339		A	09.02	98	7.13.0		Revised to N4-031049
N4-030889	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	661		A	29.002	99	3.17.0		Revised to N4-031050
N4-030890	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	662		A	29.002	4	4.12.0		Revised to N4-031051
N4-030891	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	663		A	29.002	5	5.6.2		Revised to N4-031052
N4-030892	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	664		A	29.002	6	6.2.0		Revised to N4-031053
N4-030893	6.4	DISC	Version Control for IMS	Nortel Networks									Withdrawn
N4-030894	7.7	DISC	SRF Based MNP Charging Solution	LM Ericsson	CAMEL4								Withdrawn
N4-030895	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	1	F	29.002	5	5.6.2		Revised to N4-030985
N4-030896	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	1	A	29.002	6	6.2.0		Revised to N4-030986
N4-030897	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	025	1	F	23.066	5	5.1.0		Withdrawn
N4-030898	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	530	1	F	23.078	5	5.4.0		Noted
N4-030899	11	Meeting Invitation	CN4#21 meetinginvitation - Bangkok, Thailand	MCC									Noted
N4-030900	7.6	DISC	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF								Revised to N4-031021

N4-030901	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	011	1	F	23.172	5	5.1.0		Revised to N4-031022
N4-030902	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	1	F	29.002	5	5.6.2		Revised to N4-031023
N4-030903	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	1	A	29.002	6	6.2.0		Revised to N4-031024
N4-030904	7.6	DISC	CAMEL Interractions For SCUDIF In Release 5	LM Ericsson									Noted
N4-030905	7.6	CR	SCUDIF Impacts to Basic Call	LM Ericsson	SCUDIF	131		F	23.018	5	5.7.0		Withdrawn
N4-030906	5	WID	Support for subscriber certificates, stage 3	Nokia	SEC1-SC								Approved
N4-030907	6.2	DISC	TS 29.240, Main concept	Nokia	GUP								Approved
N4-030908	6.2	DISC	TS 29.240, Profile Schema	Nokia	GUP								Approved
N4-030909	6.2	DISC	TS 29.240, Rp Definition	Nokia	GUP								Email discussion until 26th September
N4-030910	6.2	LS OUT	LS to SA1 on GUP work in CN4	Nokia	GUP								Revised to N4-0301020
N4-030911	6.6	CR	Robust authentication during Attach and RAU	Nokia	TEI6	445		F	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030912	6.7	DISC	TS 29.332, Mandatory IMS packages	Nokia	IMS-CCR-Mn								Revised to N4-030975
N4-030913	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	066		F	23.153	Rel-4	4.8.0		Revised to N4-031034
N4-030914	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	067		F	23.153	Rel-5	5.5.0		Revised to N4-031035
N4-030915	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	068		F	23.153	5	5.5.0		Revised to N4-031027
N4-030916	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	667		F	29.002	5	5.6.2		Revised to N4-031029
N4-030917	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	668		A	29.002	6	6.2.0		Revised to N4-031030
N4-030918	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	069		F	23.153	5	5.5.0		Revised to N4-031028
N4-030919	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	669		F	29.002	5	5.6.2		Revised to N4-030990
N4-030920	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	670		A	29.002	6	6.2.0		Revised to N4-031026
N4-030921	7.9	CR	UESBI format	Siemens	LATE UE	646		F	29.002	Rel-5	5.6.2	N4-030800	Agreed

N4-030922	7.9	CR	UESBI format	Siemens	LATE UE	647		A	29.002	Rel-6	6.2.0	N4-030801	Agreed
N4-030923	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	582	1	F	29.002	Rel-4	4.12.0		Revised to N4-031041
N4-030924	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	583	1	A	29.002	Rel-5	5.6.2		Revised to N4-031042
N4-030925	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	584	1	A	29.002	Rel-6	6.2.0		Revised to N4-031043
N4-030926	4	Input LS	Stage 3 level specification directions for support for subscriber certificate work item	SA3	Nokia	to:				Rel-6		S3-030469	Noted
N4-030927	4	Input LS	LS on new interface names	SA3	Nokia	cc:				Rel-6		S3-030471	Noted
N4-030928	4 6.4.1	Input LS	Reply to LS N4-030722 (=S3-030337) on adapting Cx interface protocols for security purposes	SA3	Siemens	to:				Rel-6		S3-030473	Noted
N4-030929	4	Input LS	LS reply on Rel-6 Subscriber and Equipment Trace impacts to the Core Network	SA5	Nokia	to:				Rel-6		S5-038444	Postponed to CN4#21
N4-030930	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	026		F	23.079	R5	5.2.0		Revised to N4-1054
N4-030931	6.4	DISC	Version Control for Cx/Sh	Ericsson									Postponed to CN4#21
N4-030932	4	Input LS	LS on DNS Top Level Domains used in 3GPP TS 23.003	GSMA IREQ	Vodafone					As earliest as possible		xxx?	Noted
N4-030933	7.6	CR	Repeat subscription checking in MO SCUDIF call	NTT DoCOMo	SCUDIF			F	23.172	R5	5.1.0		Revised to N4-031009
N4-030934	6.1	DISC	TS 29.234, Add HLR and CGF to network element entities	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030935	6.1	DISC	TS 29.234, Addition of D' reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030936	6.1	DISC	TS 29.234, Addition of Wb reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030937	6.1	DISC	TS 29.234, Addition of Wc reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030938	6.1	CR	TS 29.234, Addition of Wf reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn

N4-030939	6.1	CR	TS 29.234, Supplement of Radius based Wr reference point description	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030940	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI4			F	29.060	Rel-4	4.8.0		Withdrawn
N4-030941	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI5			A	29.060	Rel-5	5.6.0		Withdrawn
N4-030942	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6			A	29.060	Rel-6	6.1.0		Revised to N4-031014
N4-030943	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI4			F	29.060	Rel-4	4.8.0		Withdrawn
N4-030944	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI5			A	29.060	Rel-5	5.6.0		Withdrawn
N4-030945	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI6			A	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030946	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI5	452		F	29.060	Rel-5	5.6.0		Withdrawn
N4-030947	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453		A	29.060	Rel-6	6.1.0		Revised to N4-031012
N4-030948	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	064	1	F	23.153	4	4.8.0	N4-030873	Withdrawn
N4-030949	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	065	1	A	23.153	5	5.5.0	N4-030874	Withdrawn
N4-030950	7.6	CR	Supplementary service interaction with SCUDIF calls	NTT DoCoMo	SCUDIF	014		F	23.172	R5	5.1.0		Revised to N4-031010
N4-030951	6.9	CR	SS-Barring Category	Siemens	TEI			D	29.002	Rel-6	6.2.0		Agreed
N4-030952	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636	1	F	29.002	5	5.6.0	N4-030822	Agreed
N4-030953	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	637	1	A	29.002	6	6.2.0	N4-030743	Agreed
N4-030954	7.1.1	CR	The S-CSCF name needs to be checked always in MAR	Nokia	IMS-CCR	054	1	F	28.228	5	5.4.0	N4-030837	Postponed to CN4#21
N4-030955	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0	N4-030853	Revised to N4-031018
N4-030956	4	DISC	CN's view on possible re-organisation of 3GPP charging specification work	CN4 Chairman									Noted
N4-030957	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	638	1	F	29.002	5	5.6.0		Withdrawn

N4-030958	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	639	1	A	29.002	6	6.2.0		Withdrawn
N4-030959	6.11	CR	Removal of SIWF material	Vodafone	TEI_6	132			23.018	6	5.7.0		Agreed
N4-030960	6.3	CR	Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info	NTT DoCoMo	Presenc	658	1	B	29.002	R6	6.2.0	N4-030848	Postponed to CN4#21
N4-030961	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130	1	B	23.018	R6	5.7.0	N4-030848	Revised to N4-031019
N4-030962	4	DISC	Future Location of Work on Charging Standardisation	Nortel Networks									Noted
N4-030963	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051		F	29.228	5	5.4.0	N4-030789	Revised to N4-030995
N4-030964	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035		F	29.328	5	5.4.0	N4-030825	Revised to N4-031002
N4-030965 N1-031091	4	DISC	CN5 Trace presentation on Wednesday 27th	Christian Toche; TSG-SA WG5 SWG-D Chair									Noted
N4-030966	4	Input LS	Reply to Liaison Statement on “Emergency Services Routing Based on Interim Position”	SA2	Nortel Networks	to:				R99		S2-033225	Noted
N4-030967	4	Input LS	LS Response on new interface names	SA2	Siemens	cc:				Rel-6		S2-033235	Noted
N4-030968	4	Input LS	Reply LS on possible re-organisation of 3GPP charging specification work	SA2	Nokia	cc:				Rel-6		S2-033236	Noted
N4-030969	4	Input LS	LS on P-TMSI signature validation functionality in R99	SA2	Nokia	to:				R99		S2-033237	Noted
N4-030970	4	Input LS	Reply LS on “Security issues regarding multiple PDP contexts in GPRS”	SA2	Vodafone	cc:				Rel-6		S2-033240	Noted
N4-030971	4	Input LS	LS response on “LS response CAMEL support for the Presence Service” from CN4	SA2	NTT DoCoMo	to:				Rel-6		S2-033246	Noted
N4-030972	6.11.1	DISC	Introduction of MBMS GTP messages	3	MBMS								Postponed to CN4#21
N4-030973 N4-030384	7.6	CR	Correction to InitialDP for SCUDIF	Ntt DoCoMo, NEC	SCUDIF	620			23.078	Rel-5			Noted
N4-030974	4	Output LS	LS Stage 3 level specification directions for support for subscriber certificate work item	Ericsson									Revised to N4-031061
N4-030975	6.7	DISC	TS 29.332, Mandatory IMS packages	Nokia	IMS-CCR-Mn							N4-030912	Postponed to CN4#21

N4-030976 N2-030386	7.6	CR	Correction to InitialDP for SCUDIF	Ntt DoCoMo, NEC	SCUDIF	330			29.078	Rel-5			Noted
N4-030977	6.1	TS	TS 29.234 V0.2.0	Editor	WLAN								Approved
N4-030978	7.2	CR	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	CAMEL4	025		F	23.079	5	5.2.0		Agreed
N4-030979	4	Input LS	Reply LS on alignment of maximum bit rate for HSDPA in UMTS system	CN1	NEC	to:				Rel-5		N1-031194	Revised to N4-030989
N4-030980	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	672		F	29.002	Rel-5	5.6.2		Postponed to CN4#21
N4-030981	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	673		A	29.002	Rel-6	6.2.0		Postponed to CN4#21
N4-030982	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	454		F	29.060	Rel-5	5.6.0		Postponed to CN4#21
N4-030983	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	455		A	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030984	7.7	CR	Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	MNP	026	1	F	23.066	5	5.1.0	N4-030784	Agreed
N4-030985	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	2	F	29.002	5	5.6.2	N4-030895	Revised to N4-031068
N4-030986	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	2	A	29.002	6	6.2.0	N4-030896	Revised to N4-031069
N4-030987	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	024	1 -	B	23.066	Rel-5	5.0.0	N4-030803	Agreed
N4-030988	6.3	Output LS	LS on Clarification for the relation between CAMEL and Presence Service	NTT DoCoMo									Revised to N4-031062
N4-030989	4	Input LS	Reply LS on alignment of maximum bit rate for HSDPA in UMTS system	CN1	NEC	to:				Rel-5		N1-031287	Postponed to CN4#21
N4-030990	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	669	1	F	29.002	5	5.6.2		Postponed to CN4#21
N4-030991	6.3	CR	Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	PRESNC	041		B	29.228	6	5.4.0	N4-030797	Agreed
N4-030992	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092	1	F	29.010	Rel-6	5.3.1		Revised to N4-031064
N4-030993	6.4	CR	Originating S-CSCF name	Nokia	IMS2-CCR	123	1	**B**	23.008	6	5.5.0	N4-030833	Postponed to CN4#21
N4-030994	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122	1	F	23.008	5	5.5.0	N4-030787	Revised to N4-031066
N4-030995	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051	1	F	29.228	5	5.4.0	N4-030789	Agreed

N4-030996	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0	N4-030869	Revised to N4-031060
N4-030997	7.1.1	CR	Error in S-CSCF Assignment Type	Siemens	IMS-CCR	042	3	F	29.228	Rel-5	5.4.0	N4-030807	Agreed
N4-030998	7.1.1	CR	The S-CSCF name needs to be checked always in MAR and SAR	Nokia	IMS-CCR	021	1	F	29.229	Rel-5	5.4.0	N4-030838	Agreed
N4-030999	7.1.1	CR	Correction on the PPR command code	Ericsson	IMS	022	2	F	29.229	R5	5.4.0	N4-030868	Agreed
N4-031000	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032	2	F	29.328	5	5.4.0	N4-030821	Agreed
N4-031001	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033	1	F	29.328	5	5.4.0	N4-030811	Revised to N4-031067
N4-031002	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035	1	F	29.328	5	5.4.0	N4-030964	Agreed
N4-031003	7.9	CR	Change of Early UE feature to PUESBINE	Vodafone	LATE_UE	454			29.060	Rel-5	5.6.0		Agreed
N4-031004	7.9	CR	Change of Early UE feature to PUESBINE	Vodafone	LATE_UE	455			29.060	Rel-6	6.1.0		Agreed
N4-031005	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	013	1	F	23.012	5	5.1.0		Agreed
N4-031006	6.11	CR	Add SGSN, GGSN and GMLC to network resource parameter	NEC	TEI-6	650	1	F	29.002	R6	6.2.0	N4-030819	Agreed
N4-031007	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659	1	F	29.002	R5	5.6.2	N4-030851	Revised to N4-031056
N4-031008	7.6	CR	Repeat subscription checking regarding SCUDIF	NTT DoCOMo	SCUDIF	129	1	F	23.018	R5	5.7.0	N4-030852	Withdrawn
N4-031009	7.6	CR	Repeat subscription checking in MO SCUDIF call	NTT DoCOMo	SCUDIF			F	23.172	R5	5.1.0	N4-030933	Noted
N4-031010	7.6	CR	Supplementary service interaction with SCUDIF calls	NTT DoCoMo	SCUDIF	014		F	23.172	R5	5.1.0	N4-030950	Noted
N4-031011	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	GTP Enhancements	436	1	F	29.060	6	6.1.0	N4-030817	Agreed
N4-031012	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453	1	A	29.060	Rel-6	6.1.0	N4-030947	Revised to N4-031054
N4-031013	8.1.	Output LS	LS reply on sending the SGSNs MNC and MCC to the GGSN and service node [S5-034449]	Nortel Networks									Approved
N4-031014	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6	448	1	F	29.060	Rel-6	6.1.0		Revised to N4-031016
N4-031015	6.6	Output LS	Reply LS on P-TMSI signature validation functionality in R99	Ericsson									Revised to N4-031063

N4-031016	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6	448	2	F	29.060	Rel-6	6.1.0	N4-031014	Agreed
N4-031017	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660	1	A	29.002	R6	6.2.0	N4-030850	Revised to N4-031056
N4-031018	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0	N4-030955	Noted
N4-031019	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130	1	B	23.018	R6	5.7.0	N4-030848	Postponed to CN4#21
N4-031020	6.2	Output LS	LS to SA1 on GUP work in CN4	Nokia	GUP							N4-030910	Agreed
N4-031021	7.6	DISC	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF							N4-030900	Noted
N4-031022	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	011	1	F	23.172	5	5.1.0	N4-030901	Noted
N4-031023	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	2	F	29.002	5	5.6.2	N4-030902	Revised to N4-031058
N4-031024	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	2	A	29.002	6	6.2.0	N4-030903	Revised to N4-031059
N4-031025	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF				23.018	Rel5	5.7.0		EMAIL approval 5th September
N4-031026	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	670	1	A	29.002	6	6.2.0		Postponed to CN4#21
N4-031027	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	068	1	F	23.153	5	5.5.0	N4-030915	Postponed to CN4#21
N4-031028	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	069	1	F	23.153	5	5.5.0	N4-030918	Postponed to CN4#21
N4-031029	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	667	1	F	29.002	5	5.6.2	N4-030916	Postponed to CN4#21
N4-031030	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	668	1	A	29.002	6	6.2.0	N4-030917	Postponed to CN4#21
N4-031031	6.4.1	CR	Sharing public identities across multiple UEs	Nokia	IMS-CCR2	124			23.008	Rel6	5.6.0		Withdrawn
N4-031032	8.3	CR	Clarification on codec modification	Siemens	OoBTC	062		F	23.153	4	4.8.0	N4-030871	Agreed
N4-031033	8.3	CR	Clarification on codec modification	Siemens	OoBTC	063		A	23.153	5	5.5.0	N4-030872	Agreed
N4-031034	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	066	1	F	23.153	Rel-4	4.8.0	N4-030913	Agreed
N4-031035	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	067	1	F	23.153	Rel-5	5.5.0	N4-030914	Agreed

N4-031036	7.11	CR	Changes to enable the GSMA root DNS architecture	Vodafone	TEI_5	074	1	F	23.003	5	5.6.0	N4-030876	Agreed
N4-031037	7.11	Output LS	Response LS on DNS Top Level Domains used in 3GPP TS 23.003	Vodafone									Approved
N4-031038	6.10	CR	Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	LCS2	645	1	B	29.002	6	6.2.0		Agreed
N4-031039	6.10	Output LS	Reply LS on ntroduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks									Approved
N4-031040	6.10	CR	Positioning Data for UTRAN LCS	Nortel Networks, AWS	LCS2	655	1	F	29.002	6	6.2.0	N4-030818	Withdrawn
N4-031041	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	582	2	F	29.002	Rel-4	4.12.0	N4-030923	Agreed
N4-031042	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	583	2	A	29.002	Rel-5	5.6.2	N4-030924	Agreed
N4-031043	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	584	2	A	29.002	Rel-6	6.2.0	N4-030925	Agreed
N4-031044	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	ASCI	A059	1	F	03.03	96	5.4.1		Agreed
N4-031045	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A060	1	A	03.03	97	6.7.0		Agreed
N4-031046	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A061	1	A	03.03	98	7.7.0		Agreed
N4-031047	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A337		F	09.02	R96	5.18.0		Agreed
N4-031048	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A338		A	09.02	R97	6.13.0		Agreed
N4-031049	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A339		A	09.02	R98	7.13.0		Agreed
N4-031050	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	661		A	29.002	R99	3.17.0		Agreed
N4-031051	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	662		A	29.002	R4	4.12.0		Agreed
N4-031052	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	663		A	29.002	R5	5.6.2		Agreed

N4-031053	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	664		A	29.002	R6	6.2.0		Agreed
N4-031054	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453	1	A	29.060	Rel-6	6.1.0	N4-031012	Agrred
N4-031055	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	026	1	F	23.079	R5	5.2.0		Agreed
N4-031056	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659	2	F	29.002	R5	5.6.2	N4-031007	Agreed
N4-031057	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660	2	F	29.002	R5	5.6.2	N4-031017	Agreed
N4-031058	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	3	F	29.002	R5	5.6.2	N4-031023	Agreed
N4-031059	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	3	A	29.002	R6	6.2.0	N4-031024	Agreed
N4-031060	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0	N4-030996	Agreed
N4-031061	4	Output LS	LS Stage 3 level specification directions for support for subscriber certificate work item	Ericsson									Approved
N4-031062	6.3	Output LS	LS on Clarification for the relation between CAMEL and Presence Service	NTT DoCoMo								N4-030988	Approved
N4-031063	6.6	Output LS	Reply LS on P-TMSI signature validation functionality in R99	Ericsson									Approved
N4-031064	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092	2	F	29.010	Rel-6	5.3.1		Agreed
N4-031065	6.11	CR	Positioning Data for UTRAN LCS	Nortel	TEI6	674			29.002	Rel-6	6.2.0		Email approval
N4-031066	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122	2	F	23.008	5	5.5.0		Agreed
N4-031067	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033	1	F	29.328	5	5.4.0		Agreed
N4-031068	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	3	F	29.002	5	5.6.2	N4-030985	Agreed
N4-031069	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	3	A	29.002	6	6.2.0	N4-030986	Agreed

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4th Sept, 2003	DRAFT v1.0.0 placed to meeting server and 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: mailto:kimmo.kymalainen@ETSI.org A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report. **E-mail comments back by 15th September 2003**
	DRAFT v1.X.0 (with rev marks placed to FTP server)
September 2003	*Final v2.0.0 approved at TSG#21 Meeting– Made version 3.0.0 and placed to server as the official meeting report.*

DRAFT

Third Generation Partnership Project

MEETING REPORT v1.~~0~~1.0~~0~~

3GPP TSG-CN4#20

Sophia Antipolis, France.
25th - 29th August, 2003

Hosted by:

ETSI

CN4 Officials:

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1 Opening of the meeting and approval of the agenda

Mr. Kimmo Kymäläinen of ETSI/MCC welcomed the delegates to Sophia Antipolis on behalf of the hosts.
The meeting was chaired by Mr. Peter Schmitt, (Chair, Siemens). Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC). **N4-030733 APPROVED**

1.1 IPR Call

The Chairman reminded delegates of 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 delegates were 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 TSG CN and the CN working groups
- to notify the Director-General or chairman 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

2 Allocation of documents to agenda items

N4-030735 **Detailed agenda & time plan for CN4 #20: status on eve of meeting**
Discussion:
Status: **APPROVED.**

3 Meeting Reports

3.1 CN4#19 meeting report San Diego, USA

N4-030739 **CN4#19 meeting report San Diego, USA**
Discussion:
Status: **APPROVED.**

3.2 Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND

N4-030737 **Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND**
Discussion:
Status: **NOTED.**

4 Input liaison statements

N4-030754 **LS on Core Network Provision of separate flows for P2P and P2M radio Transmission and Minimum UE Capability Required for Supporting MBMS [R1-030630], RAN1.**
Discussion: CN4 copied for info only.
Status: **NOTED.**

N4-030755 **Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission [R2-0301483], RAN2.**
Discussion: CN4 copied for info only.
Status: **NOTED.**

N4-030759 **LS on CS interconnect charging for multi-media services (Video telephony) [S1-030979], SA1.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030761 **LS on Security issues regarding multiple PDP contexts in GPRS [S2-032680], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030970 **Reply LS on “Security issues regarding multiple PDP contexts in GPRS” [S2-033240], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030764 **LS on modification of the LDR event types [S2-032722], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030767 **IPv4 and IPv6 form of Charging Gateway Address [S2-032738], SA2.**

Discussion:

Status: **NOTED.**

N4-030768 **LS Response to "Inclusion of IMS Signalling Indicator in S-CDR" [S2-032741], SA2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030769 **Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission [S4-030558], SA4.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030772 **LS on "Inclusion of IMS Signalling Indicator in S-CDR" [S5-034312], SA4.**

Discussion: SA5 has received a request from GSMA CPWP (S5-034152, attached) to add an "IMS charging indicator" to the SGSN CDR, similar to the one that already exists in the G-CDR. However, the GGSN indicator is based on a parameter in the PCO, while there is no such explicit indication visible to the SGSN. In the short term, the IMS Signalling indicator in the S-CDR could be determined by using the existing PCO flag along with the QoS indication – the GGSN setting the QoS Signalling flag in the negotiated QoS IE based upon the existing flag in the PCO. However, this mechanism will only work so long as the GGSN enforces setting the QoS flag based on the received PCO flag. If the GGSN does not enforce setting the QoS based upon the PCO flag, this solution cannot be used to indicate IM signalling in the S-CDR. However, even if the GGSN does set the QoS Signalling flag in the negotiated QoS when sending it back to the SGSN, it may, in effect, "upgrade" the signalling for the context. In the long term however, there is no guarantee that the existing flags will be used specifically for IM. The flag is really a radio resource indication for applications (which may be other than IMS). The current description of these flags does not ensure that they are for the sole use of IMS. For the long term, either SGSN must inspect the PCO (it is currently passed transparently to the GGSN) or another indicator is needed specifically to indicate that the context is being used for IM signalling.

Thus, there appear to be two possible solutions:

Introduce a new IM specific flag that the SGSN has access to (e.g. the GGSN passing this IM specific flag to the SGSN in the create PDP context response, based on the received PCO).

Force the SGSN to parse the PCO.

CN4 decided to wait response from SA2 before any kind of conclusion.

Status: **NOTED.**

N4-030773 **LS on possible re-organisation of 3GPP charging specification work [S5-034444], SA4.**

Discussion:

Status: **NOTED.**

N4-030956 **CN's view on possible re-organisation of 3GPP charging specification work, CN WGs chairmen.**

Discussion: If SA5 SWB moves to CN, the following sequence is envisioned:

- SWGB moves under CN as an ad-hoc
- SWGB agrees with SA1 to move stage 1 responsibility to SA1
- SWGB together with SA2 agrees on how to split the responsibility on stage 2
- SWGB gets integrated into CN3 or CN4 if the workload can be accommodated. Otherwise it might become a new WG.

Status: **NOTED.**

N4-030962 **Future Location of Work on Charging Standardisation, Nortel Networks.**

Discussion: Motorola would like to see some points on Nortel contribution to be added in CN level reply.

Nortel think there are no reason to response LS to SA5 about the issue.

Status: **NOTED.**

N4-030968 **Reply LS on possible re-organisation of 3GPP charging specification work [S2-033236], SA2.**

Discussion: Motorola would like to see some points on Nortel contribution to be added in CN level reply.

Nortel think there are no reason to response LS to SA5 about the issue.

CN4 decided to wait until SA5 has made a decision on the issue

Status: **NOTED.**

N4-030775 **LS reply for R99 and following on video telephony [S5-034450], SA5.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030777 **LS - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks [T2-030364], T2.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030778 **Liaison to 3GPP from AT-F - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks [ETSI/AT(03)TD16R00], AT-F group.**

Discussion: CN4 copied for info only.

Status: **NOTED.**

N4-030779 **EC Recommendation and explanatory note on the requirements for location information in emergency calls [IP/03/1122], European Comission.**

Discussion: CN4 MCC Support will check if document has sent to SA2.

Status: **NOTED.**

N4-030926 **Input LS Stage 3 level specification directions for support for subscriber certificate work item [S3-030469], SA3.**

Discussion: SA3 kindly ask CN4 to recommend a way to proceed from the 3 approaches by reviewing the attached contribution (S3-030340) and the draft TS on protocol C and D section.

Nokia: There have been more discussions in SA3 and alternative 3 doesn't exist anymore.

Nokia has made a WID proposal based alternative 1.

Ericsson would like to wait outcome of SA3 add hoc meeting. Ericsson believe CN4 could take stage 3 work of this subject, but not before SA3 has made decision about stage 2 and we know all the requirements

Siemens proposed LS to SA3 to ask more information about requirements.

LS drafted by Ericsson (N4-030974)

Status: **NOTED.**

N4-030974 **LS Response on Stage 3 level specification directions for support for subscriber certificate work item, Ericsson.**

Discussion: Nokia: Nokia: C and D interfaces should not be included into Cx protocol~~B and D interfaces should be included into Cx protocol~~. Interfaces should handle differently

Lucent:: Action is needed to SA3:

CN4 request SA3 to provide clear guidance on the stage 3 requirements

Status: **REVISED to N4-031061**

⇓ REVISED ⇓

N4-031061 **LS Response on Stage 3 level specification directions for support for subscriber certificate work item, Ericsson.**

Discussion:

Status: **APPROVED**

N4-030926 **LS on new interface names [S3-030471], SA3.**

Discussion:

Status: **NOTED.**

N4-030967 **LS Response on new interface names [S2-033235], SA2.**

Discussion:

Status: **NOTED.**

5 Work Item management

N4-030906 **Support for subscriber certificates, stage 3, Nokia.**

Discussion: Lucent was added as a supported company of WID.

Status: **APPROVED.**

N4-030864 **Updated MBMS WID, 3**

Discussion: Only timescale updated.

Status: **ENDORSED by CN4.**

6 Release 6

6.1 Wireless LAN interworking

N4-030758 **LS on SMS/MMS Interworking from WLANs [S1-030967], SA1.**

Discussion:

Status: **NOTED.**

N4-030766 **LS on 802.11i / WPA and RADIUS to Diameter co-existence analysis and recommendations for WLAN interworking [S2-032727], SA2.**

Discussion: LS is related to N4-030790 and N4-030792

Status: **NOTED.**

N4-030776 **Re: LS on SMS/MMS Interworking from WLANs [T2-030316], T2.**

Discussion:

Status: **NOTED.**

N4-030790 **TS 29.234, 3GPP AAA Proxy Translation Agent detailed behaviour, Nokia.**

Discussion: China Mobile: Ws-diameter could be diameter or radius based

Nokia: We already decided Ws shall be diameter based.

Ericsson: Mapping on the server should be avoided.

Nokia: NASREQ IETF draft describes where translation need to be done.

Nokia: The 3GPP AAA Server needs to be aware of whether the client in the WLAN AN is RADIUS or Diameter based.

Ericsson don't like optionally because it may cause interoperability problems

Nokia: Radius is not use in AAA server.

Ericsson: You have to know if the user is radius. In any case you have to do double check.

After offline discussion Ericsson agreed the changes

Editorial comments from Nortel will be incorporated.

The changes will be incorporate to the new version of 29.234.

China Mobile would like to challenge the choice of radius based Ws-interface China Mobile will draft a discussion paper about the subject before CN4#21.

Status: **APPROVED**

N4-030791 **TS 29.234, Wr Procedure Description, Nokia**

Discussion: Lucent: References should be as described in 3GPP drafting rules.

France Telecom: Should be added that these are used only in radius based cases.

The changes will be incorporated to the new version of 29.234.

Status: **APPROVED**

N4-030792 **TS 29.234, 3GPP AAA Server behaviour when Interworking with RADIUS/Diameter clients, Nokia**

Discussion: Vodafone: We had discussion in the last meeting that we will use diameter base protocol

Chine Mobile: Would like to have radius as an optional protocol

Vodafone: CN plenary made already decision that protocol is based diameter.

The changes will be incorporated to the new version of 29.234.

Status: **APPROVED**

N4-030793 **TS 29.234, Ws Procedures Description, Nokia**

Discussion:

Status: **APPROVED**

N4-030794 **TS 29.234, Wx based on Cx, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030795 **TS 29.234, Wx message contents, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030796 **TS 29.234, Wx diagrams flows, Nokia.**

Discussion:

Status: **WITHDRAWN**

N4-030934 **TS 29.234, Add HLR and CGF to network element entities; China Mobile, Huawei**

Discussion: Ericsson: There wasn't decision that D-interface is described in stage 2 Rel-6.

Nokia: SA2 has made decision that MAP extensions shouldn't be done.

For 29.002 there shouldn't be any enhancements

China Mobil: How do we know how the interworking to HLR is performed.

Nortel: It is not subject of this specification. This have to be described in the Stage 2.

France Telecom: Stage 2 already mentions that D' or Gr' are subsets of Gr and D reference points.

Stage 2 shall describe how an AAA server shall behave on pre Rel6 HLRs.

Delegates are asked to contact their SA2 colleagues on this topic.

Status: **WITHDRAWN**

N4-030935 **TS 29.234, Addition of D' reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030936 **TS 29.234, Addition of Wb reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030937 **TS 29.234, Addition of Wc reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030938 **TS 29.234, Addition of Wf reference point; China Mobile, Huawei**

Discussion:

Status: **WITHDRAWN**

N4-030939 **TS 29.234, Supplement of Radius based Wr reference point description, Huawei, China Mobile**

Discussion: Nokia: IMSI is usually used in very secured interfaces.

Nokia: Some information element are related to charging. Session alive time and Charging Duration are very useful, but these should be described in charging specifications.

China Mobile would like to push finalise information element list.

Nokia: It's useful to have a list like described in section 6.5.1

Chairman: More discussion is needed about content of parameters.

China Mobile: The first part of CR is cover by Nokia contribution.

The last part is agains a decission of last meeting that the interface shall be diameter based.

Status: **WITHDRAWN**

N4-030977 **3GPP TS 29.234 V0.2.0; Editor**

Discussion: This document will be raised to v1.0.0 and send to CN#20 for information.

China Mobile would like to challenge the choice of diameter protocol. They will bring a contribution to next meeting.

Status: **APPROVED**

6.2 Generic User Profile

N4-030771 **LS on usage of GUP reference points [S5-032227], SA5.**

Discussion:

Status: **NOTED.**

N4-030760 **LS on usage of GUP reference points [S2-032679], SA2.**
Discussion:
Status: **NOTED.**

N4-030907 **TS 29.240, Main concept, Nokia.**
Discussion: The last meeting we decided to use SOAP as a working assumption.
CN4 decided to use document as basic for further development of 3GPP TS 29.240.
Status: **APPROVED.**

N4-030908 **TS 29.240, Profile Schema, Nokia.**
Discussion: Siemens: It should be described that mapping is implementation issue and not should be standardise in here.
Siemens: Do you suppose to have complete XML scheme description in the document?
Lucent: XML schema should be as complete as possible
Nortel: The format of Cx and Sh data definition have to be in line with data definition on GUP.
CN4 decided to use document as basic for further development of 3GPP TS 29.240.
Status: **APPROVED.**

N4-030909 **TS 29.240, Rp Definition, Nokia.**
Discussion: Ericsson: There is a liberty meeting during next week and our expert didn't want to comment this document before.Ericsson would like to have more time before they can approve the proposed text to 3GPP TS 29.240.
CN4 decided that the discussion about the topic will continue via Email. The next draft will be prepared for the next meeting which covers the result of the email discussion.
The deadline of email discussion will be 26th September 2003.
Status: **NOTED**

N4-030910 **LS OUT LS to SA1 on GUP work in CN4; Nokia.**
Discussion:
Status: **REVISED to N4-031020.**

⇓ REVISED ⇓

N4-031020 **LS OUT LS to SA1 on GUP work in CN4; Nokia.**
Discussion:
Status: **APPROVED.**

6.3 Presence

N4-030797 **Introduction of Presence Stage 3 (Px) to the Cx interface; Lucent**
CR: **29.228-041r1**
Discussion:
Status: **Revised to N4-030991**

⇓ REVISED ⇓

N4-030991 **Introduction of Presence Stage 3 (Px) to the Cx interface; Lucent**
CR: **29.228-041r2**
Discussion:
Status: **APPROVED**

N4-030798 **Introduction of Presence Stage 3 (Ph) to the Sh interface; Lucent**

CR: **29.328-026**

Discussion: Nortel: We should send an LS to SA2 to ask detailed information about Ph-interface because stage 2 is not clear enough.

Status: **POSTPONED TO CN4#21**

N4-030971 **LS response on "LS response CAMEL support for the Presence Service" [S2-033246], SA2.**

Discussion:

Status: **NOTED.**

N4-031018 **Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN; NTT DoCoMo**

CR: **23.078**

Discussion: This will be a part of collective presence CR.

Vodafone: Is support for presence as option in Rel-6? Does Camel also need to support on presence?

NTT DoCoMo: Do we have to use the feature in Camel 4 as mandatory or optional?

Ericsson: BSI information should be also enhanced

Vodafone: ASN1 description should not be directly effected on stage 2.

Draft LS to SA2 N4-030988 (revised to N3-031062) about the open issues

Status: **NOTED**

N4-030988 **LS on Clarification for the relation between CAMEL and Presence Service, NTT DoCoMo.**

Discussion: A paragraph about requirements of Ph interface should be added

Status: **REVISED to N4-031062**

⇓ REVISED ⇓

N4-031062 **LS on Clarification for the relation between CAMEL and Presence Service, NTT DoCoMo.**

Discussion:

Status: **APPROVED**

N4-030847 **Assingment of SSN value for Presence Network Agent; NTT DoCoMo**

CR: **23.003-069**

Discussion: The SSN of gsmSCF can be reused presence network agent

Nokia: We would like to postponed the discussion to next meeting because we need the more information from SA1 and SA2 about effects on Camel 4.

Status: **POSTPONED to CN4#21**

N4-030848 **Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info; NTT DoCoMo**

CR: **29.002 658**

Discussion:

Status: **REVISED to N4-030960**

⇓ REVISED ⇓

N4-030960 **Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info; NTT DoCoMo**

CR: **29.002 658r1**

Discussion: The SSN of gsmSCF can be reused presence network agent

Nokia: We would like to postponed the discussion to next meeting because we need the more information from SA1 and SA2 about effects on Camel 4.

Status: **POSTPONED to CN4#21**

N4-030849 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130**
Discussion:
Status: **REVISED to N4-030960**

⇓ REVISED ⇓

N4-030961 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130r1**
Discussion:
Status: **REVISED to N4-031019**

⇓ REVISED ⇓

N4-031019 **Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server; NTT DoCoMo**
CR: **23.018-130r2**
Discussion:
Status: **POSTPONED to CN4#21**

6.4 Subscriber data handling for the IMS

6.4.1 HSS – CSCF (Cx) & SLF - CSCF (Dx) interfaces

N4-030928 **Reply to LS N4-030722 (=S3-030337) on adapting Cx interface protocols for security purposes [S3-030473]; SA3.**
Discussion:
Status: **NOTED**

N4-030830 **Version control in Cx and Sh; Nokia.**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030893 **Version control IMS; Nortel Networks**
Discussion:
Status: **WITHDRAWN**

N4-030931 **Version Control for Cx/Sh; ~~Nortel Networks~~Ericsson**
Discussion: Siemens: What does the lowest supported version means?

Ericsson: Should be the highest common supported version.

Nokia: What is the reason to send to the command twice when the version control is made on the command level?

Ericsson: Nortel proposes that the node which does not support the Command version responds; the version it supports that the originating can't send the message again in the supported version of the command.

Ericsson: The nodes support all lower versions.

Ericsson: To avoid incompatibility with IETF Ericsson wants to have version control on application level.

Ericsson would like to introduce the 3GPP version control also in IETF on Application level.

Nokia wants describe the 3GPP version control only in 3GPP and do not want to introduce it in IETF.

Nokia would like to see the version control on Command level.

France Telecom: An optional AVP at IETF should not become a mandatory AVP at 3GPP.

Nokia: We should handle the version control for 3GPP only.

Ericsson: CX interface protocol is handled in IETF. Do we want have our own Version control handling at 3GPP?

France Telecom: We should define a version control but it must be seen as temporarily solution until it is adopted in IETF by a new AVP.

Vodafone: Cx interface protocol is also handled in IETF, Sh interface is only controlled by 3GPP.

Siemens: Do we need a version control now? (according to decision at CN4#14).

Ericsson doesn't see any harm to have this version control described now.

Lucent would prefer a solution which is more in the direction of IETF.

Status: **POSTPONED to CN4#21**

N4-030831 **Sharing public identities across multiple UEs; Nokia.**

CR: **29.228 052**

Discussion: Nokia: This is only for Rel-6.

France Telecom: Do we need the distinguish between public an Private user identity on Sh Interface?

Nokia: Sh interface is only private identity related.

Lucent: Does the schema must be also changed?

Nokia: There are only the relationship in the HLR which are more complicated; The Cx interface relation chip does not change.

France Telecom: This should be described may be in 23.008?!

Status: **AGREED**

N4-030834 **Originating S-CSCF name; Nokia.**

CR: **29.228 053**

Discussion: Depend on decision N4-030993

Status: **POSTPONED to CN4#21**

N4-030835 **Originating S-CSCF name; Nokia.**

CR: **29.229 020**

Discussion: Depend on decision N4-030993

Status: **POSTPONED to CN4#21**

N4-030870 **Status of DMA IETF draft; Ericsson.**

Discussion: Ericsson: Companies should follow the discussion on the IETF mailing list to avoid any incompatible changes related to 3GPP release 5.

Vodafone: Does the command codes have 3GPP private command codes?

Ericsson: The command codes are temporarily.

France Telecom: Time frame for IETF DMA application mile stone is not defined yet, it depends when a work item at IETF is agreed.

Status: **NOTED**

6.4.2 HSS – SIP AS (Sh) interface

N4-030836 **Originating S-CSCF name; Nokia.**

CR: **29.328-037**

Discussion:

Status: **POSTPONED to CN4#21**

N4-030832 **Dh interface; Nokia.**
CR: **29.328 036**
Discussion: Ericsson: The Title of the document should be changed as well? MCC has to check if this is possible.
Siemens: Is this only for Release 6?
Nokia: This is only a requirement starting with Rel.6. Interface AS-SLF will present only in Rel 6.
Email discussion should take place until CN4 next meeting.
Status: **POSTPONED to CN4#21**

6.5 CAMEL phase 4

N4-030750 **Enhancements for the Partial Implementation for Enhanced Dialled Services, Alcatel.**
CR: **29.002 525**
Discussion: The CR is approved. Will be a part collective CR and won't be send to CN#21 for approval.
Status: **NOTED**

N4-030840 **Collective CR for Rel-6 Enhanced Dialled Services, Nokia.**
CR: **23.078 553**
Discussion:
Status: **NOTED**

N4-030841 **Collective CR for Rel-6 Enhanced Dialled Services, Nokia.**
CR: **23.018-126**
Discussion:
Status: **NOTED**

6.6 GPRS

N4-030780 **DISC GTP Path Failure Recovery; Nortel Networks.**
Discussion: Lucent: How the restart value is managed in GSN?
Nortel: GSN has one local value for restart. GSN has also restart values that corresponds to the each connected GSNs.
Vodafone: Lower layer can also treat path failure?
Nortel: TDOC tries to put more function on GTP layer but Nortel agree that lower layer can do something other than this.
Ericsson: What is the benefit of this CR?
Nortel: You don’t have to send PDP context update message for this purpose.
Ericsson believes that this is not a best solution.
Nokia thinks that since this is an optional feature, some company won’t support this feature as well.
Nortel withdrew this contribution on an assumption that the echo handling would be mandated in future meeting for REL6. This issue will continue to be discussed in out future meeting.
Status: **NOTED**

N4-030781 **Enhancement of Recovery IE to reduce number of dangling PDP Contexts; Nortel Networks.**
CR: **29.060 431**
Discussion:
Status: **WITHDRAWN**

N4-030782 **Change of Restart Counter definition for enhanced GTP recovery procedures; Nortel Networks.**
CR: **23.007 008**

Discussion:

Status: **WITHDRAWN**

N4-030817 **Removal of End User Address from Create Subsequent PDP Context Response; Nortel Networks.**

CR: **29.060 436**

Discussion: Nortel: Within 29.060, it is currently not entirely clear whether the End User Address should be included in Create PDP Context Response for establishment of a Subsequent PDP Context. It is clear however, that whether the parameter is included or not, providing the End User Address in this situation is redundant, since End User Address should be the same for a Subsequent PDP Context as it is for the associated primary PDP Context.

Ericsson agrees with the CR, but they think second added sentence is redudant information.

Acceped by the meeting.

Nokia:We can accept the CR, but added text should be relocate.

Accepted by the meeting

Status: **REVISED N4-031011**

⇓ REVISED ⇓

N4-031011 **Removal of End User Address from Create Subsequent PDP Context Response; Nortel Networks.**

CR: **29.060 436r1**

Discussion:

Status: **AGREED without presentation**

N4-030878 **DISC GTP Diagnostic Information; Nortel Networks, Vodafone.**

Discussion: Nokia: The idea is interesting, but too much work to implement when we thinking about benefit.

Ericsson: In the last CN4 meeting, it is concluded that the next discussion would be held in SA2. You are introducing a new mechanism and this should be handled at first in SA2

Siemens: using a tracer in case of Interoperability test is a better solution. If an error is detected during a interoperability test a tracer has to be used anyway to find the error.

Status: **NOTED**

N4-030879 **Diagnostic Information in GT, Nortel Networks.**

CR: **29.060-382r2**

Discussion:

Status: **WITHDRAWN**

N4-030969 **LS on P-TMSI signature validation functionality in R99 [S2-033237]; SA2.**

Discussion: Ericsson: We believe that both the UE and the Old SGSN needboth have to have P-TIMSI Signature to be able to make a comparisonfor configuration. They believe chapter 7.7.1 is clear enough and no changes are needed. Ericsson believes it's not a mismatch.

CN4 should answer to SA2 to say 'P-TMSI Signature mismatch' is not applied for the case that the LS explained. Further more, it should mention to SA2 that the protocol used between new SGSN and old SGSN is GTP v0 and we don't want to enhance GTP v0companies shall internally inform their SA2 delegates that enhancing GTP v0 shall be avoided.

LS back to SA2 (N4-031015)

Status: **NOTED**

N4-031015 **Reply LS on P-TMSI signature validation functionality in; Ericsson.**

Discussion:

Status: **REVISED to N4-031063**

⇓ **REVISED** ⇓

N4-031063 **Reply LS on P-TMSI signature validation functionality in; Ericsson.**
Discussion:
Status: **APPROVED without presentation**

N4-030911 **Robust authentication during Attach and RAU, Nokia.**
CR: **29.060 445**
Discussion:
Status: **POSTPONED to CN4#21**

6.7 Mn Interface protocol

N4-030912 **TS 29.332, Mandatory IMS packages, Nokia.**
Discussion: Ericsson need more information why these packages are needed. Some of the packages are included~~troduced~~in H.248 and q.1950 and so currently covered.
Nokia and Ericsson will have offline discussion about which packages are already covered by H.248, etc.
Status: **REVISED to N4-030975**

⇓ **REVISED** ⇓

N4-030975 **TS 29.332, Mandatory IMS packages, Nokia.**
Discussion:
Status: **POSTPONED to CN4#21**

6.8 TRFO/Codec control

6.9 MAP specification

N4-030748 **Removal of SIWF description, Vodafone.**
CR: **29.002 642**
Discussion: NEC: Do we need to remove the SSN in 23.003?
Vodafone will prepare CR on 23.003 to next CN4 meeting if needed.
Status: **AGREED**

N4-030749 **Deletion of redundant Annex D, Vodafone.**
CR: **29.002 643**
Discussion:
Status: **AGREED**

N4-030785 **Removal of tables in section 7.6, Nortel Networks.**
CR: **29.002 644**
Discussion:
Status: **AGREED**

N4-030802 **Message Segmentation Mechanisms, Siemens.**
CR: **29.002 648**
Discussion: The principle to have an annex like this, Companies are invited to make inputs via the CN4 email exploder.
Status: **POSTPONED to CN4#21**

N4-030806 **Correction of References, Siemens.**
CR: **29.002 649**
Discussion:
Status: **AGREED**

N4-030815 **Correction of wrong AC name in the table in 17.1.6, Vodafone.**
CR: **29.002 665**
Discussion:
Status: **AGREED**

N4-030875 **Correction of serviceTerminationContext to immediateTerminationContext, Vodafone.**
CR: **29.002 653**
Discussion:
Status: **WITHDRAWN before meeting**

N4-030951 **SS-Barring Category, Siemens.**
CR: **29.002 671**
Discussion:
Status: **AGREED**

N4-030819 **Add SGSN, GGSN and GMLC to network resource parameter, NEC.**
CR: **29.002 650**
Discussion: Siemens: It could be good to add all MAP nodes known so far.
Agreed by source

Status: **REVISED to N4-031006**

N4-031006 **Add SGSN, GGSN and GMLC to network resource parameter, NEC.**
CR: **29.002 650r1**
Discussion:
Status: **AGREED**

N4-030877 **Optionality of the ProcessUnstructuredSS-Request Operation Result, ~~NEC~~Lucent.**
CR: **29.002**
Discussion:
Status: **WITHDRAWN before meeting**

6.10 Location services

N4-030756 **Liaison Statement on "Emergency Services Routing Based on Interim Position"[S1-030832; SA1.**
Discussion:
Status: **NOTED**

N4-030966 **Reply to Liaison Statement on "Emergency Services Routing Based on Interim Position" [S2-033225; SA1.**
Discussion:
Status: **NOTED**

N4-030786 **Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network, AWS**

CR: **29.002-645 (Rel-6)**

Discussion: Nokia: a number at ExtensionContainer should be removed because of backward compatibility.

Status: **REVISED to N4-031038**

⇓ REVISED ⇓

N4-031038 **Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network, AWS**

CR: **29.002-645r1 (Rel-6)**

Discussion:

Status: **AGREED without presentation**

N4-031039 **Reply LS on Introduction of North American Interim Location Based Routing of Emergency Call; Nortel Network**

Discussion: LS to: T1P1, SA1, SA2

Status: **APPROVED**

N4-030818 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-655 (Rel-6)**

Discussion:

Status: **REVISED to N4-031040**

N4-031040 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-655r1 (Rel-6)**

Discussion: A CR was already approved, but Nortel wanted to withdrawn it because of changed decision in RAN3.

Status: **WITHDRAWN**

N4-031065 **Positioning Data for UTRAN LCS; Nortel Network, AWS**

CR: **29.002-674 (Rel-6)**

Discussion: A CR will be available 2nd September 2003.

Discussion until 5th September 12:00. If approved a document will sent to CN#21 for approval.

Status: **EMAIL approval**

N4-030824 **New LCS Service Types; Siemens**

CR: **29.002-654 (Rel-6)**

Discussion:

Status: **AGREED**

6.11 Any Other Business for Rel-6

6.11.1 MBMS

N4-030863 **Introduction to MBMS; 3.**

Discussion: Lucent: Do we need a new GTP version?

~~The meeting opinion was that the new version is not needed.~~ In general new version should be avoided however the discussion was not concluded – there was a late discussion paper on this and it was not presented, it was proposed to delay conclusion of this until next meeting

3: There is going to be some new messages when MBMS is included in 29.060. The principle in this paper was to have a new section to cover MBMS in TS 29.060.

Status: **PRINCIPLE AGREED**

N4-030865 **Overview changes to 29.060 for MBMS; 3.**
CR: **29.060-444 (Rel-6)**
Discussion: 3: Would like to have agreement with the new sections on CR.
Lucent: We can agree the principle, but we can't agree the CR before it's complete.
3: No changes are needed in 23.060
The principle is agreed that for MBMS related messages a new chapter will be introduced.
Meeting agreed to use this CR as a base version for future work on MBMS.
Status: **POSTPONED to next meeting**

6.11.2 Handover/Relocation

N4-030867 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092 (Rel-6)**
Discussion: Lucent: We can agree the changes, but the place of the changes could be 23.009.
Nokia: The last CN1 meeting decided that changes should be in 29.010 specification.
Siemens: This kind of information is not needed in standards. This is not relevant information for the people who are making implementation.
Ericsson: If we agree the changes we should find a better place to on 29.010 to add the changes.
Ericsson: The sentences under section 1. should be deleted and some information added instead off original proposal.
Status: **REVISED to N4-030992**

⇓ REVISED ⇓

N4-030992 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-031064**

⇓ REVISED ⇓

N4-031064 **Information transfer at MAP-E interface during inter MSC handover/relocation; Nokia.**
CR: **29.010 092r2 (Rel-6)**
Discussion:
Status: **AGREED**

6.11.3 Subscriber and Equipment trace

N4-030929 **LS reply on Rel-6 Subscriber and Equipment Trace impacts to the Core Network [N4-038444]; SA5.**
Discussion: Companies are requested to study the issues. CN4 can't answer any of these questions before studying.
Status: **POSTPONED to CN4#21**

N4-030965 **Trace presentation**
Discussion: Presented at joint session with CN1
Status: **NOTED**

6.11.5 Basic Call handling

NP-030959 **Removal of SIWF material; Vodafone**
CR: **23.018-132 (Rel-6)**

Comments:
Status: **AGREED.**

7 Release 5 maintenance

7.1 Subscriber data handling for the IMS

N4-030787 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122**
Discussion: Siemens: 29.229 needs be updated.
Nokia: Information is only needed in HSS
France Telecom: CR needs to be changed to reflect this.
Vodafone: This is a useful change to allow operators to bar special operators/networks.
Status: **REVISED to N4-030994**

⇓ REVISED ⇓

N4-030994 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122r1**
Discussion: Siemens: Chapter 5.3 needs to be changed as well.
"P-CSCF identifier" changed to "visited network identifier"
Status: **REVISED to N4-031066**

⇓ REVISED ⇓

N4-031066 **Unauthorized P-CSCF networks; Orange.**
CR: **23.008-122r2**
Discussion: Proxy CSCF have to be replaced by visited network
Status: **AGREED without presentation**

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

N4-030789 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051**
Discussion:
Status: **REVISED to N4-030963**

⇓ REVISED ⇓

N4-030963 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051r1**
Discussion:
Status: **REVISED to N4-030995**

⇓ REVISED ⇓

N4-030995 **Mistakes in the XML schema of 29.228-540; Orange.**
CR: **29.228-051r2**
Discussion:
Status: **AGREED**

N4-030807 **Error in S-CSCF Assignment Type; Siemens.**
CR: **29.228-042**
Discussion:
Status: **REVISED to N4-030997**

⇓ REVISED ⇓

N4-030997 **Error in S-CSCF Assignment Type; Siemens.**
CR: **29.228-042r1**
Discussion:
Status: **AGREED**

N4-030837 **The S-CSCF name needs to be checked always in MAR; Nokia.**
CR: **29.228-054**
Discussion:
Status: **REVISED to N4-030954**

⇓ REVISED ⇓

N4-030954 **The S-CSCF name needs to be checked always in MAR; Nokia.**
CR: **29.228-054r1**
Discussion: Nokia wanted to postpone CR to next meeting
Status: **POSTPONED to CN4#21**

N4-030838 **The S-CSCF name needs to be checked always in MAR and SAR; Nokia.**
CR: **29.229-021**
Discussion: Nokia wanted to postpone CR to next meeting
Status: **POSTPONED to CN4#21**

N4-030839 **Extensibility of the public identity structure in the XML schema; Nokia.**
CR: **29.228-055**
Discussion:
Status: **REVISED to N4-030998**

⇓ REVISED ⇓

N4-030998 **Extensibility of the public identity structure in the XML schema; Nokia.**
CR: **29.228-055r1**
Discussion:
Status: **AGREED without presentation**

N4-030868 **Correction on the PPR command code; Ericsson.**
CR: **29.229-022**
Discussion:
Status: **REVISED to N4-030999**

⇓ REVISED ⇓

N4-030999 **Correction on the PPR command code; Ericsson.**
CR: **29.229-022r1**
Discussion:

Status: **AGREED**

7.1.2 HSS – SIP AS (Sh) interface

N4-030788 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032**
Discussion:
Status: **REVISED to N4-030821**

⇓ REVISED ⇓

N4-030821 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032r1**
Discussion:
Status: **REVISED to N4-031000**

⇓ REVISED ⇓

N4-031000 **Incorrect message flow in 29.328; Orange.**
CR: **29.328-032r2**
Discussion:
Status: **AGREED**

N4-030811 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033**
Discussion: A document was presented by Siemens delegate.
Nokia: Does granularity of service data has always optional?
Siemens, Nortel and Ericsson: If the AS wants to delete data it did not send the TAG.
Nokia: Charging data needs to be more flexible
Status: **REVISED to N4-031001**

⇓ REVISED ⇓

N4-031001 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033r1**
Discussion:
Status: **REVISED to N4-031067**

⇓ REVISED ⇓

N4-031067 **Correction of Sh data definition in Annex C and D; Hewlett-Packard.**
CR: **29.328-033r2**
Discussion:
Status: **AGREED**

N4-030823 **XML schema correction; Siemens.**
CR: **29.328-034**
Discussion: The CR was combined with approved **.**
Status: **WITHDRAWN**

N4-030825 **Mistakes in the XML schema of 29.328; Orange.**

CR: **29.328-035**
Discussion:
Status: **REVISED to N4-030964**

⇓ REVISED ⇓

N4-030964 **Mistakes in the XML schema of 29.328; Orange.**
CR: **29.328-035r1**
Discussion:
Status: **REVISED to N4-031002**

⇓ REVISED ⇓

N4-031002 **Mistakes in the XML schema of 29.328; Orange.**
CR: **29.328-035r2**
Discussion:
Status: **AGREED**

7.2 CAMEL phase 4

N4-030829 **Correction to interaction between ORLCF and forwarding notification; Ericsson.**
CR: **23.079-025**
Discussion:
Status: **REVISED to N4-030978**

⇓ REVISED ⇓

N4-030978 **Correction to interaction between ORLCF and forwarding notification; Ericsson.**
CR: **23.079-025r1**
Discussion: SA1 have to update stage 1.
Status: **AGREED**

7.3 GPRS

N4-030854 **Correction to reduce number of hanging PDP Contexts in GGSN; Ericsson**
Discussion: Ericsson's proposal: Our impression is that the case described above has been overlooked in the GTP standardisation. By introducing the IMSI IE to the Delete PDP Context Request message, the GGSN will be able to identify (using IMSI and NSAPI) which PDP Context that is to be removed. This is the same approach used in the Update PDP Context Request message to solve a similar problem (see 29.060, sub clause 7.3.3).

As there might be other situations when the SGSN needs to inform the GGSN to delete a PDP Context but still not have received the TEID, the inclusion of the IMSI IE shall not be limited to only the case described in this document.

Lucent & Vodafone D2: Sending IMSI as proposed is not a best solution and secure way. Instead of changes in 29.060 the changes should be made in 23.060.

Ericsson: After discussion Ericsson decided to withdrawn CRs.
Status: **NOTED**

N4-030855 **Introduction of IMSI in the Delete PDP Context Request message; Ericsson**
CR: **29.060-437**
Discussion:
Status: **WITHDRAWN**

N4-030856 **Introduction of IMSI in the Delete PDP Context Request message; Ericsson**
CR: **29.060-438**
Discussion:
Status: **WITHDRAWN**

N4-030946 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-452 (Rel-5)**
Discussion: "and 'Non-existent'" change will be removed.
Companies don't believe that correction is so serious that it can be approved in Rel-5.
Meeting decided to approve only Rel-6 CR
Ericsson: Title should be changed
Status: **WITHDRAWN**

N4-030947 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453 (Rel-6)**
Discussion:
Status: **REVISED to N4-031012**

⇓ REVISED ⇓

N4-031012 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-031054**

⇓ REVISED ⇓

N4-031054 **GGSN Handling of Update PDP Context Response; Huawei Technologies Co., Ltd**
CR: **29.060-453r2 (Rel-6)**
Discussion:
Status: **AGREED**

N4-030989 **Reply LS on alignment of maximum bit rate for HSDPA in UMTS system; CN1**
Discussion: CN4 didn't have to time to handle LS which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030980 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.002-672 (Rel-5)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030981 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.002-673 (Rel-6)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030982 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.060-454 (Rel-5)**

Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

N4-030983 **Support of the maximum bit rate for HSDPA; NEC**
CR: **29.060-455 (Rel-6)**
Discussion: CN4 didn't have to time to handle CR which came during the meeting. CN4 decided to postponed it to next meeting.
Status: **POSTPONED to CN4#21**

7.4 Bearer Independent Architecture

No documents in this meeting.

7.5 TrFO/Codec control

N4-030915 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **23.153-068 (Rel-5)**
Discussion: The MAP CR shall reflect that the request and the response codec list are different.
Status: **REVISED to N4-031027**

⇓ REVISED ⇓

N4-031027 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **23.153-068r1 (Rel-5)**
Discussion: CN 1 chairman needs to be informed that 23.009 is affected by these CRs.
Status: **POSTPONED to CN4#21**

N4-030918 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **23.153-069 (Rel-5)**
Discussion:
Status: **REVISED to N4-031028**

⇓ REVISED ⇓

N4-031029 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **23.153-069r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030919 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-569 (Rel-5)**
Discussion:
Status: **REVISED to N4-030990**

⇓ REVISED ⇓

N4-030990 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-569r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030920 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**

CR: **29.002-570 (Rel-6)**
Discussion:
Status: **REVISED to N4-031026**

⇓ REVISED ⇓

N4-031026 **Correction of Inter-MSC SRSN Relocation procedure; Siemens**
CR: **29.002-570r1 (Rel-6)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030916 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-667 (Rel-5)**
Discussion:
Status: **REVISED to N4-031029**

⇓ REVISED ⇓

N4-031029 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-667r1 (Rel-5)**
Discussion:
Status: **POSTPONED to CN4#21**

N4-030917 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-668 (Rel-6)**
Discussion:
Status: **REVISED to N4-031030**

⇓ REVISED ⇓

N4-031030 **Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation; Siemens**
CR: **29.002-668r1 (Rel-6)**
Discussion:
Status: **POSTPONED to CN4#21**

7.6 SCUDIF

N4-030757 **LS on CAMEL interactions with SCUDIF [S1-030961], SA1**
Discussion:
Status: **NOTED**

N4-030904 **CAMEL Interactions For SCUDIF In Release 5, Ericsson**
Discussion: Proposed functionality
Step A&B only in Rel-5
Status: **NOTED**

N4-031021 **CAMEL Interactions For SCUDIF In Release 5, Ericsson**
Discussion: The principle of the one step interrogation is agreed
Status: **NOTED**

N4-030846 **Should SCUDIF have a single basic service code?; Vodafone**
Discussion: Vodafone proposal brakes the architecture compares the Vodafone's proposal

Status: **NOTED**

N4-031022 **SCUDIF HLR Interrogation; NTT DoCoMo**
CR: **23.172-016 (Rel-5)**
Discussion: Last bullet preferred service shall be always be selected.
Agreed that the text which is related to basic call handling will be changed to an SDL and these will be incorporated into 23.018
The resulting CR has to be submitted to CN2, CN3 and CN4
Will be splitted into two CRs:
N3-030614 (23.172)
N4-031025 (23.018)
Status: **REVISED to N3-030614**

N4-031025 **SCUDIF HLR Interrogation; NTT DoCoMo, Ericsson**
CR: **23.018-133 (Rel-5)**
Discussion: SDLs will be on email approval with deadline Friday 5th September 2003 12:00 CET.
Status: **EMAIL approval**

N4-030930 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **23.079-026 (Rel-5)**
Discussion:
Status: **REVISED to N4-031055**

⇓ REVISED ⇓

N4-031055 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **23.079-026r1 (Rel-5)**
Discussion:
Status: **AGREED without presentation**

N4-031007 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-659r1 (Rel-5)**
Discussion:
Status: **REVISED to N4-031056**

⇓ REVISED ⇓

N4-031056 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-659r2 (Rel-5)**
Discussion:
Status: **AGREED without presentation**

N4-031017 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-660r1 (Rel-6)**
Discussion: This is a mirror CR.
Status: **REVISED to N4-031057**

⇓ REVISED ⇓

N4-031057 **Notification of the 2nd BSG in case of Late CF with OR; NTT DoCoMo**
CR: **29.002-660r2 (Rel-6)**

Discussion: This is a mirror CR
Status: **AGREED as a mirror CR**

N4-031023 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-613r2 (Rel-5)**
Discussion: Nokia: Allowed services should be defined as a bitstring
bitstring size should be 2-8

Status: **REVISED to N4-031058**

⇓ REVISED ⇓

N4-031058 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-613r3 (Rel-5)**
Discussion:
Status: **AGREED**

N4-031024 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-614r2 (Rel-6)**
Discussion: This is a mirror CR.
Status: **REVISED to N4-031059**

⇓ REVISED ⇓

N4-031059 **SCUDIF HLR Interrogation; Ericsson**
CR: **29.002-614r3 (Rel-6)**
Discussion: This is a mirror CR.
Status: **AGREED as a mirror CR**

7.7 Mobile Number Portability

Here is a short summary about number portabilily discussions :

ATI:
Arguments:
- Since we are requesting dynamic information ATI should be used. Because ATI is used for requesting dynamic information.
- gsmSCF is already capable of sending ATI.

Editorials:
Stage 2 impacts are distributed over MNP (23.066) and CAMEL (23.078) although stage 1 requirement is only on MNP (22.066).
Stage 3 impacts on MAP (29.002)
CR to 23.066 is "kind of" technical correct but needs massive editorial corrections.

Supporting companies:
Nortel Networks, Lucent , Ericsson, Sonera prefers ATI but basically they want to have a solution for Release 5.

SRI:
Arguments:
- Since we are requesting kind of routing information (charging is based on routing), SRI seems to be the more logical solution.
- gsmSCF and SRF are already capable of sending/receiving SRI.
- less impact on SRF*(from standard point of view, depends on the implementation of SRF)*.

Editorials:
Stage 2 impacts on MNP (23.066) since stage 1 requirement is on MNP (22.066)
Stage 3 impacts on MAP (29.002).

Supporting companies:
Nokia, Siemens, T-Mobile has a slight preference to SRI but it should be a release 5 issue

N4-030752 **LS on MNP[NP-030301], CN**

Discussion:

Status: **NOTED**

N4-030783 **MNP/ CAMEL Pre-Paid MNP-SRF solution; Nortel Networks**

Discussion: Nokia and Siemens support SRI

Ericsson, Nortel, Lucent and Telia-Sonera support ATI. Telia-Sonera would like to see the changes in Rel-5.

T-Mobil: Since we are requesting kind of routing information, SRI seems to be more logical solution.

Status: **NOTED**

N4-030784 **Incorrect CAMEL pre-paid charging in MNP networks; Nortel Networks, Ericsson**

CR: **23.066-026 (Rel-5)**

Discussion: Annex D will incorporated with Annex C

Siemens: Why do we need indirect routing, is it better to use direct routing?

Indirect routing is needed if SRF is in a different network.. MNP database can be in the different network.

Ericsson agreed to remove the part of indirect routing.

Siemens: Why there is (in D 2.1) the calling party added? Siemens doesn't see the requirement fir this/

Ericsson wants to have a more generic version.

Siemens: The SCP has already the information so it is not needed.

Siemens: Routing number is not needed when interrogating SFR. It's only needed when interrogating the SCP later.

Siemens: Routing number is not needed when interrogating the SRF it is only needed when interrogating the SCP later and this is already covered.

Ericsson would like to have it more general to cover the minimum requirement

Siemens: Why the calling party number is mentioned in section D 2.1? Calling party number should be removed.

Lucent: Terminology of this CR should be reworded

Status: **REVISED to N4-030984**

⇓ REVISED ⇓

N4-030984 **Incorrect CAMEL pre-paid charging in MNP networks; Nortel Networks, Ericsson**

CR: **23.066-026r1 (Rel-5)**

Discussion: Siemens: This CR doesn't include the changes we discussed earlier during this week. Ericsson offer to revise the changes, after it is agreed that they are infact only editorial, Siemens eventually accept to keep CRs as is.

Siemens: We based our stage 2 from requirement from stage1 not from individual vendor or operator.

Ericsson disagree. Ericsson has studied stage 1 and they believe there are high level requirements in stage1 which should be full fill.

Companies agreed that CR is technically correct and acceptable as well as SRF based CR by Siemens.

CR will be sent to CN#21 for approval. There will be 2 different CR packs in plenary. A CR set from Siemens which is based SRF and another set from Nortel/Ericsson which is based ATI.

Status: **AGREED**

N4-030803 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **23.066-024 (Rel-5)**

Discussion: Ericsson: MNPSRF info query is not specified in this CR, should it have included?

Ericsson: the last paragraph in C.1 ; SRF should be send back to sender, not subscribing network.

Ericsson: 2 CRs 784 and this one should be combined.

Status: **REVISED to N4-030987**

⇓ REVISED ⇓

N4-030987 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **23.066-024r1 (Rel-5)**

Discussion: Ericsson believes there is a 23.078 CR which should be linked with this CR.

Siemens: We don't believe that it's not necessary have modifications in Camel stage 2 specification. Changes can be cover by MNP stage 2 specification.

Companies agreed CR is technically correct.

CR will be sent to CN#21 for approval. There will be 2 different CR packs in plenary. A CR set from Siemens which is based SRF and another set from Nortel/Ericsson which is based ATI.

Status: **AGREED**

N4-030804 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **29.002-596r1 (Rel-5)**

Discussion: Context of the CR was agreed by CN4.

Status: **AGREED**

N4-030805 **SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers; Siemens**

CR: **29.002-597r1 (Rel-5)**

Discussion: Context of the CR was agreed by CN4.

Status: **AGREED**

N4-030895 **Incorrect Charging With MNP; Ericsson**

CR: **29.002-615r1 (Rel-5)**

Discussion: Siemens: Routing info IMSI and MSISDN don't need to be requested. Ericsson agree to removing the explicit request for this additional data if Siemens will then agree to these CRs - reply will still include the IMSI and Routeing Number.

Vodafone: CN2 needs to be review stage 2 CRs

Status: **REVISED to N4-030985**

⇓ REVISED ⇓

N4-030985 **Incorrect Charging With MNP; Ericsson**

CR: **29.002-615r2 (Rel-5)**

Discussion:

Status: **REVISED to N4-031068**

⇓**REVISED**⇓

N4-031068 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-615r3 (Rel-5)**
Discussion: Meeting agreed that the CR is technically correct.
Status: **AGREED**

N4-030896 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-616r1 (Rel-6)**
Discussion:
Status: **REVISED to N4-030986**

⇓**REVISED**⇓

N4-030986 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-616r2 (Rel-6)**
Discussion:
Status: **REVISED to N4-031069**

⇓**REVISED**⇓

N4-031069 **Incorrect Charging With MNP; Ericsson**
CR: **29.002-615r3 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030894 **SRF Based MNP Charging Solution; Ericsson**
Discussion:
Status: **WITHDRAWN**

N4-030897 **Incorrect Charging With MNP; Ericsson**
CR: **29.066-025 (Rel-5)**
Discussion:
Status: **WITHDRAWN**

7.8 MAP specification

N4-030952 **Provision of SDL diagrams and removal of redundant text in chapter 19; Vodafone**
CR: **29.002-636r2 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030953 **Provision of SDL diagrams and removal of redundant text in chapter 19; Vodafone**
CR: **29.002-637r2 (Rel-6)**
Discussion: This is a mirror CR.
Status: **AGREED as mirror CR**

N4-030814 **Correction of misaligned signal names between VLR and PVLR; Vodafone**
CR: **29.012-012 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030744 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-638 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030745 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-639 (Rel-6)**
Discussion: This is a mirros CR.
Status: **AGREED as mirror CR**

N4-030746 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-640 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030747 **Provision of SDL diagrams and removal of redundant text in chapter 20; Vodafone**
CR: **29.002-641 (Rel-6)**
Discussion: This is a mirros CR.
Status: **AGREED as mirror CR**

N4-030812 **Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message; Hewlett-Packard**
CR: **29.002-651 (Rel-5)**
Discussion:
Status: **WITHDRAWN**

N4-030813 **Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message; Hewlett-Packard**
CR: **29.002-652 (Rel-6)**
Discussion:
Status: **WITHDRAWN**

7.9 Early UE handling

N4-030751 **Input LS LS on Stage 3 work for Early UE handling; Nokia [G2-030437], GERAN2.**
Discussion:
Status: **NOTED**

N4-030762 **LS on inconsistency between UESBI-Iu definition in MAP and RANA [S2-032713], SA2.**
Discussion: N4-030921 CR propose the changes related this LS.
Status: **NOTED**

N4-030921 **UESBI format; Siemens**
CR: **29.002-646 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030922 **UESBI format; Siemens**
CR: **29.002-647 (Rel-6)**

Discussion: This a mirror CR on Rel-6
Status: **AGREED as a mirros CR**

N4-030763 **LS on minor issues identified by SA 2 during a review of the stage 3 CRs for the Early UE feature [S2-032714], SA2.**
Discussion: Covered by 29.010 091, 29.002 646
CR is needed also on 29.060 to full fill requirements on LS. Will be drafted by Vodafone
Status: **NOTED**

N4-030866 **Addition of Early UE specific cause code mapping; Nokia**
CR: **29.010-091 (Rel-5)**
Discussion:
Status: **AGREED**

N4-030844 **Corrections to "Early UE" handling; Vodafone**
CR: **23.012-013 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **REVISED to N4-031005**

⇓ REVISED ⇓

N4-031005 **Corrections to "Early UE" handling; Vodafone**
CR: **23.012-013r1 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **AGREED without presentation**

N4-030845 **Corrections to "Early UE" handling; Vodafone**
CR: **23.018-128 (Rel-5)**
Discussion: Editorial changes have to be made.
Status: **AGREED**

N4-031003 **Change of Early UE feature to PUESBINE; Vodafone**
CR: **29.060-454 (Rel-5)**
Discussion:
Status: **AGREED**

N4-031004 **Change of Early UE feature to PUESBINE; Vodafone**
CR: **29.060-456 (Rel-6)**
Discussion:
Status: **AGREED**

7.10 Location Services

NP-030765 **LS on the length of “LCS RequestorID” and “LCS Codeword” [S2-032725]; SA2**
Comments:
Status: **NOTED.**

NP-030826 **Reduce maximum length of “LCS Requestor ID” and “LCS Codeword”; Ericsson**
CR: **29.002-656 (Rel-5)**
Comments:
Status: **AGREED.**

NP-030828 **Reduce maximum length of "LCS Requestor ID" and "LCS Codeword"; Ericsson**
CR: **29.002-656 (Rel-6)**
Comments: This is a mirror CR
Status: **AGREED as a mirror CR.**

NP-030827 **Reduce maximum length of "LCS Requestor ID" and "LCS Codeword"; Ericsson**
CR: **24.080-029 (Rel-5)**
Comments:
Status: **AGREED**

7.11 Any Other Business for Release 5

7.11.1 Supplementary service

NP-030799 **MSC/VLR Transparency for Call Forwarding Supplementary Services; Lucent**
CR: **23.082-015; (Rel-5)**
Comments: Nick is it a critical correction?
Lucent would also accept it for Rel-6.
Siemens: What about the long forwarding to number parameter which is optional. Shall this send transparent also in the case when the MSC VLR does not support long forwarding to messages? This is in contradiction with the current specification.
Nokia: The CR is not necessary. It is already covered in 29.002 in more detail.
Lucent: 29.002 is not referenced in the stage 2
Status: **REJECTED.**

7.11.2 GSMA

NP-030932 **LS on DNS Top Level Domains used in 3GPP TS 23.003; GSMA IREQ**
Comments: Reply LS to GSMA IREQ (N4-031037)

Status: **NOTED.**

NP-030876 **Changes to enable the GSMA root DNS architecture; Vodafone**
CR: **23.003-074 (Rel-5)**
Comments: Lucent: RAN 3 has dealt with 4 digit MNCs(?) Is this covered?
These domains are more network internal and are not connected to Internet
The problems which are highlighted by IETF does not exists.
Response LS to GSMA, copy to CN1 (**N4-031037**)
Status: **REVISED to N4-031036**

NP-031036 **Changes to enable the GSMA root DNS architecture; Vodafone**
CR: **23.003-074r1 (Rel-5)**
Comments: Ericsson can accept the CR in this meeting. They will study the CR at home. They would like to have right to reject CR in CN#21 plenary meeting.
Status: **AGREED**

NP-031037 **LS on DNS domains used in 3GPP TS 23.003; Vodafone**
Comments: *LS will send to GSMA IREQ after CN#21 if CR 23.003-074r1 is approved.*
Status: **APPROVED**

8 UMTS Release 4 & Release 99 maintenance

8.1 GPRS

NP-030774 **LS reply on sending the SGSNs MNC and MCC to the GGSN and service node [S5-034449], SA5**
Comments: Reply LS to SA5 (N4-031013)
CN4 can do changes on Rel-6
More information is needed by SA2
Status: **NOTED.**

NP-031013 **LS reply on sending the SGSNs MNC and MCC to the GGSN and service node; Nortel**
Comments:
Status: **APPROVED**

NP-030808 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-432 (Rel-4)**
Comments:
Status: **AGREED.**

NP-030809 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-433 (Rel-5)**
Comments:
Status: **AGREED as a mirror CR**

NP-030810 **Correction of incorrect reference to a withdrawn specification; Lucent**
CR: **29.060-434 (Rel-6)**
Comments:
Status: **AGREED as a mirror CR.**

NP-030816 **Correction of incorrect reference; Lucent**
CR: **29.060-435 (R99)**
Comments:
Status: **AGREED.**

NP-030857 **Discussion paper on GTP usage of UDP Source and Destination port; Ericsson**
Comments: Other companies couldn't agree
Status: **NOTED.**

NP-030858 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-439 (R99)**
Comments:
Status: **WITHDRAWN.**

NP-030859 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-440 (Rel-4)**
Comments:
Status: **WITHDRAWN.**

NP-030860 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-441 (Rel-5)**
Comments:
Status: **WITHDRAWN.**

NP-030861 **GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports; Ericsson**
CR: **29.060-442 (Rel-6)**
Comments:
Status: **WITHDRAWN.**

NP-030862 **Clarification on Request and Response messages w.r.t. protocol error handling and port allocation; Ericsson**
CR: **29.060-443 (Rel-6)**
Comments:
Status: **WITHDRAWN before meeting**

NP-030940 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-446 (Rel-4)**
Comments: Lucent: Seems this is not an essential correction.
Ericsson can't accept the changes in Rel-4 or Rel-5.
Meeting can agree changes on Rel-6.
Status: **WITHDRAWN**

NP-030941 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-447 (Rel-5)**
Comments:
Status: **WITHDRAWN**

NP-030942 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448 (Rel-6)**
Comments: Small editorial corrections were made.
Status: **REVISED to N4-031014**

⇓ REVISED ⇓

NP-031014 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448r1 (Rel-6)**
Comments: Small editorial corrections were made.
Status: **REVISED to N4-031016**

⇓ REVISED ⇓

NP-031016 **GTP Cause Modification; Huawei Technologies Co., Ltd**
CR: **29.060-448r2 (Rel-6)**
Comments:
Status: **AGREED**

NP-030943 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-449 (Rel-4)**
Comments: Lucent: Seems this is not an essential correction.

Meeting can agree changes on Rel-6.
Status: **WITHDRAWN**

NP-030944 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-450 (Rel-5)**
Comments:
Status: **WITHDRAWN**

NP-030945 **GGSN Handling of Delete PDP Response; Huawei Technologies Co., Ltd**
CR: **29.060-451 (Rel-6)**
Comments: Nokia: This case is not needed to describe in 29.060. It's already described in 29.061 (Ga interface).
Huawei: GGSN behaviour is not clearly described 29.060.
Nortel: If we want to describe the behavior of GSN, 23.060 is the right place.
There wasn't support from other companies for CR
Huawei will continue discussion on CN4 email explorer.
Status: **POSTPONED to CN4#21**

8.2 Bearer independent architecture

No documents in this meeting

8.3 TrFO/Codec control

NP-030753 **LS on future codecs with same SDU format as existing codecs [NP-030310]; CN plenary**
Comments:
Status: **NOTED**

NP-030753 **Reply LS on future codecs with same SDU format as existing codecs [S4-030573]; SA4**
Comments:
Status: **NOTED**

NP-030871 **Clarification on codec modification; Siemens**
CR: **23.153-062**
Comments:
Status: **REVISED to N4-031032**

⇓ REVISED ⇓

NP-031032 **Clarification on codec modification; Siemens**
CR: **23.153-062r1**
Comments:
Status: **AGREED**

NP-030872 **Clarification on codec modification; Siemens**
CR: **23.153-063**
Comments:
Status: **REVISED to N4-031032**

⇓ REVISED ⇓

NP-031033 **Clarification on codec modification; Siemens**
CR: **23.153-063r1**
Comments:

Status: AGREED

NP-030873 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-064
Comments:
Status: REVISED to N4-030948

⇓ REVISED ⇓

NP-030948 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-064r1
Comments:
Status: WITHDRAWN

NP-030874 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-065
Comments:
Status: REVISED to N4-030949

⇓ REVISED ⇓

NP-030949 Handling of Codecs with same SDU sizes during codec modification; Siemens
CR: 23.153-065r1
Comments:
Status: WITHDRAWN

NP-030913 Clarification of IuUP Initialisation during codec modification; Nokia
CR: 23.153-066
Comments:
Status: REVISED to N4-031034

⇓ REVISED ⇓

NP-031034 Clarification of IuUP Initialisation during codec modification; Nokia, Ericsson, Lucent, Siemens
CR: 23.153-066r1
Comments:
Status: AGREED

NP-030914 Clarification of IuUP Initialisation during codec modification; Nokia
CR: 23.153-067
Comments:
Status: REVISED to N4-031034

⇓ REVISED ⇓

NP-031035 Clarification of IuUP Initialisation during codec modification; Nokia, Ericsson, Lucent, Siemens
CR: 23.153-067r1
Comments:
Status: AGREED

8.4 Location Services

No documents in this meeting

8.5 Any Other Business for Release 4 or Release 99

8.5.1 MAP specification

NP-030923 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-582r1 (Rel-4)**

Comments: Vodafone: Added text in chapter 5.2.2 is not needed.

Agreed by meeting

Status: **REVISED to N4-031041**

NP-031041 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-582r2 (Rel-4)**

Comments:

Status: **AGREED without presentation**

NP-031042 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-583r2 (Rel-5)**

Comments:

Status: **AGREED without presentation**

NP-031043 **Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"; HHS**

CR: **29.002-584r2 (Rel-6)**

Comments:

Status: **AGREED without presentation**

9 GSM maintenance

NP-030880 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A059 (R96)**

Comments: Nortel Networks: Consequences if not approved should be proved.

Status: **REVISED to N4-031044**

⇓ REVISED ⇓

NP-031044 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A059r1 (R96)**

Comments: Nortel Networks: Consequences if not approved should be proved.

Status: **AGREED without presentation**

NP-030881 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A060 (R97)**

Comments: This is a mirror CR.

Status: **REVISED to N4-031045**

⇓ REVISED ⇓

NP-031045 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A060r1 (R97)**

Comments:

Status: **AGREED as mirror CR**

NP-030882 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A061 (R98)**

Comments: This is a mirror CR.

Status: **REVISED to N4-031046**

⇓ REVISED ⇓

NP-031046 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **03.03-A061r1 (R98)**

Comments:

Status: **AGREED as mirror CR**

NP-030883 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-070 (R99)**

Comments:

Status: **AGREED as mirror CR**

NP-030884 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-070 (Rel-4)**

Comments:

Status: **AGREED as mirror CR**

NP-030885 **Correction to definition of Group ID, Group call area ID and Group Call Reference; Nortel Networks**

CR: **23.003-071 (Rel-5)**

Comments:

Status: **AGREED as mirror CR**

NP-030886 **Correction of encoding description of Group-Id; Nortel Networks**

CR: **09.02-A337 (R96)**

Comments:

Status: **REVISED to N4-031047**

⇓ REVISED ⇓

NP-031047 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A337r1 (R96)
Comments:
Status: AGREED without presentation

NP-030887 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A338 (R97)
Comments:
Status: REVISED to N4-031048

⇓ REVISED ⇓

NP-031048 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A338r1 (R97)
Comments:
Status: AGREED without presentation

NP-030888 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A339 (R98)
Comments:
Status: REVISED to N4-031049

⇓ REVISED ⇓

NP-031049 Correction of encoding description of Group-Id; Nortel Networks
CR: 09.02-A339r1 (R98)
Comments:
Status: AGREED without presentation

NP-030889 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-661 (R99)
Comments:
Status: REVISED to N4-031050

⇓ REVISED ⇓

NP-031050 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-661r1 (R99)
Comments:
Status: AGREED without presentation

NP-030890 Correction of encoding description of Group-Id; Nortel Networks
CR: 29.002-662 (Rel-4)
Comments:
Status: REVISED to N4-031051

⇓ REVISED ⇓

NP-031051 Correction of encoding description of Group-Id; Nortel Networks

CR: **29.002-662r1 (Rel-4)**
Comments:
Status: **AGREED without presentation**

NP-030891 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-663 (Rel-5)**
Comments:
Status: **REVISED to N4-031052**

⇓ REVISED ⇓

NP-031052 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-663r1 (Rel-5)**
Comments:
Status: **AGREED without presentation**

NP-030892 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-664 (Rel-6)**
Comments:
Status: **REVISED to N4-031053**

⇓ REVISED ⇓

NP-031053 **Correction of encoding description of Group-Id; Nortel Networks**
CR: **29.002-664r1 (Rel-6)**
Comments:
Status: **AGREED without presentation**

10 AOB

11 Update of the Work Plan

Work Plan will be updated after meeting by MCC support and chairman

12 Future meetings

NP-030741 **Future meetings; Nortel Networks**
Comments: The meeting decided: An additional meeting is not needed at this point.
Status: **NOTED**

Comments: The PCG has decided that in order to reduce cost, there will be a restriction on the amount of MCC support provided to 3GPP working groups.
The plan is to have one MCC supported WG meeting in between each pair of plenary meetings.
Any additional WG meeting will not have the guarantee of MCC support.
Working groups can request exceptional MCC support for additional WG meetings from the PCG (via Stephen Hayes).
There was also support to leave at least 2 weeks between WG meetings and the Plenary.

TITLE	TYPE	DATES	LOCATION	CTRY
3GPPCN#21	OR	17 - 19 Sep 2003	Frankfurt	DE

3GPPCN1 - CN4 co-located meetings	WG	27 - 31 Oct 2003	Bangkok	Thailand
3GPPCN#22	OR	10 - 12 Dec 2003	Maui, Hawaii	USA
3GPPCN1 - CN4 co-located meetings	WG	16 - 20 Feb 2004	New York/Atlanta ??	USA???
3GPPCN#23	OR	10 - 12 Mar 2004	TBC	USA
3GPPCN1 - CN4 co-located meetings	WG	10 - 14 May 2004	Dubrovnik	Croatia
3GPPCN#24	OR	2 - 4 Jun 2004	KOREA	South Korea
3GPPCN1 - CN4 co-located meetings	WG	16 - 20 Aug 2004	Sophia Antipolis	France
3GPPCN#25	OR	8 - 10 Sep 2004	US	USA
3GPPCN1 - CN4 co-located meetings	WG	15 - 19 Nov 2004	Asia??	ASIA???
3GPPCN#26	OR	8 - 10 Dec 2004	Athens	Greece

13 Check of approved output documents

NP-030738 **Output documents; Chairman**

Comments: After meeting Vodafone delegate noticed that N4-030744 and N4-030745 were missing from approved CRs list. MCC support added these 2 documents on the list.

Status: **APPROVED**

14 Closing of the meeting (15:30 Friday)

Meeting was closed exactly 15:30.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
N4-031013	LS on sending the SGSNs MNC and MCC to the GGSN and service node	SA5, SA2	SA1, CN3, T2, GSMA BARG CPWP	
N4-031020	LS to SA1 on GUP work in CN4	SA1	SA2	
N4-031037	THIS LS will send after CN#21 if a one CR is approved in CN plenary			
N4-031039	Reply to LS on Emergency Services Routing Based on Interim Position	SA2, T1P1	SA1	N4-031038
N4-031061	LS Response on Stage 3 level specification directions for support for subscriber certificate work item	SA3, CN1		
N4-031062	LS on Clarification on Presence Service Matters	SA1, SA2	CN2	
N4-031063	Reply LS on P-TMSI signature validation functionality in R99	SA2	CN1	

A.2 New TSs /TRs Approved (to be placed under change control)

TDoc #	Type	Spec	Tdoc Title	N_Versio	Source
N4-030977	3GPP TS	29.234	3GPP System to WLAN Interworking; stage 3 description	1.0.0	Editor

A.3 New / Revised Work Items Approved

Tdoc	Tdoc Title	Source	Rel
N4-030906	Support for subscriber certificates, stage 3	Nokia	Rel-6

A.4 Approved CRs

Tdoc N4-03	Title	Source	Result
0744	CR 29.002 638 Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	Approved
0745	CR 29.002 639 Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	Approved
0746	CR 29.002 640 Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	Approved
0747	CR 29.002 641 Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	Approved
0748	CR 29.002 642 Removal of SIWF description	Vodafone	Approved
0749	CR 29.002 643 Deletion of redundant Annex D	Vodafone	Approved
0785	CR 29.002 644 Removal of tables in section 7.6	Nortel Networks	Approved
0804	CR 29.002 596 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0805	CR 29.002 597 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0806	CR 29.002 xxx Correction of References	Siemens	Approved
0808	CR 29.060 432 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0809	CR 29.060 433 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0810	CR 29.060 434 Correction of incorrect reference to a withdrawn specification	Lucent Technologies	Approved
0814	CR 23.012 012 Correction of misaligned signal names between VLR and PVLR	Vodafone	Approved
0815	CR 29.002 653 Correction of wrong AC name in the table in 17.1.6	Vodafone	Approved
0816	CR 29.060 435 Correction of incorrect reference	Lucent Technologies	Approved
0824	CR 29.002 654 New LCS Service Types	Siemens	Approved
0826	CR 29.002 656 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0827	CR 24.080 029 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0828	CR 29.002 657 Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	Approved
0831	CR 29.228 052 Sharing public identities across multiple UEs	Nokia	Approved
0845	CR 23.018 128 Corrections to "Early UE" handling	Vodafone	Approved
0866	CR 29.010 091 Addition of Early UE specific cause code mapping	Nokia	Approved
0883	CR 23.003 070 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
0884	CR 23.003 071 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
0885	CR 23.003 072 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved

0921	CR 29.002 646 UESBI format	Siemens	Approved
0922	CR 29.002 647 UESBI format	Siemens	Approved
0951	CR 29.002 xxx SS-Barring Category	Siemens	Approved
0952	CR 29.002 636 Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	Approved
0953	CR 29.002 637 r1 Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	Approved
0959	CR 23.018 132 Removal of SIWF material	Vodafone	approved
0978	CR 23.079 025 Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	Approved
0984	CR 23.066 026 Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	Approved
1068	CR 29.002 615r2 Incorrect Charging With MNP	LM Ericsson	Approved
1069	CR 29.002 616 r2 Incorrect Charging With MNP	LM Ericsson	Approved
0987	CR 23.066 024 SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	Approved
0991	CR 29.228 041r1 Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	Approved
0995	CR 29.228 051r2 Mistakes in the XML schema of 29.228-540	Orange	Approved
0997	CR 29.228 042r1 Error in S-CSCF Assignment Type	Siemens	Approved
0998	CR 28.228 055r1 Extensibility of the public identity structure in the XML schema	Nokia	Approved
0999	CR 29.229 022r1 Correction on the PPR command code	Ericsson	Approved
1000	CR 29.328 032r2 Incorrect message flow in 29.328	Orange	Approved
1002	CR 29.328 035 Mistakes in the XML schema of 29.328-540	Orange	Approved
1003	CR 29.060 454 Change of Early UE feature to PUESBINE	Vodafone	Approved
1004	CR 29.060 455 Change of Early UE feature to PUESBINE	Vodafone	Approved
1005	CR 23.012 013r1 Corrections to "Early UE" handling	Vodafone	Approved
1006	CR 29.002 650 Add SGSN, GGSN and GMLC to network resource parameter	NEC	Approved
1011	CR 29.060 436 Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	Approved
1016	CR 29.060 xxx GTP Cause Modification	Huawei Technologies Co., Ltd.	Approved
1032	CR 23.153 062 Clarification on codec modification	Siemens	Approved
1033	CR 23.153 063 Clarification on codec modification	Siemens	Approved
1034	CR 23.153 066 Clarification of IuUP Initialisation during codec modification	Nokia, Lucent, Siemens, Ericsson	Approved
1035	CR 23.153 067 Clarification of IuUP Initialisation during codec modification	Nokia, Lucent, Siemens, Ericsson	Approved
1036	CR 23.003 074 Changes to enable the GSMA root DNS architecture	Vodafone	Approved

1038	CR 29.002 645 Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	Approved
1041	CR 29.002 582r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1042	CR 29.002 583r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1043	CR 29.002 584r1 Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Approved
1044	CR 03.03 A059 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	Approved
1045	CR 03.03 A060 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
1046	CR 03.03 A061 Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	Approved
1047	CR 09.02 A337 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1048	CR 09.02 A338 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1049	CR 09.02 A339 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1050	CR 29.002 661 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1051	CR 29.002 662 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1052	CR 29.002 663 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1053	CR 29.002 664 Correction of encoding description of Group-Id	Nortel Networks, Siemens	Approved
1054	CR 29.060 453r2 GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	Approved
1055	CR 23.079 026 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	Approved
1056	CR 29.002 659 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	Approved
1057	CR 29.002 660 Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	approved
1058	CR 29.002 613 SCUDIF HLR Interrogation	LM Ericsson	Approved
1059	CR 29.002 614 SCUDIF HLR Interrogation	LM Ericsson	Approved
1060	CR 23.003 073r2 PSI definition	Ericsson	Approved
1064	CR 29.010 092r1 Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	Approved
1066	CR 23.008 122 Addition of list of authorized visited network identifiers	Orange	Approved
1067	CR 29.328 033 Correction of Sh data definition in Annex C and D.	HP, Siemens	Approved

ANNEX B Tdoc List with Status

TDoc #	Age	Type	Title	Source	WI	CR	R	C	Spec	Rel	Versio	Revision	Conclusion
N4-030731	1	Agenda	Preliminary agenda for CN4 #20	CN4 chairman									Revised to N4-030732
N4-030732	1	Agenda	Detailed agenda & time plan for CN4 #20: status at document deadline	CN4 chairman									Revised to N4-030733
N4-030733	1	Agenda	Detailed agenda & time plan for CN4 #20: status on eve of meeting	CN4 chairman									Approved
N4-030734	2	DAD	Proposed allocation of documents to agenda items for CN4 #20: status at document deadline	CN4 chairman									Revised to N4-030735
N4-030735	2	DAD	Proposed allocation of documents to agenda items for CN4 #20: status on eve of meeting	CN4 chairman									Approved
N4-030736		DAD	Proposed allocation of documents to agenda items for joint session with CN2 on CAMEL	CN4 chairman									Approved
N4-030737	3.2	Report	Summary report from CN #20 & SA #20, Hämeenlinna, FINLAND	CN4 chairman									Noted
N4-030738	13	Info	List of approved output documents	CN4 chairman									Approved
N4-030739	3.1	Report	CN4#19 meeting report San Diego, USA	MCC									Approved
N4-030740	10	WP	Work Plan	MCC									Noted
N4-030741	11	Info	Future meetings	MCC									Noted
N4-030742	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636		F	29.002	5	5.6.0		Revised to N4-030822
N4-030743	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	637		A	29.002	6	6.2.0		Revised to N4-030953
N4-030744	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	638		F	29.002	5	5.6.0		Revised
N4-030745	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	639		A	29.002	6	6.2.0		Revised
N4-030746	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	TEI_5	640		F	29.002	5	5.6.0		Agreed
N4-030747	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 21	Vodafone	TEI_5	641		A	29.002	6	6.2.0		Agreed
N4-030748	6.9	CR	Removal of SIWF description	Vodafone	TEI_6	642		F	29.002	6	6.2.0		Agreed

N4-030749	6.9	CR	Deletion of redundant Annex D	Vodafone	TEI_6	643		D	29.002	6	6.2.0		Agreed
N4-030750	6.5	CR	Enhancements for the Partial Implementation for Enhanced Dialled Services	Alcatel	EDCAME L	525		B	29.002	Rel-6	6.2.0		Noted
N4-030751	4 7.9	Input LS	LS on Stage 3 work for Early UE handling	GERAN2	Vodafone	to:				Rel-5		G2-030437	Noted
N4-030752	4 7.7	Input LS	LS on MNP	CN	Nortel Networks	to:				Rel-5		NP-030301	Noted
N4-030753	4 8.3	Input LS	LS on future codecs with same SDU format as existing codecs	CN	Siemens	cc:				Rel-4		NP-030310	Noted
N4-030754	4	Input LS	LS on Core Network Provision of separate flows for P2P and P2M radio Transmission and Minimum UE Capability Required for Supporting MBMS	RAN1	Vodafone	cc:				Rel-6		R1-030630	Noted
N4-030755	4	Input LS	Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission	RAN2	Nortel Networks	cc:				Rel-6		R2-0301483	Noted
N4-030756	4 8.4	Input LS	Liaison Statement on “Emergency Services Routing Based on Interim Position”	SA1	Nortel Networks	to:				R99		S1-030832	Noted
N4-030757	4 7.6	Input LS	LS on CAMEL interactions with SCUDIF	SA1	NTT DoCoMo	to:				Rel-5		S1-030964	Noted
N4-030758	4 6.1	Input LS	LS on SMS/MMS Interworking from WLANs	SA1	Interdigital	cc:				Rel-6		S1-030967	Noted
N4-030759	4	Input LS	LS on CS interconnect charging for multi-media services (Video telephony)	SA1	Vodafone	cc:				Rel-6		S1-030979	Noted
N4-030760	6.2	Input LS	LS on usage of GUP reference points	SA2	Nokia	cc:				Rel-6		S2-032679	Noted
N4-030761	4	Input LS	LS on Security issues regarding multiple PDP contexts in GPRS	SA2	Vodafone	cc				Rel-6		S2-032680	Noted
N4-030762	4 7.9	Input LS	LS on inconsistency between UESBI-Iu definition in MAP and RANAP	SA2	Vodafone	to:				Rel-5		S2-032713	Noted
N4-030763	4 7.9	Input LS	LS on minor issues identified by SA 2 during a review of the stage 3 CRs for the Early UE feature	SA2	Vodafone	to:				Rel-5		S2-032714	Noted
N4-030764	4	Input LS	LS on modification of the LDR event types	SA2	Siemens	cc:				Rel-5		S2-032722	Noted
N4-030765	4 7.10	Input LS	LS on the length of “LCS RequestorID” and “LCS Codeword”	SA2	Ericsson	to:				Rel-5		S2-032725	Noted
N4-030766	4 6.1	Input LS	LS on 802.11i / WPA and RADIUS to Diameter co-existence analysis and recommendations for WLAN interworking	SA2	Ericsson	to:				Rel-6		S2-032727	Noted
N4-030767	4	Input LS	IPv4 and IPv6 form of Charging Gateway Address	SA2	Alcatel	to:				Rel-5		S2-032738	Noted

N4-030768	4	Input LS	LS Response to "Inclusion of IMS Signalling Indicator in S-CDR"	SA2	Ericsson/ Vodafone	cc:				Rel-5		S2-032741	Noted
N4-030769	4	Input LS	Reply to LS on Core Network Provision of separate flows for P2P and P2M radio Transmission	SA4	NTT DoCoMo	cc:				Rel-5		S4-030558	Noted
N4-030770	4 8.3	Input LS	Reply to LS on future codecs with same SDU format as existing codecs	SA4	Nokia	to:				Rel-4		S4-030573	Noted
N4-030771	4	Input LS	LS on usage of GUP reference points	SA5	T-Mobile	cc:				Rel-6		S5-032227r5	Noted
N4-030772	4	Input LS	LS on "Inclusion of IMS Signalling Indicator in S-CDR"	SA5	Nortel Networks	to:				Rel-5		S5-034312	Noted
N4-030773	4	Input LS	LS on possible re-organisation of 3GPP charging specification work	SA5	Motorola/ T-Mobil/ Vodafone	to:				Rel-6		S5-034444	Noted
N4-030774	4 8.1	Input LS	LS reply on sending the SGSNs MNC and MCC to the GGSN and service node	SA5	Nortel Networks	to:				R97		S5-034449	Noted
N4-030775	4	Input LS	LS reply for R99 and following on video telephony	SA5	Nokia	cc:				R99		S5-034450	Noted
N4-030776	4 6.1	Input LS	Re: LS on SMS/MMS Interworking from WLANs	T2	Nokia	cc:				Rel-6		T2-030316	Noted
N4-030777	4	Input LS	LS - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks	T2	Teleca	cc:						T2-030364	Noted
N4-030778	4	Input LS	Liaison to 3GPP from AT-F - Proposal for Interconnection between a FSMSC and SMSCs/FSMSCs in other networks	AT-F	Skanova	to:						ETSI/AT(03)TD16R00	Noted
N4-030779	4	Input LS	EC Recommendation and explanatory note on the requirements for location information in emergency calls	The European Comission		cc:						IP/03/1122	Noted
N4-030780	6.6	DISC	GTP Path Failure Recovery	Nortel Networks									Noted
N4-030781	6.6	CR	Enhancement of Recovery IE to reduce number of dangling PDP Contexts	Nortel Networks	GTP Enhancements	431		C	29.060	6	6.1.0		Withdrawn
N4-030782	6.6	CR	Change of Restart Counter definition for enhanced GTP recovery procedures	Nortel Networks	GTP Enhancements	008		C	23.007	6	5.0.0		Withdrawn
N4-030783	7.7	DISC	MNP/ CAMEL Pre-Paid MNP-SRF solution	Nortel Networks, Ericsson									Noted
N4-030784	7.7	CR	Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	MNP	026		F	23.066	5	5.1.0		Revise to N4-03984
N4-030785	6.9	CR	Removal of tables in section 7.6	Nortel Networks	TEI6	644		D	29.002	6	6.2.0		Agreed
N4-030786	6.10	CR	Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	LCS2	645		B	29.002	6	6.2.0		Revised to N4-031038

N4-030787	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122		F	23.008	5	5.5.0		Revised to N4-030994
N4-030788	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032		F	29.328	5	5.4.0		Revised to N4-030821
N4-030789	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051		F	29.228	5	5.4.0		Revised to N4-030963
N4-030790	6.1	DISC	TS 29.234, 3GPP AAA Proxy Translation Agent detailed behaviour	Nokia	WLAN								Approved
N4-030791	6.1	DISC	TS 29.234, Wr Procedure Description	Nokia	WLAN								Approved
N4-030792	6.1	DISC	TS 29.234, 3GPP AAA Server behaviour when Interworking with RADIUS/DIameter clients	Nokia	WLAN								Approved
N4-030793	6.1	DISC	TS 29.234, Ws Procedure Description	Nokia	WLAN								Approved
N4-030794	6.1	DISC	TS 29.234, Wx based on Cx	Nokia	WLAN								Withdrawn
N4-030795	6.1	DISC	TS 29.234, Wx message contents	Nokia	WLAN								Withdrawn
N4-030796	6.1	DISC	TS 29.234, Wx diagrams flows	Nokia	WLAN								Withdrawn
N4-030797	6.3	CR	Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	PRESNC	041	1	B	29.228	6	5.4.0		Revised to N4-030991
N4-030798	6.3	CR	Introduction of Presence Stage 3 (Ph) to the Sh interface	Lucent Technologies	PRESNC	026	1	B	29.328	6	5.4.0		Postponed to next meeting
N4-030799	7.11	CR	MSC/VLR Transparency for Call Forwarding Supplementary Services	Lucent Technologies	TEI5	015		F	23.082	5	5.0.0		Rejected
N4-030800	7.9	CR	UESBI format	Siemens	LATE UE	646		F	29.002	Rel-5	5.6.2		Revised to N4-030921
N4-030801	7.9	CR	UESBI format	Siemens	LATE UE	647		A	29.002	Rel-6	6.2.0		Revised to N4-030922
N4-030802	6.9	CR	Message Segmentation Mechanisms	Siemens	TEI6	648		D	29.002	Rel-6	6.2.0		Postponed to next meeting
N4-030803	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	024	-	B	23.066	Rel-5	5.0.0		Revised to N4-030987
N4-030804	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	596	1	B	29.002	Rel-5	5.6.2		Agreed
N4-030805	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	597	1	B	29.002	Rel-6	6.2.0		Agreed

N4-030806	6.9	CR	Correction of References	Siemens	TEI6	649		F	29.002	Rel-6	6.2.0		Agreed
N4-030807	7.1.1	CR	Error in S-CSCF Assignment Type	Siemens	IMS-CCR	042	2	F	29.228	Rel-5	5.4.0		Revised to N4-030997
N4-030808	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	432		**F**	29.060	4	4.8.0		Agreed
N4-030809	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	433		**A**	29.060	5	5.8.0		Agreed
N4-030810	8.1	CR	Correction of incorrect reference to a withdrawn specification	Lucent Technologies	TEI4	434		A	29.060	6	6.1.0		Agreed
N4-030811	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033		F	29.328	5	5.4.0		Revised to N4-031001
N4-030812	7.8	CR	Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message.	HP	TEI5	651		F	29.002	5	5.6.2		Postponed to CN4#21
N4-030813	7.8	CR	Correction of the use of parameters (mandatory vs. optional) in MAP Authentication Failure Report message.	HP	TEI6	652		F	29.002	6	6.4.0		Postponed to CN4#21
N4-030814	7.8	CR	Correction of misaligned signal names between VLR and PVLR	Vodafone	TEI5	012		F	23.012	5	5.0.0		Agreed
N4-030815	6.9	CR	Correction of wrong AC name in the table in 17.1.6	Vodafone	TEI6	653		D	29.002	6	6.2.0		Agreed
N4-030816	8.1	CR	Correction of incorrect reference	Lucent Technologies	TEI	435		F	29.060	R99	3.17.0		Agreed
N4-030817	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	GTP Enhancements	436		F	29.060	6	6.1.0		Revised to N4-031011
N4-030818	6.10	CR	Positioning Data for UTRAN LCS	Nortel Networks, AWS	LCS2	655		F	29.002	6	6.2.0		Revised to N4-031040
N4-030819	6.11	CR	Add SGSN, GGSN and GMLC to network resource parameter	NEC	TEI-6	650		F	29.002	R6	6.2.0		Revised to N4-031006
N4-030820													
N4-030821	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032	1	F	29.328	5	5.4.0	N4-030788	Revised to N4-031000
N4-030822	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636	1	F	29.002	5	5.6.0		Revised to N4-030952
N4-030823	7.1.1	CR	XML schema correction	Siemens	IMS-CCR	034		F	29.328	Rel-5	5.4.0		Withdrawn
N4-030824	6.10	CR	New LCS Service Types	Siemens	LCS	654		B	29.002	Rel-6	6.2.0		Agreed

N4-030825	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035		F	29.328	5	5.4.0		Revised to N4-030964
N4-030826	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	656		F	29.002	5	5.6.2		Agreed
N4-030827	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	029		F	24.080	5	5.3.0		Agreed
N4-030828	7.10	CR	Reduce maximum length of "LCS Requestor ID" and "LCS Codeword".	ERICSSON L.M.	LCS1	657		A	29.002	6	6.2.0		Agreed
N4-030829	7.2	CR	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	CAMEL4	025	3	F	23.079	5	5.2.0		Revised to N4-030978
N4-030830	6.4	DISC	Version control in Cx and Sh	Nokia									Postponed
N4-030831	6.4.1	CR	Sharing public identities across multiple UEs	Nokia	IMS2-CCR	052		B	29.228	6	5.4.0		Agreed
N4-030832	6.4.2	CR	Dh interface	Nokia	IMS2-CCR	036		B	29.328	6	5.4.0		Postponed to CN4#21
N4-030833	6.4	CR	Originating S-CSCF name	Nokia	IMS2-CCR	123		**B**	23.008	6	5.5.0		Revised to N4-030993
N4-030834	6.4.1	CR	Originating S-CSCF name	Nokia	IMS2-CCR	053		B	29.228	6	5.4.0		Postponed to CN4#21
N4-030835	6.4.1	CR	Originating S-CSCF name	Nokia	IMS2-CCR	020		B	29.229	6	5.4.0		Postponed to CN4#21
N4-030836	6.4.2	CR	Originating S-CSCF name	Nokia	IMS2-CCR	037		B	29.328	6	5.4.0		Postponed to CN4#21
N4-030837	7.1.1	CR	The S-CSCF name needs to be checked always in MAR	Nokia	IMS-CCR	054		F	28.228	5	5.4.0		Revised to N4-030954
N4-030838	7.1.1	CR	The S-CSCF name needs to be checked always in MAR and SAR	Nokia	IMS-CCR	021		F	29.229	5	5.4.0		Postponed
N4-030839	7.1.1	CR	Extensibility of the public identity structure in the XML schema	Nokia	IMS-CCR	055		F	28.228	5	5.4.0		Revised to N4-030998
N4-030840	6.5	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAME L	553	1	B	23.078	Rel-6	5.4.0		Noted
N4-030841 N2-030319	6.5	CR	Collective CR for Rel-6 Enhanced Dialled Services	Nokia	EDCAME L	126		B	23.018	Rel-6	5.7.0		Noted
N4-030842 N2-030377	7.6	CR	One step HLR enquiry for SCUDIF	Nokia	SCUDIF	127		F	23.018	Rel5	5.7.0		Withdrawn
N4-030843	7.6	CR	One step HLR enquiry for SCUDIF – CSI criteria	Nokia	SCUDIF			B	23.078	Rel-5	5.4.0		Withdrawn
N4-030844	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	013		F	23.012	5	5.1.0		Revised to N4-031005
N4-030845	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	128		F	23.018	5	5.7.0		Agreed

N4-030846	7.6	DISC	Should SCUDIF have a single basic service code?	Vodafone									Noted
N4-030847	6.3	CR	Assingment of SSN value for Presence Network Agent	NTT DoCoMo	Presenc	069		B	23.003	R6	5.6.0		Postponed to CN4#21
N4-030848	6.3	CR	Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info	NTT DoCoMo	Presenc	658		B	29.002	R6	6.2.0		Revised to N4-030960
N4-030849	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130		B	23.018	R6	5.7.0		Revised to N4-030961
N4-030850	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660		A	29.002	R6	6.2.0		Revised to N4-031017
N4-030851	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659		F	29.002	R5	5.6.2		Revised to N4-031007
N4-030852	7.6	CR	Repeat subscription checking regarding SCUDIF	NTT DoCOMo	SCUDIF	129		F	23.018	R5	5.7.0		Revised to N4-031008
N4-030853 N2-030383	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0		Revised to N4-030955
N4-030854	7.3	DISC	Correction to reduce number of hanging PDP Contexts in GGSN	LM Ericsson	-			-	29.060	-	-		Noted
N4-030855	7.3	CR	Introduction of IMSI in the Delete PDP Context Request message	LM Ericsson	TEI	437		F	29.060	5	5.6.0		Withdrawn
N4-030856	7.3	CR	Introduction of IMSI in the Delete PDP Context Request message	LM Ericsson	TEI	438		A	29.060	6	6.1.0		Withdrawn
N4-030857	8.1	DISC	Discussion paper on GTP usage of UDP Source and Destination port	LM Ericsson	-			-	29.060	-	-		Noted
N4-030858	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	439		F	29.060	99	3.17.0		Withdrawn
N4-030859	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	440		A	29.060	4	4.8.0		Withdrawn
N4-030860	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	441		A	29.060	5	5.6.0		Withdrawn
N4-030861	8.1	CR	GSN nodes to listen for Error Indication, Version Not Supported and Supported Extension Headers Notification messages on several UDP ports	LM Ericsson	TEI	442		A	29.060	6	6.1.0		Withdrawn

N4-030862	8.1	CR	Clarification on Request and Response messages w.r.t. protocol error handling and port allocation	LM Ericsson	TEI	443		F	29.060	6	6.1.0		Withdrawn
N4-030863	6.11.1	Disc & approval	Introduction to MBMS	3	MBMS								Agreed
N4-030864	6.11.1	WID	MBMS	3									Endorsed by CN4
N4-030865	6.11.1.	CR	Overview changes to 29.060 for MBMS	3	MBMS	444			29.060	6	6.1.0		Postponed to Next meeting
N4-030866	7.9	CR	Addition of Early UE specific cause code mapping	Nokia	LATE_UE	091		F	29.010	Rel-5	5.3.1		Agreed
N4-030867	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092		F	29.010	Rel-6	5.3.1		Revised to N4-030992
N4-030868	7.1.1	CR	Correction on the PPR command code	Ericsson	IMS	022		F	29.229	R5	5.4.0		Revised to N4-030999
N4-030869	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0		Revised to N4-030996
N4-030870	6.4.1	INFO	Status of DMA IETF draft	Ericsson									Noted
N4-030871	8.3	CR	Clarification on codec modification	Siemens	OoBTC	062		F	23.153	4	4.8.0		Revised to N4-031032
N4-030872	8.3	CR	Clarification on codec modification	Siemens	OoBTC	063		A	23.153	5	5.5.0		Revised to N4-031033
N4-030873	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	064		F	23.153	4	4.8.0		Revised to N4-030948
N4-030874	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	065		A	23.153	5	5.5.0		Revised to N4-030949
N4-030875	6.9	CR	Correction of serviceTerminationContext to immediateTerminationContext	Vodafone	TEI_6	665		D	29.002	6	6.1.0		Withdrawn
N4-030876	7.11	CR	Changes to enable the GSMA root DNS architecture	Vodafone	TEI_5	074		F	23.003	5	5.6.0		Revised to N4-031036
N4-030877	6.9	CR	Optionality of the ProcessUnstructuredSS-Request Operation Result	Lucent Technologies	TEI6			F	29.002	6	6.2.0		Withdrawn
N4-030878	6.6	DISC	GTP Diagnostic Information	Nortel Networks, Vodafone									Noted
N4-030879	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks, Vodafone	GTP Enhancements	392	2	F	29.060	6	6.1.0		Withdrawn
N4-030880	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	ASCI	A059		F	03.03	96	5.4.1		Revised to N4-031044
N4-030881	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A060		A	03.03	97	6.7.0		Revised to N4-031045

N4-030882	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A061		A	03.03	98	7.7.0		Revised to N4-031046
N4-030883	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	070		A	23.003	99	3.12.0		Agreed
N4-030884	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	071		A	23.003	4	4.6.0		Agreed
N4-030885	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	072		A	23.003	5	5.6.0		Agreed
N4-030886	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A337		F	09.02	96	5.18.0		Revised to N4-031047
N4-030887	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A338		A	09.02	97	6.13.0		Revised to N4-031048
N4-030888	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A339		A	09.02	98	7.13.0		Revised to N4-031049
N4-030889	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	661		A	29.002	99	3.17.0		Revised to N4-031050
N4-030890	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	662		A	29.002	4	4.12.0		Revised to N4-031051
N4-030891	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	663		A	29.002	5	5.6.2		Revised to N4-031052
N4-030892	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	664		A	29.002	6	6.2.0		Revised to N4-031053
N4-030893	6.4	DISC	Version Control for IMS	Nortel Networks									Withdrawn
N4-030894	7.7	DISC	SRF Based MNP Charging Solution	LM Ericsson	CAMEL4								Withdrawn
N4-030895	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	1	F	29.002	5	5.6.2		Revised to N4-030985
N4-030896	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	1	A	29.002	6	6.2.0		Revised to N4-030986
N4-030897	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	025	1	F	23.066	5	5.1.0		Withdrawn
N4-030898	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	530	1	F	23.078	5	5.4.0		Noted
N4-030899	11	Meeting Invitation	CN4#21 meetinginvitation - Bangkok, Thailand	MCC									Noted
N4-030900	7.6	DISC	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF								Revised to N4-031021

N4-030901	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	011	1	F	23.172	5	5.1.0		Revised to N4-031022
N4-030902	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	1	F	29.002	5	5.6.2		Revised to N4-031023
N4-030903	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	1	A	29.002	6	6.2.0		Revised to N4-031024
N4-030904	7.6	DISC	CAMEL Interractions For SCUDIF In Release 5	LM Ericsson									Noted
N4-030905	7.6	CR	SCUDIF Impacts to Basic Call	LM Ericsson	SCUDIF	131		F	23.018	5	5.7.0		Withdrawn
N4-030906	5	WID	Support for subscriber certificates, stage 3	Nokia	SEC1-SC								Approved
N4-030907	6.2	DISC	TS 29.240, Main concept	Nokia	GUP								Approved
N4-030908	6.2	DISC	TS 29.240, Profile Schema	Nokia	GUP								Approved
N4-030909	6.2	DISC	TS 29.240, Rp Definition	Nokia	GUP								Email discussion until 26th September
N4-030910	6.2	LS OUT	LS to SA1 on GUP work in CN4	Nokia	GUP								Revised to N4-0301020
N4-030911	6.6	CR	Robust authentication during Attach and RAU	Nokia	TEI6	445		F	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030912	6.7	DISC	TS 29.332, Mandatory IMS packages	Nokia	IMS-CCR-Mn								Revised to N4-030975
N4-030913	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	066		F	23.153	Rel-4	4.8.0		Revised to N4-031034
N4-030914	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	067		F	23.153	Rel-5	5.5.0		Revised to N4-031035
N4-030915	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	068		F	23.153	5	5.5.0		Revised to N4-031027
N4-030916	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	667		F	29.002	5	5.6.2		Revised to N4-031029
N4-030917	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	668		A	29.002	6	6.2.0		Revised to N4-031030
N4-030918	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	069		F	23.153	5	5.5.0		Revised to N4-031028
N4-030919	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	669		F	29.002	5	5.6.2		Revised to N4-030990
N4-030920	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	670		A	29.002	6	6.2.0		Revised to N4-031026
N4-030921	7.9	CR	UESBI format	Siemens	LATE UE	646		F	29.002	Rel-5	5.6.2	N4-030800	Agreed

N4-030922	7.9	CR	UESBI format	Siemens	LATE UE	647		A	29.002	Rel-6	6.2.0	N4-030801	Agreed
N4-030923	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	582	1	F	29.002	Rel-4	4.12.0		Revised to N4-031041
N4-030924	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	583	1	A	29.002	Rel-5	5.6.2		Revised to N4-031042
N4-030925	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	584	1	A	29.002	Rel-6	6.2.0		Revised to N4-031043
N4-030926	4	Input LS	Stage 3 level specification directions for support for subscriber certificate work item	SA3	Nokia	to:				Rel-6		S3-030469	Noted
N4-030927	4	Input LS	LS on new interface names	SA3	Nokia	cc:				Rel-6		S3-030471	Noted
N4-030928	4 6.4.1	Input LS	Reply to LS N4-030722 (=S3-030337) on adapting Cx interface protocols for security purposes	SA3	Siemens	to:				Rel-6		S3-030473	Noted
N4-030929	4	Input LS	LS reply on Rel-6 Subscriber and Equipment Trace impacts to the Core Network	SA5	Nokia	to:				Rel-6		S5-038444	Postponed to CN4#21
N4-030930	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	026		F	23.079	R5	5.2.0		Revised to N4-1054
N4-030931	6.4	DISC	Version Control for Cx/Sh	Ericsson									Postponed to CN4#21
N4-030932	4	Input LS	LS on DNS Top Level Domains used in 3GPP TS 23.003	GSMA IREQ	Vodafone					As earliest as possible		xxx?	Noted
N4-030933	7.6	CR	Repeat subscription checking in MO SCUDIF call	NTT DoCOMo	SCUDIF			F	23.172	R5	5.1.0		Revised to N4-031009
N4-030934	6.1	DISC	TS 29.234, Add HLR and CGF to network element entities	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030935	6.1	DISC	TS 29.234, Addition of D' reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030936	6.1	DISC	TS 29.234, Addition of Wb reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030937	6.1	DISC	TS 29.234, Addition of Wc reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030938	6.1	CR	TS 29.234, Addition of Wf reference point	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn

N4-030939	6.1	CR	TS 29.234, Supplement of Radius based Wr reference point description	China Mobile, Huawei	WLAN				29.234	Rel-6	0.1.0		Withdrawn
N4-030940	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI4			F	29.060	Rel-4	4.8.0		Withdrawn
N4-030941	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI5			A	29.060	Rel-5	5.6.0		Withdrawn
N4-030942	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6			A	29.060	Rel-6	6.1.0		Revised to N4-031014
N4-030943	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI4			F	29.060	Rel-4	4.8.0		Withdrawn
N4-030944	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI5			A	29.060	Rel-5	5.6.0		Withdrawn
N4-030945	8.1	CR	GGSN Handling of Delete PDP Response	Huawei Technologies Co., Ltd.	TEI6			A	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030946	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI5	452		F	29.060	Rel-5	5.6.0		Withdrawn
N4-030947	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453		A	29.060	Rel-6	6.1.0		Revised to N4-031012
N4-030948	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	064	1	F	23.153	4	4.8.0	N4-030873	Withdrawn
N4-030949	8.3	CR	Handling of Codecs with same SDU sizes during codec modification	Siemens	OoBTC	065	1	A	23.153	5	5.5.0	N4-030874	Withdrawn
N4-030950	7.6	CR	Supplementary service interaction with SCUDIF calls	NTT DoCoMo	SCUDIF	014		F	23.172	R5	5.1.0		Revised to N4-031010
N4-030951	6.9	CR	SS-Barring Category	Siemens	TEI			D	29.002	Rel-6	6.2.0		Agreed
N4-030952	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	636	1	F	29.002	5	5.6.0	N4-030822	Agreed
N4-030953	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 19	Vodafone	TEI_5	637	1	A	29.002	6	6.2.0	N4-030743	Agreed
N4-030954	7.1.1	CR	The S-CSCF name needs to be checked always in MAR	Nokia	IMS-CCR	054	1	F	28.228	5	5.4.0	N4-030837	Postponed to CN4#21
N4-030955	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0	N4-030853	Revised to N4-031018
N4-030956	4	DISC	CN's view on possible re-organisation of 3GPP charging specification work	CN4 Chairman									Noted
N4-030957	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	638	1	F	29.002	5	5.6.0		Withdrawn

N4-030958	7.8	CR	Provision of SDL diagrams and removal of redundant text in chapter 20	Vodafone	TEI_5	639	1	A	29.002	6	6.2.0		Withdrawn
N4-030959	6.11	CR	Removal of SIWF material	Vodafone	TEI_6	132			23.018	6	5.7.0		Agreed
N4-030960	6.3	CR	Addintion of Presence-releated Ies to Any Time Interrogation and Provide Subscriber Info	NTT DoCoMo	Presenc	658	1	B	29.002	R6	6.2.0	N4-030848	Postponed to CN4#21
N4-030961	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130	1	B	23.018	R6	5.7.0	N4-030848	Revised to N4-031019
N4-030962	4	DISC	Future Location of Work on Charging Standardisation	Nortel Networks									Noted
N4-030963	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051		F	29.228	5	5.4.0	N4-030789	Revised to N4-030995
N4-030964	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035		F	29.328	5	5.4.0	N4-030825	Revised to N4-031002
N4-030965 N1-031091	4	DISC	CN5 Trace presentation on Wednesday 27th	Christian Toche; TSG-SA WG5 SWG-D Chair									Noted
N4-030966	4	Input LS	Reply to Liaison Statement on “Emergency Services Routing Based on Interim Position”	SA2	Nortel Networks	to:				R99		S2-033225	Noted
N4-030967	4	Input LS	LS Response on new interface names	SA2	Siemens	cc:				Rel-6		S2-033235	Noted
N4-030968	4	Input LS	Reply LS on possible re-organisation of 3GPP charging specification work	SA2	Nokia	cc:				Rel-6		S2-033236	Noted
N4-030969	4	Input LS	LS on P-TMSI signature validation functionality in R99	SA2	Nokia	to:				R99		S2-033237	Noted
N4-030970	4	Input LS	Reply LS on “Security issues regarding multiple PDP contexts in GPRS”	SA2	Vodafone	cc:				Rel-6		S2-033240	Noted
N4-030971	4	Input LS	LS response on “LS response CAMEL support for the Presence Service” from CN4	SA2	NTT DoCoMo	to:				Rel-6		S2-033246	Noted
N4-030972	6.11.1	DISC	Introduction of MBMS GTP messages	3	MBMS								Postponed to CN4#21
N4-030973 N4-030384	7.6	CR	Correction to InitialDP for SCUDIF	Ntt DoCoMo, NEC	SCUDIF	620			23.078	Rel-5			Noted
N4-030974	4	Output LS	LS Stage 3 level specification directions for support for subscriber certificate work item	Ericsson									Revised to N4-031061
N4-030975	6.7	DISC	TS 29.332, Mandatory IMS packages	Nokia	IMS-CCR-Mn							N4-030912	Postponed to CN4#21

N4-030976 N2-030386	7.6	CR	Correction to InitialDP for SCUDIF	Ntt DoCoMo, NEC	SCUDIF	330			29.078	Rel-5			Noted
N4-030977	6.1	TS	TS 29.234 V0.2.0	Editor	WLAN								Approved
N4-030978	7.2	CR	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	CAMEL4	025		F	23.079	5	5.2.0		Agreed
N4-030979	4	Input LS	Reply LS on alignment of maximum bit rate for HSDPA in UMTS system	CN1	NEC	to:				Rel-5		N1-031194	Revised to N4-030989
N4-030980	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	672		F	29.002	Rel-5	5.6.2		Postponed to CN4#21
N4-030981	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	673		A	29.002	Rel-6	6.2.0		Postponed to CN4#21
N4-030982	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	454		F	29.060	Rel-5	5.6.0		Postponed to CN4#21
N4-030983	4	CR	Support of the maximum bit rate for HSDPA	NEC	HSDPA	455		A	29.060	Rel-6	6.1.0		Postponed to CN4#21
N4-030984	7.7	CR	Incorrect CAMEL pre-paid charging in MNP networks	Nortel Networks, Ericsson	MNP	026	1	F	23.066	5	5.1.0	N4-030784	Agreed
N4-030985	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	2	F	29.002	5	5.6.2	N4-030895	Revised to N4-031068
N4-030986	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	2	A	29.002	6	6.2.0	N4-030896	Revised to N4-031069
N4-030987	7.7	CR	SRF-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-payed subscribers	Siemens	MNP	024	1 -	B	23.066	Rel-5	5.0.0	N4-030803	Agreed
N4-030988	6.3	Output LS	LS on Clarification for the relation between CAMEL and Presence Service	NTT DoCoMo									Revised to N4-031062
N4-030989	4	Input LS	Reply LS on alignment of maximum bit rate for HSDPA in UMTS system	CN1	NEC	to:				Rel-5		N1-031287	Postponed to CN4#21
N4-030990	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	669	1	F	29.002	5	5.6.2		Postponed to CN4#21
N4-030991	6.3	CR	Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent Technologies	PRESNC	041		B	29.228	6	5.4.0	N4-030797	Agreed
N4-030992	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092	1	F	29.010	Rel-6	5.3.1		Revised to N4-031064
N4-030993	6.4	CR	Originating S-CSCF name	Nokia	IMS2-CCR	123	1	**B**	23.008	6	5.5.0	N4-030833	Postponed to CN4#21
N4-030994	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122	1	F	23.008	5	5.5.0	N4-030787	Revised to N4-031066
N4-030995	7.1.1	CR	Mistakes in the XML schema of 29.228-540	Orange	IMS	051	1	F	29.228	5	5.4.0	N4-030789	Agreed

N4-030996	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0	N4-030869	Revised to N4-031060
N4-030997	7.1.1	CR	Error in S-CSCF Assignment Type	Siemens	IMS-CCR	042	3	F	29.228	Rel-5	5.4.0	N4-030807	Agreed
N4-030998	7.1.1	CR	The S-CSCF name needs to be checked always in MAR and SAR	Nokia	IMS-CCR	021	1	F	29.229	Rel-5	5.4.0	N4-030838	Agreed
N4-030999	7.1.1	CR	Correction on the PPR command code	Ericsson	IMS	022	2	F	29.229	R5	5.4.0	N4-030868	Agreed
N4-031000	7.1.2	CR	Incorrect message flow in 29.328	Orange	IMS	032	2	F	29.328	5	5.4.0	N4-030821	Agreed
N4-031001	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033	1	F	29.328	5	5.4.0	N4-030811	Revised to N4-031067
N4-031002	7.1.2	CR	Mistakes in the XML schema of 29.328-540	Orange	IMS	035	1	F	29.328	5	5.4.0	N4-030964	Agreed
N4-031003	7.9	CR	Change of Early UE feature to PUESBINE	Vodafone	LATE_UE	454			29.060	Rel-5	5.6.0		Agreed
N4-031004	7.9	CR	Change of Early UE feature to PUESBINE	Vodafone	LATE_UE	455			29.060	Rel-6	6.1.0		Agreed
N4-031005	7.9	CR	Corrections to "Early UE" handling	Vodafone	Late UE	013	1	F	23.012	5	5.1.0		Agreed
N4-031006	6.11	CR	Add SGSN, GGSN and GMLC to network resource parameter	NEC	TEI-6	650	1	F	29.002	R6	6.2.0	N4-030819	Agreed
N4-031007	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659	1	F	29.002	R5	5.6.2	N4-030851	Revised to N4-031056
N4-031008	7.6	CR	Repeat subscription checking regarding SCUDIF	NTT DoCOMo	SCUDIF	129	1	F	23.018	R5	5.7.0	N4-030852	Withdrawn
N4-031009	7.6	CR	Repeat subscription checking in MO SCUDIF call	NTT DoCOMo	SCUDIF			F	23.172	R5	5.1.0	N4-030933	Noted
N4-031010	7.6	CR	Supplementary service interaction with SCUDIF calls	NTT DoCoMo	SCUDIF	014		F	23.172	R5	5.1.0	N4-030950	Noted
N4-031011	6.6	CR	Removal of End User Address from Create Subsequent PDP Context Response	Nortel Networks	GTP Enhancements	436	1	F	29.060	6	6.1.0	N4-030817	Agreed
N4-031012	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453	1	A	29.060	Rel-6	6.1.0	N4-030947	Revised to N4-031054
N4-031013	8.1.	Output LS	LS reply on sending the SGSNs MNC and MCC to the GGSN and service node [S5-034449]	Nortel Networks									Approved
N4-031014	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6	448	1	F	29.060	Rel-6	6.1.0		Revised to N4-031016
N4-031015	6.6	Output LS	Reply LS on P-TMSI signature validation functionality in R99	Ericsson									Revised to N4-031063

N4-031016	8.1	CR	GTP Cause Modification	Huawei Technologies Co., Ltd.	TEI6	448	2	F	29.060	Rel-6	6.1.0	N4-031014	Agreed
N4-031017	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660	1	A	29.002	R6	6.2.0	N4-030850	Revised to N4-031056
N4-031018	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from SGSN	NTT DoCoMo	Presenc			B	23.078	R6	6.0.0	N4-030955	Noted
N4-031019	6.3	CR	Addition of a procedure that allows Presence Network Agent to obtain presence information from VLR/MSC server	NTT DoCoMo	Presenc	130	1	B	23.018	R6	5.7.0	N4-030848	Postponed to CN4#21
N4-031020	6.2	Output LS	LS to SA1 on GUP work in CN4	Nokia	GUP							N4-030910	Agreed
N4-031021	7.6	DISC	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF							N4-030900	Noted
N4-031022	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	011	1	F	23.172	5	5.1.0	N4-030901	Noted
N4-031023	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	2	F	29.002	5	5.6.2	N4-030902	Revised to N4-031058
N4-031024	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	2	A	29.002	6	6.2.0	N4-030903	Revised to N4-031059
N4-031025	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF				23.018	Rel5	5.7.0		EMAIL approval 5th September
N4-031026	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	670	1	A	29.002	6	6.2.0		Postponed to CN4#21
N4-031027	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	068	1	F	23.153	5	5.5.0	N4-030915	Postponed to CN4#21
N4-031028	7.5	CR	Correction of Inter-MSC SRSN Relocation procedure	Siemens	OoBTC	069	1	F	23.153	5	5.5.0	N4-030918	Postponed to CN4#21
N4-031029	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	667	1	F	29.002	5	5.6.2	N4-030916	Postponed to CN4#21
N4-031030	7.5	CR	Codec Modification/ Mid-Call Codec Negotiation after Inter-MSC Relocation	Siemens	OoBTC	668	1	A	29.002	6	6.2.0	N4-030917	Postponed to CN4#21
N4-031031	6.4.1	CR	Sharing public identities across multiple UEs	Nokia	IMS-CCR2	124			23.008	Rel6	5.6.0		Withdrawn
N4-031032	8.3	CR	Clarification on codec modification	Siemens	OoBTC	062		F	23.153	4	4.8.0	N4-030871	Agreed
N4-031033	8.3	CR	Clarification on codec modification	Siemens	OoBTC	063		A	23.153	5	5.5.0	N4-030872	Agreed
N4-031034	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	066	1	F	23.153	Rel-4	4.8.0	N4-030913	Agreed
N4-031035	8.3	CR	Clarification of IuUP Initialisation during codec modification	Nokia	OoBTC	067	1	F	23.153	Rel-5	5.5.0	N4-030914	Agreed

N4-031036	7.11	CR	Changes to enable the GSMA root DNS architecture	Vodafone	TEI_5	074	1	F	23.003	5	5.6.0	N4-030876	Agreed
N4-031037	7.11	Output LS	Response LS on DNS Top Level Domains used in 3GPP TS 23.003	Vodafone									Approved
N4-031038	6.10	CR	Introduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks, AWS	LCS2	645	1	B	29.002	6	6.2.0		Agreed
N4-031039	6.10	Output LS	Reply LS on ntroduction of North American Interim Location Based Routing of Emergency Call	Nortel Networks									Approved
N4-031040	6.10	CR	Positioning Data for UTRAN LCS	Nortel Networks, AWS	LCS2	655	1	F	29.002	6	6.2.0	N4-030818	Withdrawn
N4-031041	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	582	2	F	29.002	Rel-4	4.12.0	N4-030923	Agreed
N4-031042	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	583	2	A	29.002	Rel-5	5.6.2	N4-030924	Agreed
N4-031043	8.5.1	CR	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as"MAP_Protected_Payload included"	HSS	Security	584	2	A	29.002	Rel-6	6.2.0	N4-030925	Agreed
N4-031044	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, SIemens	ASCI	A059	1	F	03.03	96	5.4.1		Agreed
N4-031045	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A060	1	A	03.03	97	6.7.0		Agreed
N4-031046	9	CR	Correction to definition of Group ID, Group call area ID and Group Call Reference	Nortel Networks, Siemens	ASCI	A061	1	A	03.03	98	7.7.0		Agreed
N4-031047	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A337		F	09.02	R96	5.18.0		Agreed
N4-031048	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A338		A	09.02	R97	6.13.0		Agreed
N4-031049	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	A339		A	09.02	R98	7.13.0		Agreed
N4-031050	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	661		A	29.002	R99	3.17.0		Agreed
N4-031051	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	662		A	29.002	R4	4.12.0		Agreed
N4-031052	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	663		A	29.002	R5	5.6.2		Agreed

N4-031053	9	CR	Correction of encoding description of Group-Id	Nortel Networks, Siemens	ASCI	664		A	29.002	R6	6.2.0		Agreed
N4-031054	7.3	CR	GGSN Handling of Update PDP Context Response	Huawei Technologies Co., Ltd.	TEI6	453	1	A	29.060	Rel-6	6.1.0	N4-031012	Agrred
N4-031055	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	026	1	F	23.079	R5	5.2.0		Agreed
N4-031056	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	659	2	F	29.002	R5	5.6.2	N4-031007	Agreed
N4-031057	7.6	CR	Notification of the 2nd BSG in case of Late CF with OR	NTT DoCoMo	SCUDIF	660	2	F	29.002	R5	5.6.2	N4-031017	Agreed
N4-031058	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	613	3	F	29.002	R5	5.6.2	N4-031023	Agreed
N4-031059	7.6	CR	SCUDIF HLR Interrogation	LM Ericsson	SCUDIF	614	3	A	29.002	R6	6.2.0	N4-031024	Agreed
N4-031060	6.4	CR	PSI definition	Ericsson	IMS	073		B	23.003	R6	5.6.0	N4-030996	Agreed
N4-031061	4	Output LS	LS Stage 3 level specification directions for support for subscriber certificate work item	Ericsson									Approved
N4-031062	6.3	Output LS	LS on Clarification for the relation between CAMEL and Presence Service	NTT DoCoMo								N4-030988	Approved
N4-031063	6.6	Output LS	Reply LS on P-TMSI signature validation functionality in R99	Ericsson									Approved
N4-031064	6.11	CR	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	TEI6	092	2	F	29.010	Rel-6	5.3.1		Agreed
N4-031065	6.11	CR	Positioning Data for UTRAN LCS	Nortel	TEI6	674			29.002	Rel-6	6.2.0		Email approval
N4-031066	7.1	CR	Unauthorized P-CSCF networks	Orange	IMS	122	2	F	23.008	5	5.5.0		Agreed
N4-031067	7.1.2	CR	Correction of Sh data definition in Annex C and D.	HP	IMS-CCR	033	1	F	29.328	5	5.4.0		Agreed
N4-031068	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	615	3	F	29.002	5	5.6.2	N4-030985	Agreed
N4-031069	7.7	CR	Incorrect Charging With MNP	LM Ericsson	CAMEL4	616	3	A	29.002	6	6.2.0	N4-030986	Agreed

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History

Document History	
up to 29th August 2003	DRAFT v0.0.1, 002, 003 distributed in meeting.
4th Sept, 2003	DRAFT v1.0.0 placed to meeting server and 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: mailto:kimmo.kymalainen@ETSI.org A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report. **E-mail comments back by 15th September 2003**
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