



Third Generation Partnership Project

Draft Meeting REPORT v1.0.0 3GPP TSG_CN_WG4#19

San Diego, US
19th – 23rd May 2003



Hosts: The North American Friends of 3GPP

Chairman: Mr. Ian Park, Vodafone
Vice Chairmen: Mr. Peter Schmitt, Siemens
MCC Support: Mr. Kimmo Kymäläinen, ETSI MCC.

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1 DETAILED AGENDA & TIME PLAN FOR CN4 #19: STATUS ON EVE OF MEETING

Mr. Ian Park, CN4 chairman, opened the meeting. Additional support was provided by Mr. Kimmo Kymäläinen (CN4 Secretary, MCC). Welcome introduction was provided, Mr. Ian Park (Vodafone UK).

1.1 Make calls for IPRs

Presented CN4 chairman Mr. Ian Park.

The document is included in Annex C.

The agenda was presented and **approved** (N4-030340).

2 Document Allocation

The late arrived documents were accepted by the meeting for discussion under the appropriate agenda headings.

The document allocation (N4-030335) was **approved** with the changes shown above.

Peter Schmitt was selected as CN4 chairman. He was an only candidate. He will start his post on CN4#20.

3 Meeting Reports

3.1 Approval of the report of CN4 #18, Dublin, EIRE

The Bangkok meeting report CN4#18 (N4-030341) was **approved**. The document is raised to version 3.0.0 and will be uploaded to the server.

3.2 Report of CN #19 & SA #19

The report is unofficial made by CN4 chairman. The official report was made by CN#19 secretary.

A document N4-030337 was **Noted**

4 Liaison Statements

Document: N4-030343
Title: LS on Use of E164 numbers for emerging mobile systems
Source: SA1
Presented: CN4 chariman
Discussion:

Decision: Noted

Document: N4-030350
Title: Response to LSs on Use of E164 numbers for data only terminals
Source: SA2
Presented: CN4 chariman
Discussion:

Decision: Noted

Document: N4-030376

Title: Response to LSs on Use of E164 numbers for data only terminals
Source: SA1
Presented: Mr. Nigel Berry, Lucent
Discussion:

Decision: **Noted**

Document: **N4-030536**
Title: Proposed Response to LSs on Use of E164 numbers for data only terminals
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Revised to N4-030619**

Document: **N4-030619**
Title: Response to LSs on Use of E164 numbers for data only terminals
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Approved**

Document: **N4-030344**
Title: LS on updated WID for emergency call enhancements for IP & PS based calls
Source: CN1
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Noted**

Document: **N4-030345**
Title: LS on proposed deletion of security-related work items in TSG-CN
Source: CN Plenary
Presented: CN4 chairman
Discussion:

Decision: **Noted**

Document: **N4-030346**
Title: LS on Request for Inter-GMLC (Lr) Interface Work Item progress report
Source: OMA-LOC
Presented: CN4 chairman
Discussion:

- - Lucent: CN4 should be more active in this location work.
 - o NEC: SA2 is a right group to make these protocol decisions. CN4 only need to be informed.

Decision: **Noted**

Document: **N4-030354**
Title: Reply LS on Inter-GMLC (Lr) Interface protocol development
Source: SA2
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

Decision: **Noted**

Document: **N4-030347**
Title: LS on QoS for Signalling PDP Context
Source: RAN3
Presented: CN4 chairman
Discussion:

Decision: Noted

Document: N4-030348
Title: Response to LS on Structure of IMS Charging Identifier (ICID)
Source: SA2
Presented: CN4 chairman
Discussion:

Decision: Noted

Document: N4-030368
Title: Reply LS on Structure of IMS Charging Identifier (ICID)
Source: SA5
Presented: Mr. Nigel Berry, Lucent
Discussion:

Decision: Noted

Document: N4-030351
Title: Liaison Statement on Management of the AMR in PS conversational
Source: SA2
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: Noted

Document: N4-030353
Title: Reply LS on SS barring for SMS transfer over GPRS
Source: SA2
Presented: Chairman
Discussion:

Decision: Noted

Document: N4-030355
Title: Liaison Statement on Core Network Provision of separate flows for P2P and P2M radio Transmission
Source: SA2
Presented: Chairman
Discussion:

Decision: Noted

Document: N4-030357
Title: Reply LS on updated WID for emergency call enhancements for IP & PS based calls
Source: SA2
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: Noted

Document: N4-030362
Title: SA3 response on the "Additional Release 5 work needed for Policy Control and Subscription Control of Media"
Source: SA3
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: Noted

Document: N4-030363
Title: LS on "Support for subscriber certificates"

Source: SA3
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: **Noted**

Document: **N4-030367**
Title: Reply LS on IPv4 and IPv6 form of Charging Gateway Address
Source: SA5
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: **Noted**

Document: **N4-030374**
Title: LS on impact of 'Early UE handling' on the GERAN
Source: GERAN
Presented: CN4 chairman
Discussion:

Decision: **Noted**

Document: **N4-030375**
Title: Answer to Liaison Statement on Core Network Provision of separate flows for P2P and P2M radio Transmission
Source: GERAN
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Noted**

Document: **N4-030378**
Title: LS on overload control function in GMLC
Source: SA2
Presented: CN4 chairman
Discussion:

Decision: **Noted**

Document: **N4-030587**
Title: LS on Signalling Requirements for IP-QOS
Source: ITU-T SG11
Presented: Mr. Nigel Berry, Lucent
Discussion:

Decision: **Noted**

Document: **N4-030588**
Title: Reply LS on proposed deletion of security-related work items in TSG-CN
Source: SA3
Presented: CN4 chairman
Discussion:

Decision: **Noted**

Document: **N4-030594**
Title: Reply LS on the work on L_{id} interface in OMA Location WG
Source: SA2
Presented: Mr. Phli Hodges, Ericsson
Discussion:

Decision: **Noted**

Document: N4-030595
Title: LS on missing SMS transmission via MSC
Source: T2
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Nokia: Further time is needed to make conclusions about the LS. This is a late input.
 - o CN4 chairman: We should send LS to T2 to say that we need more time to analyse.
 - o 3: The cover page of CR 23.040 says this is an critical correction.
 - o Lucent ask for the possibility of an early view of draft CRs.
 - Siemens will draft the CRs. 29.002-(630-633).

Decision: Noted

Document: N4-030596
Title: LS on terminal MMS capability discovery prior MM notification
Source: T2
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- Draft LS need to be drafted to T2.
 - o Will be drafted by Nokia (N4-030602)

Decision: Noted

Document: N4-030602
Title: Proposed LS on terminal MMS capability discovery prior MM notification
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Siemens: The MM-SC could interwork with the HLR using Camel phase 4 functionality to retrieve the IMEISV using ATI.

Decision: Revised to N4-030717

Document: N4-030717
Title: Proposed LS on terminal MMS capability discovery prior MM notification
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

Decision: Approved

Document: N4-030714
Title: LS on lu UP Initialisation during RAB modification
Source: RAN3
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: Noted

5 Work Item Management

Document: N4-030441
Title: WID: Enhancements to the CX and Sh interfaces
Source: Lucent, Ericsson, Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- The unique id will be 14014.
- Lucent is included to the supporting companies.

Decision: Revised to N4-030603

Document: N4-030603
Title: WID: Enhancements to the CX and Sh interfaces
Source: Lucent, Ericsson, Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: Approved

Document: N4-030590
Title: Adopting Cx-based protocols for several interfaces: NAF-BSF (D interface) and BSF-HSS (C interface), the interface between Authentication Proxy and HSS, and the interface between HSS and BM-SC for MBMS
Source: SA3
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- 3: Requirements are not clear enough at the moments.
 - o Agreed by Lucent
 - o Timescale is not clear before CN4 has got stable requirements
- Ericsson: The HSS would need to be enhanced to allow it to distinguish between the different entities on the other side of the "enhanced Cx" interface. also,
- Ericsson: The sequencing of authentication vectors is a lot more complex if vectors are shared between many entities.
- Lucent: would prefer to keep SA3 under separate WI than grouping it in the WI;N4-030603. This was agreed by Nortel Networks.
- Nortel Networks: The proposals for the C & D interface differ in substance:
 - o C looks as though it would simply re-use the Cx protocol, but the D interface would require enhancements. On this basis the D interface might even need to be defined separately.
 - o Nokia: CN4 could re-use existing Cx interface commands for the D interface.
- Nokia: It's a good idea to limit the number of interfaces to the HSS.
- CN4 decided that a new WI is needed.
 - o N4-030606

Decision: Noted

Document: N4-030606
Title: LS on adapting Cx interface protocols for security purposes
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

-

Decision: Revised to N4-030709

Document: N4-030709
Title: LS on adapting Cx interface protocols for security purposes
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

-

Decision: Revised to N4-030722

Document: N4-030722
Title: LS on adapting Cx interface protocols for security purposes
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- A LS will be distributed to the CN4 email list by 09:00 UTC on Monday 2 June.
- If no objections are received by 09:00 UTC on Monday 9 June, it will be taken as approved.

Decision: Email approval

Document: N4-030528
Title: EM-WID – approved output from CN #19
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- CN4 agreed that some changes are needed in 29.060 but further investigation is needed. CN1 will be informed off-line.

Decision: Noted

Document: N4-030568
Title: MBMS WI
Source: 3
Presented: Mr. Hatef Yamini, 3
Discussion:

- CN4 endorsed the assessment of impact on CN4 specifications

Decision: Noted

6 Release 6

6.1 GPRS

Document: N4-030418
CR: CR 29.060-392r1 (Rel-6)
Title: Diagnostic Information in GTP
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

- Nokia, Ericsson, Lucent and Siemens don't see this as an useful correction. The implementation effort is too high for the small benefits.

Decision: Withdrawn

6.2 Location services

Document: N4-030371
Title: LS on the Introduction of Anonymous Subscribers and the Lid interface
Source: SA2
Presented: CN4 chairman
Discussion:

- Draft LS need to be drafted to SA.
 - o Will be drafted by Nokia (N4-030607)

Decision: Noted

Document: N4-030607
Title: Proposed LS on the Introduction of Anonymous Subscribers and the Lid interface
Source: Vodafone
Presented: CN4 chairman
Discussion:

Decision: Approved

Document: N4-030372
Title: Reply LS on Inter-GMLC (Lr) Interface protocol development
Source: SA2
Presented: Mr. Toshiyuki Tamura, NEC
Discussion:

- CN4 chairman: If companies have specific comments about draft specification (attached in N4-030346), the comments should send to CN4 mailing list.

Decision: Noted

Document: N4-030586

Title: LS on Emergency Services Routing Based on Interim Position

Source: T1P1

Presented: Dr. Dan Warren, Nortel Networks

Discussion:

- CN4 chairman: CN4 needs to see Liaison statement from SA2 before CN4 will discuss further. After SA2 has approved the LS active discussion is needed in CN4 mailing list.



Action point to MCC Secretary: When SA2 LS is available it have publish in CN4 mailing list

Decision: Noted

Document: N4-030495

CR: CR 29.002-608 (Rel-6)

Title: Addition of LCS capability sets to MAP_SRI_for_LCS response

Source: NEC

Presented: Mr. Toshiyuki Tamura, NEC

Discussion:

- Small editorial corrections were made.

Decision: Revised to N4-030608

Document: N4-030608

CR: CR 29.002-608r1 (Rel-6)

Title: Addition of LCS capability sets to MAP_SRI_for_LCS response

Source: NEC

Presented:

Discussion:

Decision: Agreed without presentation

Document: N4-030524

CR: CR 29.002-624 (Rel-6)

Title: Addition of Privacy Check Related Action to Provide Subscriber Location request

Source: Nokia

Presented: Mr. Jari Jansson, Nokia

Discussion:

Decision: Revised to N4-030609

Document: N4-030609

CR: CR 29.002-624r1 (Rel-6)

Title: Addition of Privacy Check Related Action to Provide Subscriber Location request

Source: Nokia

Presented: Mr. Jari Jansson, Nokia

Discussion:

Decision: Agreed

6.3 TrFO/codec control

6.4 Mn interface protocol

Document: N4-030419

CR:

Title: Termination names in Mn-interface spec (29.332)
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: **Approved as an update to the draft 29.332**

Document: **N4-030610**
Title: Updated Mn interface protocol specification (29.332)
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:

Decision: **Approved**

6.5 Camel phase 4+

Document: **N4-030360**
Title: LS on CAMEL support for the Presence Service
Source: SA2
Presented: Mr. Kazuyuki Kozu, NTT DoCoMo
Discussion:

- It seems that the requirement is to report successful call establishment, and to include in the report the bearer being used. This is not a mobility management event.
- Do we need to report call release as well as call establishment?
 - o Siemens: Call establishment and call release are covered by the CAP EventReportBCSM, but arming these as detection points would imply multiple points of control.
- Is the reporting based on subscription or can the detection points be dynamically armed by the presence server?
 - o NTT DoCoMo: There is a requirement to report call release as well as call establishment. They would prefer to enhance MAP to do the reporting.
 - o Alcatel: CAMEL is fully capable of doing the reporting, and there is no need to repeat this functionality using MAP. Multiple point of control could be avoided by using TDP(N).
 - o CN2 chairman: We can make the reporting CAMEL functionality and use CAP signalling, or make the reporting CAMEL functionality and use MAP signalling, or make the reporting independent of CAMEL and use MAP signalling.
- Siemens would like to know if the address of the presence server can be different for different subscribers;
 - o We have to ask from SA2.
- Ericsson: We need to know as well whether the Presence service is required to work across network boundaries. If yes, this points towards a CAMEL solution.

Decision: **Noted**

Document: **N4-030676**
Title: Proposed LS to SA2 on CAMEL support for the Presence Service
Source: SA2
Presented: Mr. Kazuyuki Kozu, NTT DoCoMo
Discussion:

Decision: **Approved**

6.6 Generic User Profile

Document: **N4-030486**
Title: TS 29.240, TS Skeleton with Table of Contents and Introduction
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

- SA2 has agreed changes to stage 2, but a new version is not updated yet.
- Approved as the basis for further development

Decision: **Approved**

Document: **N4-030591**

Title: GUP protocol selection

Source: Nokia

Presented: Mr. Seppo Kauntola, Nokia

Discussion:

- Lucent: We are happy to see SOAP specified for the Rg interface, but he wants to keep options open to use SOAP and CORBA for the Rp interface.
 - o Nokia explained why the existing database design could work with SOAP alone.
- Siemens would like to delay the protocol choice for a while (though he wants not to use CORBA), but when the choice is made, he wants to see the same protocol for both Rg and Rp.
 - o Nokia: CORBA is not practical for the Rg interface.
 - Siemens accepted a working assumption at this meeting, with the possibility to overturn it.
- Ericsson: We don't have any formal input from SA2 to ask us to get on with the protocol work.
 - o Lucent: The stage 2 is mature enough for us to start taking working assumptions;
 - o Lucent expect the stage 2 to go to SA #20 for approval.

Decision: **Noted**

Document: **N4-030488**

Title: Liberty Alliance Project specifications relationship to GUP

Source: Nokia

Presented: Mr. Seppo Kauntola, Nokia

Discussion:

- Lucent: To use Liberty Alliance Project specification, as a reference is not acceptable by legally!?
- o CN4 chairman: This will need to be checked with the MCC.

Decision: Noted

6.7 Wireless LAN interworking

Document: **N4-030356**

Title: LS on Clarification of Scenario 2 and Scenario 3 architectural characteristics and stable and non-stable parts of TS 23.234

Source: SA2

Presented: Ms. Raquel Rodriguez, Nokia

Discussion:

- Nokia: Stage 2 specification will be sent for information to SA plenary. Scenario 2 is more stable, but scenario 3 still needs a lot more work.

Decision: Noted

Document: **N4-030489**

Title: TS 29.234, TS Skeleton with Table of Contents and Introduction

Source: Nokia

Presented: Ms. Raquel Rodriguez, Nokia

Discussion:

- Interworking with the HLR (as distinct from the HSS) will not impact the MAP specification.
- NEC: Which is a duplicate of material in the stage 2 to be replaced by a reference to the stage 2?
 - o After discussion, it seems that the material in section 5.1 is not an exact copy of the stage 2.

- NEC: Figure 1 is a copy of the stage 2, so it should be replaced by a reference to the stage 2.
- NEC: We should not use one specification to define a heterogeneous set of protocols.
 - o Nortel support NEC's opinion
 - o Nokia: The current WID shows all the protocols as being defined in one spec, but we can change that if we decide that separate specs are needed.
- The network entities for the Wn interface are wrong; the BGW should be the WAG, and the PDGW should be PDG.
- Approved with these updates as the basis for further work

Decision: Revised to N4-030618

Document: N4-030490
Title: TS 29.234, Wr Reference Point Definition
Source: Nokia
Presented: Ms. Raquel Rodriguez, Nokia
Discussion:

- Vodafone: We should make support for Diameter mandatory, and support for Radius optional.
- Lucent: We should support both Radius and Diameter as mandatory.
 - o Nortel agree with Lucent.
 - o Nokia can accept that Diameter support should be mandatory, but we also need to support Radius in order to interwork with existing WLAN infrastructure. However if we consider the requirements on entities, we mandate support for both D & R in the AAA proxy, but support for D & R is "at least one" in the WLAN access network.
- Document will be incorporated with 29.234.

Decision: Approved

Document: N4-030491
Title: TS 29.234, Ws Reference Point Definition
Source: Nokia
Presented: Ms. Raquel Rodriguez, Nokia
Discussion:

- Supported by CN4
- Document will be incorporated with 29.234.

Decision: Approved

Document: N4-030492
Title: TS 29.234, Wx Reference Point Definition
Source: Nokia
Presented: Ms. Raquel Rodriguez, Nokia
Discussion:

- Document will be incorporated with 29.234.
- Nokia: More study is needed. We think we should take only one application and extend it if/when needed.
- Nokia: Because of interworking with earlier release we should use MAP based protocol and from Rel-6 onwards protocol should be diameter based.
- Siemens: Why do we need to use two different protocol, diameter and MAP based? Only MAP based is needed.
 - o Lucent and Nortel: Because of Interworking with 3GPP2. It's more diameter based.
 - o Nokia: 3GPP2 don't use MAP interface.
- Siemens can also accept to use this discussion paper as incorporated with 29.234.

Decision: Approved

Document: N4-030493
Title: TS 29.234, Ws&Wr Procedures Signalling flows
Source: Nokia
Presented: Ms. Raquel Rodriguez, Nokia

Discussion:
- Document will be incorporated with 29.234.

Decision: **Approved**

Document: **N4-030618**
Title: 3GPP TS 29.234 v.0.1.0
Source: Nokia
Presented: Ms. Raquel Rodriguez, Nokia
Discussion:
- Lucent: The 3GPP drafting guidelines should be applied for the next revision!

Decision: **Approved as based for further development work**

6.8 MAP specification clean-up

Document: **N4-030339**
CR: CR 29.002-595 (Rel-6)
Title: Removal of redundant text from 29.002 Chapter 23
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:
- Category should be F

Decision: **Revised to N 4-030637**

Document: **N4-030637**
CR: CR 29.002-595r1 (Rel-6)
Title: Removal of redundant text from 29.002 Chapter 23
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:
- CN4 agreed to roll this CR back to Rel-5, so this now becomes category A.
- Several editorials were made.

Decision: **Revised to N 4-030713**

Document: **N4-030713**
CR: CR 29.002-595r2 (Rel-6)
Title: Removal of redundant text from 29.002 Chapter 23
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-030684**
CR: CR 29.002-635 (Rel-5)
Title: Removal of redundant text from 29.002 Chapter 23
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:
- Rel-5 reverse mirror of N4-030713

Decision: **Agreed**

Document: **N4-030381**
CR: CR 29.002-574 (Rel-6)
Title: Provision of SDL diagrams and removal of redundant text in chapter 25
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

- Changes are added to the service descriptions for MAP_PAGE & MAP_PROCESS_ACCESS_REQUEST.
- Reasons for change need improvement.

Decision: Revised to N4-030638

Document: N4-030638

CR: CR 29.002-574r1 (Rel-6)

Title: Provision of SDL diagrams and removal of redundant text in chapter 25

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- CN4 agreed to roll this CR back to Rel-5, so this now becomes category A

Decision: Agreed

Document: N4-030638

CR: CR 29.002-574r1 (Rel-6)

Title: Provision of SDL diagrams and removal of redundant text in chapter 25

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- CN4 agreed to roll this CR back to Rel-5, so this now becomes category A

Decision: Agreed

Document: N4-030683

CR: CR 29.002-634 (Rel-5)

Title: Provision of SDL diagrams and removal of redundant text in chapter 25

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- This is Rel-5 reverse mirror of N4-030638.

Decision: Agreed

Document: N4-030391

CR: CR 29.002-580 (Rel-5)

Title: Provision of SDL diagrams in chapter 24B

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

Decision: Agreed

Document: N4-030391

CR: CR 29.002-581 (Rel-6)

Title: Provision of SDL diagrams in chapter 24B

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- This is Rel-6 reverse mirror of N4-030391.

Decision: Agreed

6.9 Any other business for Release 6

6.9.1 Presence

Document: N4-030444

CR: CR 29.228-041 (Rel-6)

Title: Introduction of Presence Stage 3 (Px) to the Cx interface

Source: Lucent

Presented: Mr. Nigel Berry, Lucent

Discussion:

- This CR would lead to the creation of 29.228 v6.0.0
- Ericsson and Nortel: We would like to have confirmation that the details of the Cx interface protocol won't change.
- Ericsson and NEC: The title of 29.228 needs to be changed to reflect the coverage of the Px interface.
 - o Nortel: This concern can be covered by waiting for the changes in 23.218, 24.228 & 24.229 to be approved before we make the changes to 29.228.
- Nortel: Does the Px really needs to exist;
 - o Lucent: The stage 2 already defines it.

Decision: **Postponed**

Document: **N4-030445**

CR: CR 29.328-026 (Rel-6)

Title: Introduction of Presence Stage 3 (Ph) to the Sh interface

Source: Lucent

Presented: Mr. Nigel Berry, Lucent

Discussion:

- This CR would lead to the creation of 29.228 v6.0.0
- Ericsson: The mapping of Ph to Sh isn't as straightforward as the mapping of Px to Cx. There is also a MAP interface involved.

Decision: **Postponed**

6.9.2 MBMS

Document: **N4-030592**

Title: LS on MBMS

Source: SA2

Presented: Mr. Hatef Yamini, 3

Discussion:

-

Decision: **Noted**

Document: **N4-030569**

Title: MBMS TR Discussion proposal

Source: 3

Presented: Mr. Hatef Yamini, 3

Discussion:

- CN4 decided not to prepare a TR.

Decision: **Noted**

Document: **N4-030570**

Title: Proposed MBMS Technical Report

Source: 3

Presented: Mr. Hatef Yamini, 3

Discussion:

Decision: **Rejected**

7 Release 5

7.1 Subscriber data handling for the IMS

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

Document: N4-030352
Title: Response to LS on clarification on the requirement for UE re-authentication initiated by HSS.
Source: SA2
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: Noted

Document: N4-030364
Title: Reply LS on clarification on the requirement for UE re-authentication initiated by HSS
Source: SA3
Presented: Mr. Lionel Morand, France Telecom
Discussion:

- France Telecom: CN1 have changed their specs to remove the mention of the possibility for the HSS to initiate re-authentication.

Decision: Noted

Document: N4-030361
Title: LS on Requirement to allow access to IMS by means of SIM
Source: SA3
Presented: CN4 chairman
Discussion:

Decision: Noted

Document: N4-030365
Title: LS on: "Requirement to allow IMS access by means of SIM"
Source: SA3
Presented: Mr. Lionel Morand, France Telecom
Discussion:

Decision: Noted

Document: N4-030454
CR: CR 29.228-042 (Rel-5)
Title: Error in S-CSCF Assignment Type
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- HP: References to section 8.1.2 from elsewhere in 29.228 need to be revised to align with the introduction of the new section. The result code should be marked as experimental.

Decision: Revised to N4-030623

Document: N4-030623
CR: CR 29.228-042r1 (Rel-5)
Title: Error in S-CSCF Assignment Type
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

- The first bullet of 8.1.2 describes normal behaviour, which is also defined in 6.3.1.
 - o Nokia The S-CSCF name is mandatory in the MAR

- This would lead to the complete deletion of the updated 8.1.2.

Decision: Revised to N4-030718

Document: N4-030718
CR: CR 29.228-042r2 (Rel-5)
Title: Error in S-CSCF Assignment Type
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: Postponed

Document: N4-030455
CR: CR 29.228-043 (Rel-5)
Title: Correct use of the Result-Code AVP
Source: Ericsson
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: Agreed

Document: N4-030469
CR: CR 29.228-044 (Rel-5)
Title: Conditionality of User-Name AVP in Server-Assignment-Answer
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- Ericsson: We should state that it's an error case when the Server-Assignment-Type of the request is UNREGISTERED_USER and the received public user identity is not known by the HSS.

Decision: Revised to N4-030624

Document: N4-030624
CR: CR 29.228-044r1 (Rel-5)
Title: Conditionality of User-Name AVP in Server-Assignment-Answer
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Agreed

Document: N4-030470
CR: CR 29.229-019 (Rel-5)
Title: Conditionality of User-Name AVP in Server-Assignment-Answer
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Agreed

Document: N4-030471
CR: CR 29.228-045 (Rel-5)
Title: Corrections to the base 64 encoding examples
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- Ericsson: TS 24.229 states that the encoding is hexadecimal, not Base64.
 - o Nokia: CK and IK are hexadecimal; the rest are Base64.

Decision: Revised to N4-030625

Document: N4-030625
CR: CR 29.228-045r1 (Rel-5)
Title: Corrections to the base 64 encoding examples
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Revised to N4-030711

Document: N4-030711
CR: CR 29.228-045r2 (Rel-5)
Title: Corrections to the base 64 encoding examples
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Agreed

Document: N4-030472
CR: CR 29.228-046 (Rel-5)
Title: Deregistration of implicitly registered public user identities
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- Ericsson: Why don't we apply the same principle for deregistration by the HSS.
 - o Nokia: We can use, but
 - o Nortel disagree. The HSS has to send a list of public user identities.
 - o France Telecom: The HSS can choose to deregister some, but not all, of the registered identities.
- France Telecom: We could also use a private user ID as the key to trigger deregistration of all public user identities.

Decision: Revised to N4-030626

Document: N4-030626
CR: CR 29.228-046r1 (Rel-5)
Title: Deregistration of implicitly registered public user identities
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Agreed

Document: N4-030473
CR: CR 29.228-047 (Rel-5)
Title: Clarification on the Server-Assignment-Type NO_ASSIGNMENT
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: Agreed

Document: N4-030583
CR: CR 29.228-048 (Rel-5)
Title: Incorrect use of result-code
Source: HP
Presented: Ms. Sharon Lim, HP
Discussion:

- The change in 8.1.2 overlaps with the changes in N4-030623

Decision: Revised to N4-030635

Document: N4-030635

CR: CR 29.228-048r1 (Rel-5)
Title: Incorrect use of result-code
Source: HP
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030604**
CR: CR 29.228-049 (Rel-5)
Title: Misalignment Public-User-Identity IE
Source: Ericsson
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: **Agreed**

Document: **N4-030605**
CR: CR 29.228-050 (Rel-5)
Title: Duplicated Destination-Host AVP within MAR command mode
Source: Ericsson
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: **Agreed**

7.1.2 HSS – SIP AS (Sh) interface

Document: **N4-030349**
Title: LS Response on Inclusion of CCF/ECF addresses on Sh interface
Source: SA2
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: **Noted**

Document: **N4-030369**
Title: LS Response on Inclusion of CCF/ECF addresses on Sh interface
Source: SA2
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- Lucent: N4-030267, approved at the last meeting, should do what SA5 are asking for.
- France Telecom: We have another CR (N4-030494) on the same topic.

Decision: **Noted**

Document: **N4-030494**
CR: CR 29.328-030 (Rel-5)
Title: Clarification on the handling of the "Charging Information" via the Sh Interface
Source: France Telecom
Presented: Mr. Lionel Morand, France Telecom
Discussion:

Decision: **Agreed**

Document: **N4-030412**
CR: CR 29.328-022 (Rel-5)
Title: Co-ordination of Update of Repository Data
Source: Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

- HP: why don't we have the sequence number visible at the Diameter AVP level.

- o Siemens: We want to keep the sequence number tightly bound to the data
- o Nokia: The sequence number is significant only when considered in conjunction with the data.
- HP: A NOTE should be added that if an update is not allowed because of mismatching sequence numbers, the AS should do an Sh-PULL to retrieve the up-to-date data.
 - o Ericsson: We should not specify the exact method by which the AS gets its data synchronised with the HSS.
- Meeting agreed to insert a more general NOTE to advice the AS to synchronise its data, without saying how.
- Nokia would like to make a change to Annex B: since we can no longer update initial filter criteria, arrow 16 of B.1.1 should be removed.
- There are also other errors which should be corrected.
 - o Nortel: It would be more appropriate to cover these changes in an update of N4-030416

Decision: Revised to N4-030627

Document: N4-030627
CR: CR 29.328-022r1 (Rel-5)
Title: Co-ordination of Update of Repository Data
Source: Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: Agreed

Document: N4-030413
CR: CR 29.329-014 (Rel-5)
Title: Co-ordination of Update of Repository Data
Source: Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: Revised to N4-030628

Document: N4-030628
CR: CR 29.329-014r1 (Rel-5)
Title: Co-ordination of Update of Repository Data
Source: Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: Agreed

Document: N4-030414
CR: CR 29.328-023 (Rel-5)
Title: Enhanced description of Sh-Pull Request and Response
Source: Nortel, Ericsson, Nokia, Vodafone
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: Revised to N4-030629

Document: N4-030629
CR: CR 29.328-023r1 (Rel-5)
Title: Enhanced description of Sh-Pull Request and Response
Source: Nortel, Ericsson, Nokia, Vodafone
Presented:
Discussion:

Decision: Agreed

Document: N4-030478

CR: CR 29.329-019 (Rel-5)
Title: Correction to the use of Data-Reference
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- Ericsson: The failure of the SNR will be difficult to handle, so we should limit the number of data references for SNR to one. Alternatively we could define a new "partial success" response which lists the data references for which subscription notification is successful.
- France Telecom propose the use of negative logic, and listing the data references for which subscription to notification failed.
- Nokia would prefer a simple binary result: total success or not(total success).
- Meeting agreed that there should be a binary result; if the request isn't totally successful then the HSS doesn't add any subscription, and returns a failure result.
- Nortel: In 29.328 has a section 6.1.3.1 which allows the HSS to report partial success (!)
- Ericsson: We should limit the number of data references in the SNR to 1.
 - o Meeting accept this principle.

Decision: **Revised to N4-030632**

Document: **N4-030632**
CR: CR 29.329-019r1 (Rel-5)
Title: Correction to the use of Data-Reference
Source: Nokia
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030415**
CR: CR 29.328-024 (Rel-5)
Title: Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel
Discussion:

Decision: **Revised to N4-030622**

Document: **N4-030622**
CR: CR 29.328-024r1 (Rel-5)
Title: Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response
Source: Nortel Networks
Presented: Mr. Dan Warren, Nortel
Discussion:

Decision: **Revised to N4-030633**

Document: **N4-030633**
CR: CR 29.328-024r2 (Rel-5)
Title: Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response
Source: Nortel Networks
Presented: Mr. Dan Warren, Nortel
Discussion:

Decision: **Agreed**

Document: **N4-030416**
CR: CR 29.328-025 (Rel-5)
Title: A range of editorial changes and corrections and additions of references
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel
Discussion:

Decision: **Revised to N4-030631**

Document: N4-030631
CR: CR 29.328-025r1 (Rel-5)
Title: A range of editorial changes and corrections and additions of references
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel
Discussion:

Decision: Revised to N4-030636

Document: N4-030636
CR: CR 29.328-025r2 (Rel-5)
Title: A range of editorial changes and corrections and additions of references
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel
Discussion:

Decision: Agreed

Document: N4-030417
CR: CR 29.329-015 (Rel-5)
Title: Command code correction for UDA plus editorial corrections
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel
Discussion:

Decision: Revised to N4-030634

Document: N4-030634
CR: CR 29.329-015r1 (Rel-5)
Title: Command code correction for UDA plus editorial corrections
Source: Nortel Networks
Presented:
Discussion:

Decision: Agreed

Document: N4-030456
CR: CR 29.328-027 (Rel-5)
Title: Discrepancy between XML schema of Cx and Sh interface
Source: Ericsson
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: Agreed

Document: N4-030457
CR: CR 29.329-016 (Rel-5)
Title: Correction on Current-Location AVP values
Source: Ericsson
Presented: Mrs. Maria-Carmen Belinchon, Ericsson
Discussion:

Decision: Agreed

Document: N4-030476
CR: CR 29.328-029 (Rel-5)
Title: Correction to the use of User-Identity
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

- CN4 chairman: What is the misalignment between 29.328 & 29.329 which would be the declared consequence if not approved.

- o Nokia: It's actually internal misalignment in 29.328.

Decision: **Agreed**

Document: **N4-030477**
CR: CR 29.329-018 (Rel-5)
Title: Correction to the use of User-Identity
Source: Nokia
Presented: Ms. Minna Myllymäki, Nokia
Discussion:

Decision: **Agreed**

7.2 CAMEL phase 4

Document: **N4-030440**
CR: CR 23.018-122 (Rel-5)
Title: Release Result from CAMEL_MT_GMSC_Notify_CF
Source: Vodafone
Presented: Mr. Nick Russell, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-030514**
CR: CR 23.079-025 (Rel-5)
Title: Correction to interaction between ORLCF and forwarding notification
Source: Ericsson
Presented: Mr. Rogier Noldus, Ericsson
Discussion:

- This has already been discussed in CN2, but without a clear conclusion. The problem case is where the gsmSCF modifies the forwarded-to address, and the result would violate the ORLCF validity check in the GMSC.
- Ericsson propose that in this case the call should be released. This could lead to systematic failure of the call.
- There is a formal error in the SDL which will need fixing.

Decision: **Revised to N4-030675**

Document: **N4-030675**
CR: CR 23.079-025r1 (Rel-5)
Title: Correction to interaction between ORLCF and forwarding notification
Source: Ericsson
Presented: Mr. Rogier Noldus, Ericsson
Discussion:

- Ericsson might like to bring these as company contributions to CN #20.

Decision: **Postponed**

Document: **N4-030675**
CR: CR 29.002-618 (Rel-5)
Title: Correction to naming of PRN parameter
Source: Ericsson
Presented: Mr. Rogier Noldus, Ericsson
Discussion:

Decision: **Revised to N4-030613**

Document: **N4-030613**
CR: CR 29.002-618r1 (Rel-5)
Title: Correction to naming of PRN parameter
Source: Ericsson

Presented: Mr. Rogier Noldus, Ericsson
Discussion:

Decision: **Revised to N4-030677**

Document: **N4-030677**
CR: CR 29.002-618r2 (Rel-5)
Title: Correction to naming of PRN parameter
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030678**
CR: CR 29.002-619r1 (Rel-6)
Title: Correction to naming of PRN parameter
Source: Ericsson
Presented:
Discussion:

- This is a Rel-6 mirror of N4-030677.

Decision: **Agreed**

Document: **N4-030611**
CR: CR 23.018r1-115r3
Title: Stopping No_Answer timer in the case of forwarding notification
Source: Ericsson
Presented: Mr. Rogier Noldus, Ericsson
Discussion:

- The CAMEL_Start_TNRy procedure call on sheet 5 should be CAMEL_Stop_TNRy. We also need to show the handling for TNRy expiry in the state Wait_For_Forward_Answer.
- Alcatel: How do we deal with the case of TNRy expiry when there are control relationships for both MT handling and MO handling of the forwarding leg.
 - o CN2 chairman: The ACM timer for the originating call half for the forwarding leg.

Decision: **Revised to N4-030679**

Document: **N4-030679**
CR: CR 23.018r2-115r3
Title: Stopping No_Answer timer in the case of forwarding notification
Source: Ericsson
Presented: Mr. Rogier Noldus, Ericsson
Discussion:

- CN2 chairman: CN2 need to discuss this further

Decision: **Agreed**

7.3 GPRS

Document: **N4-030366**
Title: LS on security issues regarding multiple PDP contexts in GPRS
Source: SA3
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

Decision: Noted

Document: **N4-030373**
Title: Response to LS on security issues regarding multiple PDP contexts in GPRS
Source: SA3
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- SA3 has given an answer in N4-030589.

Decision: Noted

Document: **N4-030589**

Title: Security issues regarding multiple PDP contexts in GPRS

Source: SA3

Presented: Mr. Peter Wild, Vodafone D2

Discussion:

- Nortel don't believe there are real time attack requirements for this. Nortel would like to see more examples about real time attack.
- 3: We can't do any solution before we have feedback from SA2. We need information about architectural issues.
- Nortel and Nokia: User equipment is the only place to block simultaneous connections
- LS to SA2 N4-030663.

Decision: **Noted**

Document: **N4-030663**

Title: LS on Security issues regarding multiple PDP contexts in GPRS

Source: Nortel Networks

Presented: Dr. Daniel Warren, Nortel

Discussion:

Decision: **Approved**

Document: **N4-030420**

CR: CR 29.060-398r1 (Rel-5)

Title: Controlling compression performed on the SGSN

Source: Vodafone

Presented: Mr. Peter Wild, Vodafone D2

Discussion:

- Nokia: Is there a way to inform MS that compression is done?
 - o Vodafone D2: No we believe there are no
- Lucent: Does the MS get information that SGSN has rejected the compression?
- 3: Checking is needed if this compression works between 2G and 3G.
- Nokia & Lucent: The only place to clarify this is to do it in MS. If terminal has decided to compress data to the access point then the terminal should inform SGSN that no compression in SGSN is needed. Then there are no changes in GTP and in SGSN.
- Nokia: We should ask from CN1 is this possible in the signal level?
 - o NEC: If the answer from CN1 is "no", we have to compare the two different solutions.
- Nokia: We would see this is useful if the signalling is coming from the UE side.
- Nokia can support the CR after discussion with CN1 colleagues. They want to record in notes that this is not a complete solution.
- CRs are conditionally approved. Dependence with SA2 CRs (S2-032089 and S2-032090).
- After SA2 email approval S2-032089 was rejected.

Decision: **Rejected**

Document: **N4-030421**

CR: CR 29.060-399r1 (Rel-6)

Title: Controlling compression performed on the SGSN

Source: Vodafone

Presented:

Discussion:

- Category will be F.

Decision: **Agreed**

Document: **N4-030667**

Title: Discussion paper on the use of cause codes for a failure of Create PDP Context request

Source: Vodafone
Presented: Mr. Nick Russell
Discussion:
- Nokia and Ericsson can accept the proposed changes.

Decision: **Noted**

Document: **N4-030422**
CR: CR 29.060-411 (Rel-5)
Title: Enhancement of description for error codes for Create PDP Context response message
Source: Vodafone, Nortel, Ericsson
Presented: Mr. Peter Wild, Vodafone D2
Discussion:
- Lucent: The new error code should be introduced.
- Vodafone: The new cause code is needed because of better debugging in case of error.
- NEC: Chapter 7.7.1 cause code table needs to be updated.

- o The new cause code have to be between range 222-240.

Decision: **Revised to N4-030664**

Document: **N4-030664**
CR: CR 29.060-411r1 (Rel-5)
Title: Enhancement of description for error codes for Create PDP Context response message
Source: Vodafone, Nortel, Ericsson
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

Decision: **Agreed**

Document: **N4-030665**
CR: CR 29.060-412r1 (Rel-6)
Title: Enhancement of description for error codes for Create PDP Context response message
Source: Vodafone, Nortel, Ericsson
Presented:
Discussion:
- Rel-6 mirror of N4-030422

Decision: **Agreed**

Document: **N4-030483**
CR: CR 29.060-419 (Rel-5)
Title: Definition of reserved TEID value
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:
- Lucent: Do we need this for earlier releases.

- o Nokia: We don't believe this is so serious problem that we need to correct earlier releases.

- Nokia wants have stated that value 0 is used only in special cases.
- Nortel and Ericsson: Clarification in text is needed.
- CN4 agreed that the text should be: "The value 0 is reserved for special cases defined in section "Usage of the GTP-C Header""

Decision: **Revised to N4-030668**

Document: **N4-030668**
CR: CR 29.060-419r1 (Rel-5)
Title: Definition of reserved TEID value
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:
-

Decision: Revised to N4-030704

Document: N4-030704
CR: CR 29.060-419r2 (Rel-5)
Title: Definition of reserved TEID value
Source: Nokia
Presented: Mr. Seppo Kauntola, Nokia
Discussion:

Decision: Agreed

Document: N4-030705
CR: CR 29.060-420r2 (Rel-6)
Title: Definition of reserved TEID value
Source: Nokia
Presented:
Discussion:

- Rel-6 mirror of N4-030704

Decision: Agreed

Document: N4-030496
CR: CR 29.060-421 (Rel-5)
Title: QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet
Source: Ericsson, Nokia
Presented: Ms. Anna Jernryd, Ericsson
Discussion:

Decision: Agreed

Document: N4-030497
CR: CR 29.060-421 (Rel-6)
Title: QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet
Source: Ericsson, Nokia
Presented:
Discussion:

- Rel-6 mirror of N4-030496

Decision: Agreed

Document: N4-030571
CR: CR 29.060-429 (Rel-5)
Title: Enhanced Error Handling
Source: 3
Presented: Mr. Hatef Yamini, 3
Discussion:

- Lucent: "Higher level information" should be described in specification.
 - o Agreed by other companies.
- Nokia, Lucent and Siemens believe CR is not needed.
- The meeting decided the CR is not necessary.

Decision: Withdrawn

7.4 LCS in the PS domain

Document: N4-030359
Title: Reply LS on "LS on additional parameters in MAP for LCS with GERAN Access"
Source: SA2
Presented: Mr. Peter Schmitt, CN4 vice chairman

Discussion:
- The attached CRs are approved in SA2.

Decision: **Noted**

Document: **N4-030410**
CR: CR 29.002-500r4 (Rel-5)
Title: Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: **Revised to N4-030657**

Document: **N4-030657**
CR: CR 29.002-500r5 (Rel-5)
Title: Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report
Source: Nortel Networks
Presented: Dr. Dan Warren, Nortel Networks
Discussion:

Decision: **Agreed**

Document: **N4-030658**
CR: CR 29.002-501r4 (Rel-6)
Title: Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report
Source: Nortel Networks
Presented:
Discussion:
- This is a mirror CR for Rel-6.

Decision: **Agreed**

Document: **N4-030438**
CR: CR 29.002-598 (Rel-5)
Title: LCS Client external ID
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: **Agreed**

Document: **N4-030439**
CR: CR 29.002-599 (Rel-6)
Title: LCS Client external ID
Source: Siemens
Presented:
Discussion:
- This is a mirror CR for Rel-6.

Decision: **Agreed**

7.5 Bearer Independent Architecture

Document: **N4-030500**
CR: CR 29.232-057 (Rel-5)
Title: Alignment of references after renumbering of H248 by ITU-T
Source: Siemens
Presented: Mr. Peter Schmitt, Siemens
Discussion:
- HP: Two last bullet points should be reference "[17]".

Decision: Revised to N4-030694

Document: N4-030694

CR: CR 29.232-057r1 (Rel-5)

Title: Alignment of references after renumbering of H248 by ITU-T

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

Decision: Agreed

Document: N4-030578

CR: CR 29.205-006 (Rel-5)

Title: Alignment of references after renumbering of H248 by ITU-T

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- Ericsson: Editors note after references should be deleted.
 - o Agreed by meeting.

Decision: Revised to N4-030695

Document: N4-030695

CR: CR 29.205-006r1 (Rel-5)

Title: Alignment of references after renumbering of H248 by ITU-T

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- Reference [11] should Q.1902.6

Decision: Revised to N4-030712

Document: N4-030712

CR: CR 29.205-006r2 (Rel-5)

Title: Alignment of references after renumbering of H248 by ITU-T

Source: Siemens

Presented:

Discussion:

Decision: Agreed without presentation

7.6 Mobile Number Portability

Document: N4-030377

Title: Alignment of references after renumbering of H248 by ITU-T

Source: SA1

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

Decision: Noted

Document: N4-030680

Title: Proposed LS to SA1 & SA on MNP for pre-paid subscribers

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

Decision: Revised to N4-030721

Document: N4-030721

Title: Proposed LS to SA1 & SA on MNP for pre-paid subscribers

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- Ericsson is concerned about the use of "foreign" to denote a different PLMN rather than a different country.
 - o Siemens: This usage already exists in 23.066.

Decision: **Approved**

Document: **N4-030452**

Title: Charging Requirements for Calls and Short Messages from CAMEL pre-paid Subscribers in an MNP Environment

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- Principle approved with the rider that if we can't agree the CRs this week at WG level we need to provide an estimate of when the work can be completed.

Decision: **Principle approved**

Document: **N4-030434**

CR: CR 23.066-023 (Rel-5)

Title: IN-based solution for correct charging of calls to ported or non-porting subscribers originated by pre-paid subscribers

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- Siemens: It would make sense to approve this CR in isolation, because it allows an operator who chooses the IN-based solution to apply correct charging for on-net/off-net calls in an MNP environment.

Decision: **Revised to N4-030710**

Document: **N4-030710**

CR: CR 23.066-023r1 (Rel-5)

Title: IN-based solution for correct charging of calls to ported or non-porting subscribers originated by pre-paid subscribers

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

Decision: **Agreed**

Document: **N4-030434**

CR: CR 23.066-024 (Rel-5)

Title: SRF-based solution for correct charging of calls to ported or non-porting subscribers originated by pre-paid subscribers

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- This is a competitor to N4-030511 from Ericsson.
- Siemens: Since both the gsmSCF and the SRF support the SRI operation, the changes needed to support this approach are less far-reaching than those for Ericsson's approach.
 - o Nortel challenge this, because the SRI operation as currently defined would need to be significantly modified. Nortel believe this as a misuse of the SRI operation.
- Nokia prefer the use of the SRI operation, for the reasons stated by Siemens
- The Ericsson proposal would require significant changes to the ATI operation.
- Orange France support the use of ATI, because the use of SRI would require extra handling in the SRF.
- Siemens: The SRI result already includes parameters specific to MNP.
- Companies are unable to accept the other side's position
- CN4 can't progress until after CN #20.

Decision: Postponed

Document: N4-030448
CR: CR 22.115-012r1 (Rel-5)
Title: Charging Requirements in an MNP environment
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: Endorsed by CN4
Document: N4-030449
CR: CR 22.115-013r1 (Rel-6)
Title: Charging Requirements in an MNP environment
Source: Siemens
Presented:
Discussion:

Decision: Endorsed by CN4
Document: N4-030450
CR: CR 22.066-005r1 (Rel-5)
Title: Charging Requirements in an MNP environment
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: Endorsed by CN4
Document: N4-030451
CR: CR 22.066-005r1 (Rel-6)
Title: Charging Requirements in an MNP environment
Source: Siemens
Presented:
Discussion:

Decision: Endorsed by CN4

The rest of MNP were postponed

- Companies are unable to accept the other side's position.
- CN4 can't progress until after CN #20.

7.7 Scudif

Document: N4-030458
Title: Proposal of the one step HSS interrogation
Source: NTT DoCoMo
Presented:
Discussion:

- Triggered by the question on whether 23.172 links to 23.018, NTT DoCoMo accept that it should; Ericsson challenge this, claiming that there is no requirement for interaction with CAMEL and there is no need to show any SCUDIF-specific handling in 23.018.
- CN3 chairman: CN3 and CN1 have considered SCUDIF as a separate call type, based on CS data call handling; the existing principles for CS data calls, which are described in stage 3 & in 23.018. However the coverage of SCUDIF is purely within 23.172.
- Even if we accept that SCUDIF calls are not subject to CAMEL interactions, we need to show in the HLR behaviour in 23.018 that CAMEL handling has to be suppressed if the call is SCUDIF.

Decision: Noted

Document: N4-030459

CR: CR 23.172-??? (Rel-5)
Title: HSS interrogation for SCUDIF calls
Source: NTT DoCoMo
Presented:
Discussion:

- Ericsson: For backward compatibility reasons (i.e. an HLR which doesn't support SCUDIF) the speech component should always have priority, because if the multimedia component fails then the call would fail utterly, whereas if the speech component is always the highest priority then at least we can fall back to speech.
- NTT DoCoMo press their position that they want to be able to give priority to either speech or multimedia.

Decision: **Postponed**

Document: **N4-030460**
CR: CR 29.002-602 (Rel-5)
Title: HSS interrogation for SCUDIF calls
Source: NTT DoCoMo
Presented:
Discussion:

Decision: **Postponed**

Document: **N4-030507**
CR: CR 29.002-613 (Rel-5)
Title: Two-step HLR interrogation for SCUDIF calls
Source: Ericsson
Presented:
Discussion:

- Ericsson want to forward these CRs to CN again, accepting the possibility that SA1 may ask for CAMEL control of SCUDIF calls.
 - o NEC: CN #19 referred back these CRs to the WGs to try to reach consensus on the choice between one-step and two-step interrogation, and to consider CAMEL interactions.
- Ericsson: The current version of the SCUDIF WID doesn't include CAMEL interactions.
 - o Siemens: The WID doesn't need to be updated to reflect CAMEL interactions.
- CN3 chairman: It would be a waste of time to send the Ericsson CRs to CN plenary, because the opponents would object to them.
 - o Ericsson: It is out of order to object to a solution unless there is a viable counter-proposal.
- Meeting decided not to forward CRs to CN plenary because of many objections.

Decision: **Postponed as well as Rel-6 mirror of N4-030507**

Document: **N4-030672**
Title: Proposed LS to SA1 on interactions between CAMEL and SCUDIF calls
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Revised to N4-030719**

Document: **N4-030719**
Title: LS to SA1 on interactions between CAMEL and SCUDIF calls
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-030666**
Title: Discussion document on 2 step HLR interrogation for SCUDIF
Source: Vodafone

Presented: Mr. Nick Russell, Vodafone

Discussion:

- A document proposes that SCUDIF should be treated as a single basic service, which implies a single interrogation.
- Ericsson: How fallback to speech would be handled, especially if the HLR is only Release 4?
- The choice between two-step and one-step interrogation is really between 2 interrogations for successful SCUDIF and one for fallback (as proposed by Ericsson) or one for successful SCUDIF and a second try for fallback (which is the end result of NTT DoCoMo's proposal).
- CN4 chairman: If the first interrogation includes both BCIEs, one in the ExternalSignalInfo IE (defined for Rel-4 & earlier) and the second in an AdditionalExternalSignalInfo IE (new), a Rel-4 HLR would simply discard the additional IE and process the call using the ExternalSignalInfo, which gives the fallback without the need for a second interrogation.
- Ericsson are concern at the additional complexity of the HLR service logic if we use single-step interrogation rather than two-step. What about the supplementary service interactions for the basic service which corresponds to the BCIE in the second SRI? This needs to be specified in the stage 2 (23.018 or 23.172)

Decision: **Noted**

7.8 Qos

7.9 TrFO Codec Control

Document: **N4-030501**

CR: CR 23.153-051r1 (Rel-5)

Title: IMEISV to be included in the Container within the MM Context

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

- Ericsson: Mid-Call Codec Modification needs further study.

Decision: **Revised to N4-030617**

Document: **N4-030617**

CR: CR 23.153-051r2 (Rel-5)

Title: IMEISV to be included in the Container within the MM Context

Source: Siemens

Presented: Mr. Peter Schmitt, Siemens

Discussion:

Decision: **Agreed**

7.10 MAP specification cleanup

Document: **N4-030389**

CR: CR 29.002-578 (Rel-5)

Title: Provision of SDL diagrams and removal of redundant text in chapter 24A

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

Decision: **Revised to N4-030639**

Document: **N4-030639**

CR: CR 29.002-578r1 (Rel-5)

Title: Provision of SDL diagrams and removal of redundant text in chapter 24A

Source: Vodafone

Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-030640**
CR: CR 29.002-579r1 (Rel-6)
Title: Provision of SDL diagrams and removal of redundant text in chapter 24A
Source: Vodafone
Presented:
Discussion:

- Rel-6 mirror of N4-030639

Decision: **Agreed**

Document: **N4-030432**
CR: CR 29.002-593r1 (Rel-5)
Title: Provision of SDL diagrams and removal of redundant text in chapter 24
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Revised to N4-030670**

Document: **N4-030670**
CR: CR 29.002-593r2 (Rel-5)
Title: Provision of SDL diagrams and removal of redundant text in chapter 24
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Agreed**

Document: **N4-030671**
CR: CR 29.002-594r2 (Rel-6)
Title: Provision of SDL diagrams and removal of redundant text in chapter 24
Source: Vodafone
Presented:
Discussion:

- Rel-6 mirror of N4-030639

Decision: **Agreed**

Document: **N4-030467**
CR: CR 29.002-606 (Rel-5)
Title: Provision of SDL diagrams and removal of redundant text in chapter 22
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: **Revised to N4-030681**

Document: **N4-030681**
CR: CR 29.002-606r1 (Rel-5)
Title: Provision of SDL diagrams and removal of redundant text in chapter 22
Source: Vodafone
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030682**
CR: CR 29.002-607r1 (Rel-6)

Title: Provision of SDL diagrams and removal of redundant text in chapter 22
Source: Vodafone
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030513**
CR: CR 29.002-617 (Rel-5)
Title: Formal correction to the ASN.1 syntax of SendIdentificationRes
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Agreed**

7.11 Any Other Business for Release 5

7.11.1 Earlu UE handling

Document: **N4-030358**
Title: LS on early UE handling
Source: SA2
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

Decision: **Noted**

Document: **N4-030379**
Title: LS on Stage 3 work for Early UE handling
Source: SA2
Presented: CN4 vice chairman
Discussion:

Decision: **Noted**

Document: **N4-030576**
Title: LS on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults"
Source: SA2
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

Decision: **Noted**

Document: **N4-030593**
Title: LS on Stage 3 work for Early UE handling
Source: SA2
Presented: CN4 vice chairman
Discussion:

Decision: **Noted**

Document: **N4-030502**
Title: LS to SA2 on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults"
Source: CN4
Presented:
Discussion:

Decision: **LS was approved 9th May by CN4 email list**

Document: N4-030621
Title: REPLY LS to S2-031592 and S2-032154 on Stage 3 work for Early UE handling
Source: RAN3
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- Companies are invited to review the attached specification and submit contributions to the next meeting if needed.

Decision: Noted

Document: N4-030498
CR: CR 29.060-423 (Rel-5)
Title: IMEISV to be included in the Container within the MM Context
Source: Ericsson
Presented: Ms. Anna Jernryd, Ericsson
Discussion:

Decision: Agreed

Document: N4-030499
CR: CR 29.060-424 (Rel-6)
Title: IMEISV to be included in the Container within the MM Context
Source: Ericsson
Presented:
Discussion:

- This is a mirror CR for Rel-6.

Decision: Agreed without presentation

Document: N4-030503
CR: CR 29.002-609 (Rel-5)
Title: Transfer of UE-specific behaviour bitmap at handover
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Ericsson: Which cause code is used? LS to SA2 is needed?
 - o
- UESBI length 10 octets
- 3GPP TS 25.413 has to be mentioned.
- NEC: In chapter 7.6 a new parameter should be declared.
- Ericsson: Category should be F.
- Nokia: If GERAN introduce this parameter the CR is not needed.
- If GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use Bitmap solution

Decision: Revised to N4-030641

Document: N4-030641
CR: CR 29.002-609r1 (Rel-5)
Title: Transfer of UE-specific behaviour bitmap at handover
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Approved, if GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use Bitmap solution

Decision: Agreed

Document: N4-030642
CR: CR 29.002-610r1 (Rel-6)
Title: Transfer of UE-specific behaviour bitmap at handover
Source: Nokia

Presented:
Discussion:

- Rel-6 mirror of N4-030641

Decision: **Agreed**

Document: **N4-030574**

CR: CR 23.003-067 (R99)

Title: Defining the allocation of the SV component of IMEISV

Source: 3

Presented: Mr. Hatef Yamini, 3

Discussion:

- NEC: We would like to have more time to check CR because of SV changes from 0 to 1.
- Nokia: The SV numbering should start at 1.

Decision: **Revised to N4-030643**

Document: **N4-030643**

CR: CR 23.003-067r1 (R99)

Title: Defining the allocation of the SV component of IMEISV

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- NEC: why does the CR is needed for Release 99, when the "Late UE" work item is for Release 5. NEC object to the R99 CR.

Decision: **Rejected**

Document: **N4-030644**

CR: CR 23.003-068r1 (Rel-4)

Title: Defining the allocation of the SV component of IMEISV

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

Decision: **Rejected**

Document: **N4-030645**

CR: CR 23.003-068r1 (Rel-5)

Title: Defining the allocation of the SV component of IMEISV

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

Decision: **Revised to N4-030720**

Document: **N4-030720**

CR: CR 23.003-068r2 (Rel-5)

Title: Defining the allocation of the SV component of IMEISV

Source: Vodafone

Presented: Mr. Ian Park, Vodafone

Discussion:

- Motorola: We are concerned that the requirement will not be practically implementable by UE manufacturers.
- Siemens: This CR is not an essential part of the package for early UE.

Decision: **Rejected**

Document: **N4-030505**

CR: CR 29.002-611 (Rel-5)

Title: Enhancement of the CheckIMEI operation to retrieve the BMUEF

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- CR is based on the corrective CR by Vodafone on SMS
- Nokia: We could use the same subsystem number but clarification text is needed. It should be mentioned that the Bitmap request needs to be an EIR but the same Sub System can be used. Information text could be added in section 8.7.1.
- After discussion, CN4 agreed that we have only a one parameter (UESBI), which carries all the information. It will be used instead of BMUEF.
- Category is changed from B to F.
- Approved, if GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use Bitmap solution.
- Nokia: Consequences if not approved should be modified.

Decision: Revised to N4-030646

Document: N4-030646

CR: CR 29.002-611r1 (Rel-5)

Title: Enhancement of the CheckIMEI operation to retrieve the BMUEF

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- Approved, if GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use Bitmap solution
- UESBI name shall be used in ASN.1. BMUEF parameter refers to the Bit Map of UE Faults and corresponds to the UESBI parameter defined in 3GPP TS 25.413.
-

Decision: Approved

Document: N4-030647

CR: CR 29.002-612r1 (Rel-6)

Title: Enhancement of the CheckIMEI operation to retrieve the BMUEF

Source: Siemens

Presented: Mr. Ulrich Wiehe, Siemens

Discussion:

- Rel-6 mirror of N4-030641

Decision: Agreed

Document: N4-030557

CR: CR 29.002-627 (Rel-5)

Title: Transfer of IMEISV at handover

Source: Nokia

Presented: Mr. Jari Jansson, Nokia

Discussion:

- Nokia: The amount of corrections is needed because of changes in N4-030646.
- Approved, if GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use IMEISV solution

Decision: Revised to N4-030648

Document: N4-030648

CR: CR 29.002-627r1 (Rel-5)

Title: Transfer of IMEISV at handover

Source: Nokia

Presented: Mr. Jari Jansson, Nokia

Discussion:

- Approved, if GERAN doesn't introduce the UESBI parameter in BSSAP-PDU and RAN decide to use IMEISV solution

Decision: Agreed

Document: N4-030649

CR: CR 29.002-628r1 (Rel-6)

Title: Transfer of IMEISV at handover
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Rel-6 mirror of N4-030648

Decision: **Agreed**

Document: **N4-030559**
CR: CR 29.010-089 (Rel-5)
Title: Handling of UE-specific behaviour data in the relay MSC
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- 3: The note should be removed under chapter 3.7.1: " UESBI parameter is included by MSC-A only when the MSC-A uses 29.002 as per release 5. This IE is not included if the MSC-A is release 4 or earlier".
- Conditionally approved if GERAN does not enhance BSSAP PDU.

Decision: **Revised to N4-030650**

Document: **N4-030650**
CR: CR 29.010-089r1 (Rel-5)
Title: Handling of UE-specific behaviour data in the relay MSC
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Conditionally approved if GERAN does not change BSSAP PDU.

Decision: **Conditionally approved**

Document: **N4-030651**
CR: CR 29.010-090 (Rel-5)
Title: Handling of UE-specific behaviour data in the relay MSC
Source: Nokia
Presented: Mr. Jari Jansson, Nokia
Discussion:

- Another solution if GERAN change BSSAP PDU.
- Only 29.010-089r1 or 29.010-090 will be approved after GERAN have chosen a solution.

Decision: **Agreed**

Document: **N4-030555**
CR: CR 23.012-010 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- Ericsson: Should we have IMEISV version without UESBI converting?

Decision: **Revised to N4-030652**

Document: **N4-030652**
CR: CR 23.012-010r1 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- Approved if Bitmap solution is selected by RAN.

Decision: **Agreed**

Document: **N4-030653**

CR: CR 23.012-011 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented:
Discussion:

- Approved if IMEISV solution is selected by RAN.

Decision:

Document: **N4-030556**
CR: CR 23.018-124 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- Check has to be inserted which checks the support of UESBI.
-

Decision: **Revised to N4-030660**

Document: **N4-030660**
CR: CR 23.018-124r1 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented:
Discussion:

- CR is in case of Bitmap solution.

Decision: **Agreed**

Document: **N4-030661**
CR: CR 23.018-125 (Rel-5)
Title: Addition of procedure to retrieve UE-specific behaviour data
Source: Vodafone
Presented:
Discussion:

- CR is in case of IMEISV solution.

Decision: **Agreed**

Document: **N4-030577**
CR: CR 23.008-068 (Rel-5)
Title: Storage of UESBI in the VLR and SGSN
Source: Vodafone
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

- Siemens disagree that UESBI information under 2.2.3 can be used as subscriber data.
 - o Vodafone D2: The easiest way is to store it as subscriber data.
- NEC: UESBI is not store in subscriber databases.
- Siemens and Nokia: UESBI should not be stored in this table.

Decision: **Revised to N4-030693**

Document: **N4-030693**
CR: CR 23.008-068r1 (Rel-5)
Title: Storage of UESBI in the VLR and SGSN
Source: Vodafone
Presented: Mr. Peter Wild, Vodafone D2
Discussion:

-

Decision: **Agreed**

Document: N4-030703
CR: CR 23.009-097r3 (Rel-5)
Title: Addition of UESBI-lu to handover and relocation procedures
Source: Nokia
Presented: Mr. Jari Jansson,Nokia
Discussion:
-

Decision: Endorsed by CN4

8 UMTS Release 4 & Release 99 maintenance

8.1 Location services

Document: N4-030547
CR: CR 29.010-086 (R99)
Title: LCS Cause Code Mappings between RANAP & BSSMAP
Source: Ericsson
Presented: Phil Hodges, Ericsson
Discussion:
-

Decision: Agreed

Document: N4-030548
CR: CR 29.010-087 (Rel-4)
Title: LCS Cause Code Mappings between RANAP & BSSMAP
Source: Ericsson
Presented:
Discussion:

- A mirror CR for Rel-4.

Decision: Agreed

Document: N4-030549
CR: CR 29.010-088 (Rel-5)
Title: LCS Cause Code Mappings between RANAP & BSSMAP
Source: Ericsson
Presented:
Discussion:

- A mirror CR for Rel-5.

Decision: Agreed

8.2 Bearer independent architecture

Document: N4-030529
Title: OoB DTMF discussion paper
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- For Release 4 in order to minimise the impacts to a frozen release the following is proposed:
 - o Define that nodes shall not duplicate digits both inband or OoB. I.e. if sending OoB then inband tones shall be removed from the user plane.
 - o Digits may be sent in both inband and OoB in the PCM case for the same call but not the same digit.
 - o Define minimum DTMF duration and minimum gap between DTMF tones and maximum digit durations to be timed by the MGW (according to ETSI ETR 206).
- Nokia: Future improvements need further study.

- Proposals are agreed in principles by meeting. Future improvements need more clarification.

Decision: **Noted**

Document: **N4-030530**
CR: CR 23.205-041 (Rel-4)
Title: OoB DTMF Clarifications
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-030531**
CR: CR 23.205-045 (Rel-5)
Title: OoB DTMF Clarifications
Source: Ericsson
Presented:
Discussion:

- Rel-5 mirror of N4-030530.

Decision: **Approved**

Document: **N4-030532**
CR: CR 23.205-043 (Rel-4)
Title: OoB DTMF Timing
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Lucent: We should remove the note and make it as normative paragraph.
 - o Agreed by meeting.

Decision: **Revised to N4-030615**

Document: **N4-030615**
CR: CR 23.205-043r1 (Rel-4)
Title: OoB DTMF Timing
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030616**
CR: CR 23.205-044r1 (Rel-5)
Title: OoB DTMF Timing
Source: Ericsson
Presented:
Discussion:

- Rel-5 mirror of N4-030615.

Decision: **Agreed**

Document: **N4-030534**
CR: CR 29.232-058 (Rel-4)
Title: DTMF timing requirements on MGW
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Agreed**

Document: N4-030535
CR: CR 29.232-059 (Rel-5)
Title: DTMF timing requirements on MGW
Source: Ericsson
Presented:
Discussion:

- This is a Rel-5 mirror of N4-030534.

Decision: Agreed

8.3 GPRS

Document: N4-030370
Title: LS on sending the SGSN's MNC and MCC to the GGSN and service nodes
Source: SA5
Presented: Mr. Peter Schmitt, CN4 vice chairman
Discussion:

- Ericsson: The last SA2 has discussed about the topic in the last SA2 meeting, but the subject was postponed to next SA2 meeting. CN4 don't have stage 2 requirements.
- Vodafone D2: We don't need to do anything in protocol level. This can be done in service level.
- LS to SA5 N4-030685.

Decision: Noted

Document: N4-030685
Title: Proposed LS on sending the SGSN's MNC and MCC to the GGSN and service nodes
Source: Ericsson
Presented: Ms. Anna Jernryd, Ericsson
Discussion:

Decision: Approved

Document: N4-030406
CR: CR 29.060-405 (R99)
Title: Correction for PDP Context Response with no PDP Contexts
Source: Nortel Networks
Presented: Dr. Daniel Warren, Nortel
Discussion:

- Lucent: The first part of correction is not acceptable.
 - o Agreed by meeting
- Nokia disagree this is an essential correction. They can't accept changes for R99 & Rel-4.

Decision: Revised to N4-030686

Document: N4-030686
CR: CR 29.060-405r1 (R99)
Title: Correction for PDP Context Response with no PDP Contexts
Source: Nortel Networks
Presented: Dr. Daniel Warren, Nortel
Discussion:

Decision: Agreed

Document: N4-030687
CR: CR 29.060-406r1 (Rel-4)
Title: Correction for PDP Context Response with no PDP Contexts
Source: Nortel Networks
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030688**
CR: CR 29.060-407r1 (Rel-5)
Title: Correction for PDP Context Response with no PDP Contexts
Source: Nortel Networks
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030689**
CR: CR 29.060-408r1 (Rel-6)
Title: Correction for PDP Context Response with no PDP Contexts
Source: Nortel Networks
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030424**
CR: CR 29.002-534r1 (Rel-4)
Title: Additional SGSN related Access Types - Detach
Source: Alcatel
Presented: Mr. Peter Hupperich, Alcatel
Discussion:
- Nokia: 17.7.1 editorial corrections are needed.

Decision: **Revised to N4-030690**

Document: **N4-030690**
CR: CR 29.002-534r2 (Rel-4)
Title: Additional SGSN related Access Types - Detach
Source: Alcatel
Presented: Mr. Peter Hupperich, Alcatel
Discussion:
- This is an essential correction.

Decision: **Agreed**

Document: **N4-030691**
CR: CR 29.002-535r2 (Rel-5)
Title: Additional SGSN related Access Types - Detach
Source: Alcatel
Presented:
Discussion:
- Rel-5 mirror of N4-030690

Decision: **Agreed**

Document: **N4-030692**
CR: CR 29.002-536r2 (Rel-6)
Title: Additional SGSN related Access Types - Detach
Source: Alcatel
Presented:
Discussion:
- Rel-6 mirror of N4-030690

Decision: **Agreed**

Document: **N4-030427**
CR: CR 23.003-063 (R99)

Title: Correction to Annex C.3 – Target ID
Source: Alcatel
Presented: Mr. Peter Hupperich, Alcatel
Discussion:

- Vodafone D2: Consequences if not approved needs to be improved.
- This is an essential correction.

Decision: **Agreed**

Document: **N4-030428**
CR: CR 23.003-064 (Rel-4)
Title: Correction to Annex C.3 – Target ID
Source: Alcatel
Presented:
Discussion:

- Rel-4 mirror of N4-030427

Decision: **Agreed**

Document: **N4-030429**
CR: CR 23.003-065 (Rel-5)
Title: Correction to Annex C.3 – Target ID
Source: Alcatel
Presented:
Discussion:

- Rel-4 mirror of N4-030427.

Decision: **Agreed**

Document: **N4-030442**
CR: CR 29.002-600 (R99)
Title: Alignment of TS 29.002 with TS 23.107 regarding QoS subscribed data
Source: Lucent
Presented: Mr. Alessio Casati, Lucent
Discussion:

- CN4 had a strong opinion that the independency is not possible.
- Ericsson: There are no current requirements that they shall be independent.
- Ericsson: R97 QoS can be derived from R99 QoS.
- Ericsson challenge this is an essential correction for R99. The other vendors haven't opinion.
-

Decision: **Rejected**

8.4 Camel phase 3

8.5 TrFO/Codec control

Document: **N4-030539**
CR: CR 23.153-056 (Rel-4)
Title: DTMF Clarifications
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

Decision: **Approved**

Document: **N4-030540**
CR: CR 23.153-057 (Rel-5)
Title: DTMF Clarifications

Source: Ericsson
Presented:
Discussion:
- Rel-5 mirror of N4-030539.

Decision: **Approved**

Document: **N4-030697**
CR: CR 23.153-054r1 (Rel-4)
Title: PCM codec handling clarifications
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:
- SDU supports only 64k/bits.
- An editorial modification was made.

Decision: **Revised to N4-030699**

Document: **N4-030699**
CR: CR 23.153-054r2 (Rel-4)
Title: PCM codec handling clarifications
Source: Ericsson
Presented:
Discussion:
-

Decision: **Agreed**

Document: **N4-030700**
CR: CR 23.153-055r1 (Rel-5)
Title: PCM codec handling clarifications
Source: Ericsson
Presented:
Discussion:
- Rel-5 mirror of N4-030699.

Decision: **Agreed**

Document: **N4-030698**
CR: CR 23.153-058 (Rel-4)
Title: TMR handling
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:
- The last bullet point will be changed: "...TMR=speech shall be used for speech calls with OoBTC for other TMR OoBTC shall not be used."

Decision: **Revised to N4-030701**

Document: **N4-030701**
CR: CR 23.153-058r2 (Rel-4)
Title: TMR handling
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:
-

Decision: **Agreed**

Document: **N4-030702**
CR: CR 23.153-059r1 (Rel-5)
Title: TMR handling
Source: Ericsson

Presented:
Discussion:

- Rel-5 mirror of N4-030701.

Decision: **Agreed**

Document: **N4-030543**
CR: CR 23.153-060 (Rel-4)
Title: Clarification Of luUP Initialisation during codec modification
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Siemens: There is a linkage between this CR and one from RAN3..
- Ericsson: We need to wait until we see the RAN3 output before we consider changes to our spec; he thinks that these CRs can stand alone.
 - o Nokia support the Siemens position.
- Ericsson: This has been the subject of a lot of debate in RAN3. The only time that synchronisation of change of speech is needed is when there is transcoding. If the lu user plane is initialised, then there is bound to be an audible click for the user, but if we don't initialise the lu UP then synchronisation is possible.
 - o Nokia: Our experts say that the re-initialisation takes 30-40 ms.
- Siemens: In the majority of cases of codec change it will be necessary to re-initialise because the SDU requirements will change.
- Ericsson: The 30-40ms break will happen for every link, so the cumulative effect will be severe.
 - o Nortel support Ericsson's view.
- Siemens challenge the classification as an essential correction.
 - o Ericsson: This is essential as a part of the package for support of service change. Last time round, Siemens accepted that these CRs (or at least the Rel-5 mirror) were necessary. Since the change is not backward compatible, we need to change Release 4 as well.
- CN4 agreed to send CR package for approval in CN#20. Siemens and Nokia have reserved right to object these CRs in CN plenary.
- Siemens: These CRs are not a complete solution.
 - o Ericsson: Supplementary CRs can be generated.

Decision: **Agreed**

Document: **N4-030544**
CR: CR 23.153-061 (Rel-4)
Title: Clarification Of luUP Initialisation during codec modification
Source: Ericsson
Presented:
Discussion:

Decision: **Agreed**

Document: **N4-030545**
CR: CR 29.232-055 (Rel-4)
Title: Independence of SDU and Application
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Siemens and Nokia have reserved right to object these CRs in CN plenary.

Decision: **Agreed**

Document: **N4-030546**
CR: CR 29.232-056 (Rel-5)
Title: Independence of SDU and Application
Source: Ericsson
Presented:
Discussion:

- Siemens can't agree this is an essential correction.
 - o Majority of companies disagree with Siemens.
- Siemens and Nokia have reserved right to object these CRs in CN plenary.

Decision: **Agreed**

8.6 Any other business for Release 4 or Release 99

8.6.1 MAP signalling security

Document: **N4-030393**
CR: CR 29.002-582 (Rel-4)
Title: Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"
Source: Hughes Software Systems
Presented: Mr. Vikas Dhingra, HSS
Discussion:

- This is an essential correction.
- Consequences if not approved needs improvement

Decision: **Revised to N4-030654**

Document: **N4-030654**
CR: CR 29.002-582r1 (Rel-4)
Title: Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"
Source: Hughes Software Systems
Presented: Mr. Vikas Dhingra, HSS
Discussion:

-

Decision: **Postponed**

Document: **N4-030396**
CR: CR 29.002-585 (Rel-4)
Title: For dialog portion what protection mode shall be used
Source: Hughes Software Systems
Presented: Mr. Vikas Dhingra, HSS
Discussion:

- Siemens: The changes should be define in stage 2 specification.
 - o Nokia agree that changes should be defined in stage 2 3GPP TS 23.200.
- LS is not needed. HSS will present stage 2 CRs directly in SA3

Decision: **Withdrawn**

Document: **N4-030399**
CR: CR 29.002-588 (Rel-4)
Title: MAP is not able to apply fall-back while interacting with Rel99 or earlier
Source: Hughes Software Systems
Presented: Mr. Vikas Dhingra, HSS
Discussion:

- Vodafone D2: The operators who want to use MAP security only if there are no need for unsecured fallback.
- NEC: There are no requirements to start with MAP security signalling and fallback non-security signalling which mean there are no cases in MAP security where fallback is needed.
- CN4 agreed that clarifications are needed the corrections have to be done in stage 2.

Decision: **Rejected**

8.6.2 SuperCharger

Document: N4-030518
CR: CR 23.116-005 (Rel-4)
Title: Correction on Cancel Location within a Super-Charged network
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Companies didn't believe this is an critical correction.

Decision: Withdrawn

8.6.3 MAP Protocol

Document: N4-030520
CR: CR 29.002-620 (R99)
Title: Correction on Resume Call Handling Operation
Source: Ericsson
Presented: Mr. Phil Hodges, Ericsson
Discussion:

- Siemens, NEC and Nokia: CR is not necessary.
- NEC:
- Postponed to Camel session.

Decision: Withdrawn

Document: N4-030598
CR: CR 29.002-630 (R99)
Title: Missing SMS transmission via MSC
Source: Siemens
Presented: Mr. Ulrich Wiehe, Siemens
Discussion:

Decision: Agreed

Document: N4-030599
CR: CR 29.002-631 (Rel-4)
Title: Missing SMS transmission via MSC
Source: Siemens
Presented:
Discussion:

Decision: Agreed

Document: N4-030600
CR: CR 29.002-632 (Rel-5)
Title: Missing SMS transmission via MSC
Source: Siemens
Presented:
Discussion:

Decision: Agreed

Document: N4-030601
CR: CR 29.002-633 (Rel-6)
Title: Missing SMS transmission via MSC
Source: Siemens
Presented:
Discussion:

Decision: Agreed

9 GSM maintenance

9.1 Subscriber data management

Document: N4-030382
CR: CR 03.08-A040 (R97)
Title: Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature
Source: Vodafone
Presented: Mr. Ian Park, Vodafone
Discussion:

Decision: Agreed

Document: N4-030383
CR: CR 03.08-A041 (R98)
Title: Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature
Source: Vodafone
Presented:
Discussion:

Decision: Agreed

Document: N4-030384
CR: CR 23.008-119 (R99)
Title: Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature
Source: Vodafone
Presented:
Discussion:

Decision: Agreed

Document: N4-030385
CR: CR 23.008-120 (Rel-4)
Title: Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature
Source: Vodafone
Presented:
Discussion:

Decision: Agreed

Document: N4-030386
CR: CR 23.008-121 (Rel-5)
Title: Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature
Source: Vodafone
Presented:
Discussion:

Decision: Agreed

10 AOB

10.1 Election of CN4 Chairman

Mr. Peter Schmitt, Siemens was elected as unopposed.

10.2 Election of CN4 Vice-chairmen

On the first round of voting, with 23 valid ballot papers submitted (each with 2 votes on it) the votes cast were:

Nigel Berry: 4 votes (17.4%)
Toshiyuki Tamura: 16 votes (69.6%)
Dan Warren: 8 votes (34.8%)
Peter Wild: 15 votes (65.2%)
Abstentions: 3 (13.0%)

Nigel Berry withdrew after the first round.

On the fsecond round of voting, with 20 valid ballot papers submitted (each with 3 votes on it) the votes cast were:

Toshiyuki Tamura: 86.5% - elected
Dan Warren: 43.2%
Peter Wild: 70.3%

Dan Warren withdrew, Peter Wild was elected without the need for a third round.

The new vice-chairmen for next two years June 2003 - June 2005 are:

Mr, Toshiyuki Tamura, NEC and Mr.Peter Wild, Vodafone D2

11 Update of the Work Plan

Will be updated offline after meeting

12 Future meeting

Date	Meeting	Place	Host
19 - 23 May 2003	CN WGs 1, 2, 3 & 4	San Diego, USA	North American Friends of 3GPP
4 – 6 Jun 2003	CN plenary #20	Hämeenlinna, Finland	Nokia
18 - 22 Aug 2003	CN WGs 1, 2, 3 & 4	Sophia Antipolis, France	ETSI
17 – 19 Sep 2003	CN plenary #21	Berlin, Germany	Siemens
27 - 31 Oct 2003	CN WGs 1, 2, 3 & 4	TBD	Ericsson
17 – 21 Nov 2003	CN WG 4 (if needed)	?	?
10 – 12 Dec 2003	CN plenary #22	Hawaii, USA	North American & Japanese Friends of 3GPP
16 – 20 Feb. 2004	CN WGs 1, 2, 3 & 4	TBD	
10 - 12 Mar 2004	CN plenary #23	China ; CN	
10-14 May 2004	CN WGs 1, 2, 3 & 4	TBD	
2 - 4 Jun 2004	CN plenary #24	Korea; KR	
16 – 20 August	CN WGs 1, 2, 3 & 4	TBD	
8 - 10 Sep 2004	CN plenary #25	US ; US	
11 – 15 Oct 2004 or 15 – 19 Nov 2004	CN WGs 1, 2, 3 & 4	TBD	

Date	Meeting	Place	Host
08 -10 Dec 2004	CN plenary #26	Athene, GREECE	

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

13 Output of CN4#19

13.1 Change Requests

Tdoc N4-03	Title	Original source
0382	CR 03.08-A040 (R97) on Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone
0383	CR 03.08-A042 (R98) on Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone
0384	CR 23.008-119 (R99) on Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone
0385	CR 23.008-120 (Rel-4) on Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone
0386	CR 23.008-121 (Rel-5) on Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone
0391	CR 29.002-580 (Rel-6) on Provision of SDL diagrams in chapter 24B	Vodafone
0392	CR 29.002-581 (Rel-6) on Provision of SDL diagrams in chapter 24B	Vodafone
0421	CR 29.060-410 (Rel-6) on Controlling compression performed on the SGSN	Vodafone
0427	CR 23.003-063 (R99) on Correction to Annex C.3 – Target ID	Alcatel
0428	CR 23.003-064 (Rel-4) on Correction to Annex C.3 – Target ID	Alcatel
0429	CR 23.003-065 (Rel-5) on Correction to Annex C.3 – Target ID	Alcatel
0438	CR 29.002-598 (Rel-5) on LCS Client external ID	Siemens
0439	CR 29.002-599 (Rel-6) on LCS Client external ID	Siemens
0440	CR 23.018-122 (Rel-5) on Release Result from CAMEL_MT_GMSC_Notify_CF	Vodafone
0455	CR 29.228-043 (Rel-5) on Correct use of the Result-Code AVP	Ericsson
0456	CR 29.328-027 (Rel-5) on Discrepancy between XML schema of Cx and Sh interface	Ericsson
0457	CR 29.329-016 (Rel-5) on Correction on Current-Location AVP values	Ericsson
0470	CR 29.229-019 (Rel-5) on Conditionality of User-Name AVP in Server-Assignment-Answer	Nokia
0473	CR 29.228-047 (Rel-5) on Clarification on the Server-Assignment-Type NO_ASSIGNMENT	Nokia
0476	CR 29.328-029 (Rel-5) on Correction to the use of User-Identity	Nokia
0477	CR 29.329-018 (Rel-5) on Correction to the use of User-Identity	Nokia
0494	CR 29.328-030 (Rel-5) on Clarification on the handling of the "Charging Information" via the Sh Interface	France Télécom
0496	CR 29.060-421 (Rel-5) on QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet	LM Ericsson, Nokia
0497	CR 29.060-422 (Rel-6) on QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet	LM Ericsson, Nokia
0498	CR 29.060-423 (Rel-5) on IMEISV to be included in the Container within the MM Context	LM Ericsson, 3
0499	CR 29.060-424 (Rel-6) on IMEISV to be included in the Container within the MM Context	LM Ericsson, 3
0513	CR 29.002-617 (Rel-5) on Formal correction to the ASN.1 syntax of SendIdentificationRes	ERICSSON L.M.
0530	CR 23.205-041 (Rel-4) on OoB DTMF Clarifications	LM Ericsson

Tdoc N4-03	Title	Original source
0531	CR 23.205-042 (Rel-5) on OoB DTMF Clarifications	LM Ericsson
0534	CR 29.232-058 (Rel-4) on DTMF timing requirements on MGW	LM Ericsson
0535	CR 29.232-059 (Rel-5) on DTMF timing requirements on MGW	LM Ericsson
0539	CR 23.153-056 (Rel-4) on DTMF Clarifications	LM Ericsson
0540	CR 23.153-057 (Rel-5) on DTMF Clarifications	LM Ericsson
0543	CR 23.153-060 (Rel-4) on Clarification Of luUP Initialisation during codec modification	LM Ericsson
0544	CR 23.153-061 (Rel-5) on Clarification Of luUP Initialisation during codec modification	LM Ericsson
0545	CR 29.232-055 (Rel-4) on Independence of SDU and Application	LM Ericsson
0546	CR 29.232-056 (Rel-5) on Independence of SDU and Application	LM Ericsson
0547	CR 29.010-086 (R99) on LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson
0548	CR 29.010-087 (Rel-4) on LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson
0549	CR 29.010-088 (Rel-5) on LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson
0598	CR 29.002-630 (R99) on Missing SMS transmission via MSC	Siemens
0599	CR 29.002-631 (Rel-4) on Missing SMS transmission via MSC	Siemens
0600	CR 29.002-632 (Rel-5) on Missing SMS transmission via MSC	Siemens
0601	CR 29.002-633 (Rel-6) on Missing SMS transmission via MSC	Siemens
0604	CR 29.228-049 (Rel-5) on Misalignment Public-User-Identity IE	Ericsson
0605	CR 29.228-050 (Rel-5) on Duplicated Destination-Host AVP within MAR command mode	Ericsson
0608	CR 29.002-608r1 (Rel-6) on Addition of LCS capability sets to MAP_SRI_for_LCS response	NEC
0609	CR 29.002-624r1 (Rel-6) on Addition of Privacy Check Related Action to Provide Subscriber Location request	Nokia
0615	CR 23.205-043r1 (Rel-4) on OoB DTMF Timing	LM Ericsson
0616	CR 23.205-044r1 (Rel-5) on OoB DTMF Timing	LM Ericsson
0617	CR 23.153-051r2 (Rel-5) on Inter-MSC SRNS relocation with TrFO	Siemens
0624	CR 29.228-044r1 (Rel-5) on Conditionality of User-Name AVP in Server-Assignment-Answer	Nokia
0626	CR 29.228-046r1 (Rel-5) on Deregistration of implicitly registered public user identities	Nokia
0627	CR 29.328-022r1 (Rel-5) on Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
0628	CR 29.329-014r1 (Rel-5) on Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom, Vodafone
0629	CR 29.328-023r1 (Rel-5) on Enhanced description of Sh-Pull Request and Response	Nortel Networks, Nokia, Ericsson, Vodafone
0632	CR 29.329-019r1 (Rel-5) on Correction to the use of Data-Reference	Nokia
0633	CR 29.328-024r2 (Rel-5) on Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response	Nortel Networks
0634	CR 29.329-015r1 (Rel-5) on Command code correction for UDA plus editorial corrections.	Nortel Networks
0635	CR 29.228-048r1 (Rel-5) on Incorrect use of result-code	HP
0636	CR 29.328-025r2 (Rel-5) on A range of editorial changes and corrections and additions of references	Nortel Networks
0637	CR 29.002-595r1 (Rel-6) on Removal of redundant text from 29.002 Chapter 23	Vodafone
0638	CR 29.002-574r1 (Rel-6) on Provision of SDL diagrams and removal of redundant text in chapter 25	Vodafone

Tdoc N4-03	Title	Original source
0639	CR 29.002-578r1 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone
0640	CR 29.002-579r1 (Rel-6) on Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone
0641	CR 29.002-609r1 (Rel-5) on Transfer of UE-specific behaviour bitmap at handover	Nokia
0642	CR 29.002-610r1 (Rel-6) on Transfer of UE-specific behaviour bitmap at handover	Nokia
0646	CR 29.002-611r1 (Rel-5) on Enhancement of the CheckIMEI operation to retrieve the BMUEF	Siemens
0647	CR 29.002-612r1 (Rel-6) on Enhancement of the CheckIMEI operation to retrieve the BMUEF	Siemens
0648	CR 29.002-627r1 (Rel-5) on Transfer of IMEISV at handover	Nokia
0649	CR 29.002-628r1 (Rel-6) on Transfer of IMEISV at handover	Nokia
0650	CR 29.010-089r1 (Rel-5) on Handling of UE-specific behaviour data in the relay MSC	Nokia
0651	CR 29.010-090 (Rel-5) on Handling of UE-specific behaviour data in the relay MSC	Nokia
0652	CR 23.012-010r1 (Rel-5) on Addition of procedure to retrieve UE-specific behaviour data	Vodafone
0653	CR 23.012-011 (Rel-5) on Addition of procedure to retrieve UE-specific behaviour data	Vodafone
0657	CR 29.002-500r5 (Rel-5) on Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report	Nortel Networks
0658	CR 29.002-568r4 (Rel-6) on Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report	Nortel Networks
0660	CR 23.018-124r1 (Rel-5) on Addition of procedure to retrieve UE-specific behaviour data	Vodafone
0661	CR 23.018-125 (Rel-5) on Addition of procedure to retrieve UE-specific behaviour data	Vodafone
0664	CR 29.060-411r1 (Rel-5) on Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson
0665	CR 29.060-412r1 (Rel-6) on Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson
0670	CR 29.002-593r2 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone
0671	CR 29.002-594r2 (Rel-6) on Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone
0677	CR 29.002-618r2 (Rel-5) on Correction to naming of PRN parameter	ERICSSON L.M.
0678	CR 29.002-619r1 (Rel-6) on Correction to naming of PRN parameter	ERICSSON L.M.
0679	CR 23.018-115r4 on Stopping No_Answer timer in the case of forwarding notification	Ericsson
0681	CR 29.002-606r1 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 22	Vodafone
0682	CR 29.002-607r1 (Rel-6) on Provision of SDL diagrams and removal of redundant text in chapter 22	Vodafone
0683	CR 29.002-634 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 25	Vodafone
0684	CR 29.002-635 (Rel-5) on Removal of redundant text from 29.002 Chapter 23	Vodafone
0686	CR 29.060-405r1 (R99) on Correction for PDP Context Response with no PDP Contexts	Nortel Networks
0687	CR 29.060-406r1 (Rel-4) on Correction for PDP Context Response with no PDP Contexts	Nortel Networks
0688	CR 29.060-407r1 (Rel-5) on Correction for PDP Context Response with no PDP Contexts	Nortel Networks

Tdoc N4-03	Title	Original source
0689	CR 29.060-408r1 (Rel-6) on Correction for PDP Context Response with no PDP Contexts	Nortel Networks
0690	CR 29.002-534r2 (Rel-4) on Additional SGSN related Access Types - Detach	Alcatel
0691	CR 29.002-535r2 (Rel-5) on Additional SGSN related Access Types - Detach	Alcatel
0692	CR 29.002-536r2 (Rel-6) on Additional SGSN related Access Types - Detach	Alcatel
0693	CR 23.008-068r1 (Rel-5) on Storage of UESBI in the VLR and SGSN	Vodafone
0694	CR 29.232-057r1 (Rel-5) on Alignment of references after renumbering of H248 by ITU-T	Siemens
0699	CR 23.153-054r2 (Rel-4) on PCM codec handling clarifications	LM Ericsson
0700	CR 23.153-055r1 (Rel-5) on PCM codec handling clarifications	LM Ericsson
0701	CR 23.153-058r2 (Rel-4) on TMR handling	LM Ericsson
0702	CR 23.153-059r1 (Rel-5) on TMR handling	LM Ericsson
0704	CR 29.060-419r2 (Rel-5) on Definition of reserved TEID value	Nokia
0705	CR 29.060-420r2 (Rel-6) on Definition of reserved TEID value	Nokia
0710	CR 23.066-023r1 (Rel-5) on IN-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers	Siemens
0711	CR 29.228-045r2 (Rel-5) on Corrections to the base 64 encoding examples	Nokia
0712	CR 29.205-006r2 (Rel-5) on Alignment of references after renumbering of H248 by ITU-T	Siemens
0713	CR 29.002-595r2 (Rel-6) on Removal of redundant text from 29.002 Chapter 23	Vodafone

13.2 Output LSs

Tdoc N4-03	Title	Original source
0502	Proposed LS to SA2 on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults"	Vodafone
0607	Proposed LS to SA2 (cc to OMA LWG) on the Introduction of Anonymous Subscribers and the Lid interface	Vodafone
0619	Proposed LS to ENF (cc SA1 & SA2) on Use of E164 numbers for emerging mobile systems	Vodafone
0663	Proposed LS to SA2 & SA3 on security issues regarding multiple access connections	Nortel Networks
0676	Proposed LS to SA2 on CAMEL support for the Presence Service	NTT DoCoMo
0685	Reply LS on sending the SGSN's MNC and MCC to the GGSN and service node	L M Ericsson
0717	Proposed LS to T2 on terminal MMS capability discovery prior MM notification	Nokia
0719	Proposed LS to SA1 on interactions between CAMEL and SCUDIF calls	ERICSSON L.M.
0721	Proposed LS to SA1 & SA on MNP for pre-paid subscribers	Siemens

13.3 Agreed Technical Specifications & Technical Reports to be sent for information or approval to TSG-CN #19

Tdoc N4-03	Title	Original source

13.4 Agreed Work Item Descriptions to be sent for approval to TSG-CN #19

Tdoc N4-03	Title	Original source
0603	WID: Enhancements to the CX and Sh interfaces	Lucent, Ericsson, Nokia

Annex A : Participants

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Annex B: List of Temporary Documents

Tdoc n° 3GPP	List of Temporary Documents	Source	Status
N4-030331	Preliminary agenda for CN4 #19	CN4 chairman	Revised
N4-030332	Detailed agenda & time plan for CN4 #19: status at document deadline	CN4 chairman	Revised
N4-030333	Detailed agenda & time plan for CN4 #19: status on eve of meeting	CN4 chairman	Revised
N4-030334	Proposed allocation of documents to agenda items for CN4 #19: status at document deadline	CN4 chairman	Revised
N4-030335	Proposed allocation of documents to agenda items for CN4 #19: status on eve of meeting	CN4 chairman	Approved
N4-030336	Proposed allocation of documents to agenda items for joint session with CN2 on CAMEL	CN4 chairman	Revised to N4-030630
N4-030337	Summary report from CN #19 & SA #19, Birmingham, UK	CN4 chairman	Noted
N4-030338	List of approved output documents	CN4 chairman	Approved
N4-030339	Removal of redundant text from 29.002 Chapter 23	Vodafone	Revised to N4-030637
N4-030340	Detailed agenda & time plan for CN4 #19: status on eve of meeting	CN4 chairman	Approved
N4-23052003_1530	Valete	CN4 chairman	Noted
N4-030341	CN4#18 meeting report Dublin, EIRE	MCC	Approved
N4-030342	Work Plan	MCC	Revised to N4-030696
N4-030343	LS on Use of E164 numbers for emerging mobile systems	SA1	Noted
N4-030344	LS on updated WID for emergency call enhancements for IP & PS based calls	CN1	Noted
N4-030345	LS on proposed deletion of security-related work items in TSG-CN	CN plenary	Noted
N4-030346	LS on Request for Inter-GMLC (Lr) Interface Work Item progress report	OMA-LOC	Noted
N4-030347	LS on QoS for Signalling PDP Context	RAN3	Noted
N4-030348	Response to LS on Structure of IMS Charging Identifier (ICID)	SA2	Note
N4-030349	LS Response on Inclusion of CCF/ECF addresses on Sh interface	SA2	Noted
N4-030350	Response to LSs on Use of E164 numbers for data only terminals	SA2	Noted
N4-030351	Liaison Statement on Management of the AMR in PS conversational	SA2	Noted
N4-030352	Response to LS on clarification on the requirement for UE re-authentication initiated by HSS	SA2	Noted
N4-030353	Reply LS on SS barring for SMS transfer over GPRS	SA2	Noted
N4-030354	Reply LS on Inter-GMLC (Lr) Interface protocol development	SA2	Noted
N4-030355	Liaison Statement on Core Network Provision of separate flows for P2P and P2M radio Transmission	SA2	Noted
N4-030356	LS on Clarification of Scenario 2 and Scenario 3 architectural characteristics and stable and non-stable parts of TS 23.234	SA2	Noted
N4-030357	Reply LS on updated WID for emergency call enhancements for IP & PS based calls	SA2	Noted

N4-030358	LS on early UE handling	SA2	Noted
N4-030359	Reply LS on "LS on additional parameters in MAP for LCS with GERAN Access"	SA2	Noted
N4-030360	LS on CAMEL support for the Presence Service	SA2	Noted
N4-030361	LS on Requirement to allow access to IMS by means of SIM	SA3	Noted
N4-030362	SA3 response on the "Additional Release 5 work needed for Policy Control and Subscription Control of Media"	SA3	Noted
N4-030363	LS on "Support for subscriber certificates"	SA3	Noted
N4-030364	Reply LS on clarification on the requirement for UE re-authentication initiated by HSS	SA3	Noted
N4-030365	LS on: "Requirement to allow IMS access by means of SIM"	SA3	Noted
N4-030366	LS on security issues regarding multiple PDP contexts in GPRS	SA3	Noted
N4-030367	Reply LS on IPv4 and IPv6 form of Charging Gateway Address	SA5	Noted
N4-030368	Reply LS on Structure of IMS Charging Identifier (ICID)	SA5	Noted
N4-030369	LS on the Inclusion of the ECF/CCF Addresses on the 'Sh' interface	SA5	Noted
N4-030370	LS on sending the SGSN's MNC and MCC to the GGSN and service nodes	SA5	Noted
N4-030371	LS on the Introduction of Anonymous Subscribers and the Lid interface	SA2	Noted
N4-030372	Reply LS on Inter-GMLC (Lr) Interface protocol development	SA2	Noted
N4-030373	Response to LS on security issues regarding multiple PDP contexts in GPRS	SA2	Noted
N4-030374	LS on impact of 'Early UE handling' on the GERAN	GERAN	Noted
N4-030375	Answer to Liaison Statement on Core Network Provision of separate flows for P2P and P2M radio Transmission	GERAN	Noted
N4-030376	LS on SMS/MMS Interworking from WLANs	SA1	Noted
N4-030377	Clarification on MNP for Pre-paid Subscribers	SA1	Noted
N4-030378	LS on overload control function in GMLC	SA2	Noted
N4-030379	LS on Stage 3 work for Early UE handling	SA2	Noted
N4-030380	Provision of SDL diagrams in chapter 25	Vodafone	Withdrawn
N4-030381	Provision of SDL diagrams and removal of redundant text in chapter 25	Vodafone	Revised to N4-030638
N4-030382	Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone	Agreed
N4-030383	Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone	Agreed
N4-030384	Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone	Agreed
N4-030385	Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To Unsupported Feature	Vodafone	Agreed
N4-030386	Distinction between Roaming Restriction Due To Unsupported Feature and Roaming Restricted in the SGSN Due To	Vodafone	Agreed

	Unsupported Feature		
N4-030387	Provision of SDL diagrams in chapter 24A	Vodafone	Withdrawn
N4-030388	Provision of SDL diagrams in chapter 24A	Vodafone	Withdrawn
N4-030389	Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone	Revised to N4-030639
N4-030390	Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone	Revised to N4-030640
N4-030391	Provision of SDL diagrams in chapter 24B	Vodafone	Agreed
N4-030392	Provision of SDL diagrams and removal of redundant text in chapter 24B	Vodafone	Agreed
N4-030393	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Revised to N4-030654
N4-030394	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Revised to N4-030655
N4-030395	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Revised to N4-030656
N4-030396	For dialog portion what protection mode shall be used.	Hughes Software Systems	Withdrawn
N4-030397	For dialog portion what protection mode shall be used	Hughes Software Systems	Withdrawn
N4-030398	For dialog portion what protection mode shall be used	Hughes Software Systems	Withdrawn
N4-030399	MAP is not able to apply fall-back while interacting with Rel99 or earlier.	Hughes Software Systems	Rejected
N4-030400	MAP is not able to apply fall-back while interacting with Rel99 or earlier	Hughes Software Systems	Rejected
N4-030401	MAP is not able to apply fall-back while interacting with Rel99 or earlier	Hughes Software Systems	Rejected
N4-030402	Provision of SDL diagrams in chapter 24	Vodafone	Revised to N4-030430
N4-030403	Provision of SDL diagrams in chapter 24	Vodafone	Revised to N4-030431
N4-030404	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Revised to N4-030432
N4-030405	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Revised to N4-030433
N4-030406	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Revised to N4-030686
N4-030407	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Revised to N4-030687
N4-030408	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Revised to N4-030688
N4-030409	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Revised to N4-030689
N4-030410	Addition of Positioning Data IE to Provide Subscriber Location and Send Location	Nortel Networks	Revised to N4-030657

	Report		
N4-030411	Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report	Nortel Networks	Revised to N4-030658
N4-030412	Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom	Revised to N4-030627
N4-030413	Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom	Revised to N4-030628
N4-030414	Enhanced description of Sh-Pull Request and Response	Nortel Networks	Revised to N4-030629
N4-030415	Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response	Nortel Networks	Revised to N4-030622
N4-030416	A range of editorial changes and corrections and additions of references	Nortel Networks	Revised to N4-030631
N4-030417	Command code correction for UDA plus editorial corrections.	Nortel Networks	Revised to N4-030634
N4-030418	Diagnostic Information in GTP	Nortel Networks	Withdrawn
N4-030419	Termination names in Mn-interface spec (29.332)	Nortel Networks	Approved
N4-030420	Controlling compression performed on the SGSN	Vodafone	Rejected
N4-030421	Controlling compression performed on the SGSN	Vodafone	Agreed
N4-030422	Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson	Revised to N4-030664
N4-030423	Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson	Revised to N4-030665
N4-030424	Additional SGSN related Access Types - Detach	Alcatel	Revised to N4-030690
N4-030425	Additional SGSN related Access Types - Detach	Alcatel	Revised to N4-030691
N4-030426	Additional SGSN related Access Types - Detach	Alcatel	Revised to N4-030692
N4-030427	Correction to Annex C.3 – Target ID	Alcatel	Agreed
N4-030428	Correction to Annex C.3 – Target ID	Alcatel	Agreed
N4-030429	Correction to Annex C.3 – Target ID	Alcatel	Agreed
N4-030430	Provision of SDL diagrams in chapter 24	Vodafone	Withdrawn
N4-030431	Provision of SDL diagrams in chapter 24	Vodafone	Withdrawn
N4-030432	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Revised to N4-030670
N4-030433	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Revised to N4-030671
N4-030434	IN-based solution for correct charging of calls to ported or non-portable subscribers originated by pre-paid subscribers	Siemens	Revised to N4-030710
N4-030435	SRF-based solution for correct charging of calls to ported or non-portable subscribers originated by pre-paid subscribers	Siemens	Postponed
N4-030436	SRF-based solution for correct charging of calls to ported or non-portable subscribers originated by pre-paid subscribers	Siemens	Revised to N4-030446
N4-030437	SRF-based solution for correct charging of calls to ported or non-portable subscribers originated by pre-paid subscribers	Siemens	Revised to N4-030447
N4-030438	LCS Client external ID	Siemens	Agreed
N4-030439	LCS Client external ID	Siemens	Agreed

N4-030440	Release Result from CAMEL_MT_GMSC_Notify_CF	Vodafone	Agreed
N4-030441	Enhancements to the CX and Sh interfaces	Lucent, Ericsson, Nokia	Revised to N4-030603
N4-030442	Alignment of TS 29.002 with TS 23.107 regarding QoS subscribed data	Lucent	Rejected
N4-030443	Alignment of TS 29.002 with TS 23.107 regarding QoS subscribed data	Lucent	Rejected
N4-030444	Introduction of Presence Stage 3 (Px) to the Cx interface	Lucent	Postponed
N4-030445	Introduction of Presence Stage 3 (Ph) to the Sh interface	Lucent	Postponed
N4-030446	SRF-based solution for correct charging of calls to ported or non-portcd subscribers originated by pre-paycd subscribers	Siemens	Postponed
N4-030447	SRF-based solution for correct charging of calls to ported or non-portcd subscribers originated by pre-paycd subscribers	Siemens	Postponed
N4-030448	Charging Requirements in an MNP environment	Siemens	Endorsed by CN4
N4-030449	Charging Requirements in an MNP environment	Siemens	Endorsed by CN4
N4-030450	Charging Requirements in an MNP environment	Siemens	Endorsed by CN4
N4-030451	Charging Requirements in an MNP environment	Siemens	Endorsed by CN4
N4-030452	Charging Requirements for Calls and Short Messages from CAMEL pre-paycd Subscribers in an MNP Environment	Siemens	Principle approved
N4-030453	Proposed LS to SA2 on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults"	CN4 chairman	Revised to N4-030502
N4-030454	Error in S-CSCF Assignment Type	Siemens	Revised to N4-030623
N4-030455	Correct use of the Result-Code AVP	Ericsson	Agreed
N4-030456	Discrepancy between XML schema of Cx and Sh interface	Ericsson	Agreed
N4-030457	Correction on Current-Location AVP values	Ericsson	Agreed
N4-030458	Proposal of the one step HSS interrogation	NTT DoCoMo	Noted
N4-030459	HSS interrogation for SCUDIF calls	NTT DoCoMo	Postponed
N4-030460	HSS interrogation for SCUDIF calls	NTT DoCoMo	Postponed
N4-030461	Handling of partial implementation for enhanced dialled service	Samung Electronics, SK Telecom	Withdrawn
N4-030462	Enhancements of dialled services procedures in MO and MF calls	Samung Electronics, SK Telecom	Withdrawn
N4-030463	Enhancement of description for error codes for Create PDP Context response message	Vodafone	Withdrawn
N4-030464	Enhancement of description for error codes for Create PDP Context response message	Vodafone	Withdrawn
N4-030465	Provision of SDL diagrams in chapter 22	Vodafone	Withdrawn
N4-030466	Provision of SDL diagrams in chapter 22	Vodafone	Withdrawn
N4-030467	Provision of SDL diagrams and removal of redundant text in chapter 22	Vodafone	Revised to N4-030681
N4-030468	Provision of SDL diagrams and removal of redundant text in chapter 22	Vodafone	Revised to N4-030682
N4-030469	Conditionality of User-Name AVP in Server-Assignment-Answer	Nokia	Revised to N4-030624
N4-030470	Conditionality of User-Name AVP in Server-Assignment-Answer	Nokia	Agreed

N4-030471	Corrections to the base 64 encoding examples	Nokia	Revised to N4-030625
N4-030472	Deregistration of implicitly registered public user identities	Nokia	Revised to N4-030626
N4-030473	Clarification on the Server-Assignment-Type NO_ASSIGNMENT	Nokia	Agreed
N4-030474	Corrections to Sh-Pull	Nokia	Withdrawn
N4-030475	Corrections to Sh-Pull	Nokia	Withdrawn
N4-030476	Correction to the use of User-Identity	Nokia	Agreed
N4-030477	Correction to the use of User-Identity	Nokia	Agreed
N4-030478	Correction to the use of Data-Reference	Nokia	Revised to N4-030632
N4-030479	Removing reserved CKSN value in inter SGSN RAU interworking	Nokia	Withdrawn
N4-030480	Removing reserved CKSN value in inter SGSN RAU interworking	Nokia	Withdrawn
N4-030481	Removing reserved CKSN value in inter SGSN RAU interworking	Nokia	Withdrawn
N4-030482	Removing reserved CKSN value in inter SGSN RAU interworking	Nokia	Withdrawn
N4-030483	Definition of reserved TEID value	Nokia	Revised to N4-030668
N4-030484	Definition of reserved TEID value	Nokia	Revised to N4-030669
N4-030485	TS 29.332, Procedures related to a termination towards IM CN Subsystem	Nokia	Withdrawn
N4-030486	TS 29.240, TS Skeleton with Table of Contents and Introduction	Nokia	Approved
N4-030487	GUP protocol selection	Nokia	Revised to N4-030591
N4-030488	Liberty Alliance Project specifications relationship to GUP	Nokia	Noted
N4-030489	TS 29.234, TS Skeleton with Table of Contents and Introduction	Nokia	Noted
N4-030490	TS 29.234, Wr Reference Point Definition	Nokia	Approved
N4-030491	TS 29.234, Ws Reference Point Definition	Nokia	Approved
N4-030492	TS 29.234, Wx Reference Point Definition	Nokia	Approved
N4-030493	TS 29.234, Ws&Wr Procedures Signalling flows	Nokia	Approved
N4-030494	Clarification on the handling of the "Charging Information" via the Sh Interface	France Télécom	Agreed
N4-030495	Addition of LCS capability sets to MAP_SRI_for_LCS response	NEC	Revised to N4-030608
N4-030496	QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet	LM Ericsson	Agreed
N4-030497	QoS Profile Data parameter in the Quality of Service (Data) Profile IE extended with one octet	LM Ericsson	Agreed
N4-030498	IMEISV to be included in the Container within the MM Context	LM Ericsson	Agreed
N4-030499	IMEISV to be included in the Container within the MM Context	LM Ericsson	Agreed
N4-030500	Alignment of references after renumbering of H248 by ITU-T	Siemens	Revised to N4-030694
N4-030501	Inter-MSC SRNS relocation with TrFO	Siemens	Revised to N4-030617
N4-030502	Proposed LS to SA2 on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults" (Revision of N4-030453)	Vodafone	Agreed

N4-030503	Transfer of UE-specific behaviour bitmap at handover	Nokia	Revised to N4-030641
N4-030504	Transfer of UE-specific behaviour bitmap at handover	Nokia	Revised to N4-030642
N4-030505	Enhancement of the CheckIMEI operation to retrieve the BMUEF	Vodafone	Revised to N4-030646
N4-030506	Enhancement of the CheckIMEI operation to retrieve the BMUEF	Vodafone	Revised to N4-030647
N4-030507	Two-step HLR interrogation for SCUDIF calls	ERICSSON L.M.	Postponed
N4-030508	Two-step HLR interrogation for SCUDIF calls	ERICSSON L.M.	Postponed
N4-030509 N2-030267	Incorrect Charging with MNP	ERICSSON L.M.	Postponed
N4-030510	Incorrect Charging with MNP	ERICSSON L.M.	Postponed
N4-030511 N2-030266	Incorrect Charging with MNP	ERICSSON L.M.	Postponed
N4-030512 N2-030268	Using ATI for Mobile Number Portability	ERICSSON L.M.	Noted
N4-030513	Formal correction to the ASN.1 syntax of SendIdentificationRes	ERICSSON L.M.	Agreed
N4-030514 N2-030217	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	Revised to N4-030675
N4-030515 N2-030219	Correction to naming of PRN parameter	ERICSSON L.M.	Revised to N4-030613
N4-030516	Correction to naming of PRN parameter	ERICSSON L.M.	Revised to N4-030678
N4-030517	Correction to handling of LCS-LocationNotification operation	ERICSSON L.M.	Withdrawn
N4-030518	Correction on Cancel Location within a Super-Charged network	ERICSSON L.M.	Withdrawn
N4-030519	Correction on Cancel Location within a Super-Charged network	ERICSSON L.M.	Withdrawn
N4-030520	Correction on Resume Call Handling Operation	ERICSSON L.M.	Withdrawn
N4-030521	Correction on Resume Call Handling Operation	ERICSSON L.M.	Withdrawn
N4-030522	Correction on Resume Call Handling Operation	ERICSSON L.M.	Withdrawn
N4-030523	Correction on Resume Call Handling Operation	ERICSSON L.M.	Withdrawn
N4-030524	Addition of Privacy Check Related Action to Provide Subscriber Location request	Nokia	Revised to N4-030609
N4-030525	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Withdrawn
N4-030526	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Withdrawn
N4-030527	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Withdrawn
N4-030528	EM-WID – approved output from CN #19	LM Ericsson	Noted
N4-030529	OoB DTMF discussion paper	LM Ericsson	Noted
N4-030530	OoB DTMF Clarifications	LM Ericsson	Agreed
N4-030531	OoB DTMF Clarifications	LM Ericsson	Agreed
N4-030532	OoB DTMF Timing	LM Ericsson	Revised to N4-030615
N4-030533	OoB DTMF Timing	LM Ericsson	Revised to N4-030616
N4-030534	DTMF timing requirements on MGW	LM Ericsson	Agreed
N4-030535	DTMF timing requirements on MGW	LM Ericsson	Agreed
N4-030536	Proposed LS to ENFon use of E.164 number	Vodafone	Revised to N4-030619

N4-030537	PCM codec handling clarifications	LM Ericsson	Revised to N4-030697
N4-030538	PCM codec handling clarifications	LM Ericsson	Revised to N4-030700
N4-030539	DTMF Clarifications	LM Ericsson	Agreed
N4-030540	DTMF Clarifications	LM Ericsson	Agreed
N4-030541	TMR handling	LM Ericsson	Revised to N4-030698
N4-030542	TMR handling	LM Ericsson	Revised to N4-030702
N4-030543	Clarification Of luUP Initialisation during codec modification	LM Ericsson	Agreed
N4-030544	Clarification Of luUP Initialisation during codec modification	LM Ericsson	Agreed
N4-030545	Independence of SDU and Application	LM Ericsson	Agreed
N4-030546	Independence of SDU and Application	LM Ericsson	Agreed
N4-030547	LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson	Agreed
Agreed N4-030548	LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson	Agreed
N4-030549	LCS Cause Code Mappings between RANAP & BSSMAP	LM Ericsson	Agreed
N4-030550	Handling of IMS signalling information in QoS and PCO IEs at GGSN	Nokia	Withdrawn
N4-030551	Handling of IMS signalling information in QoS and PCO IEs at GGSN	Nokia	Withdrawn
N4-030552	Handling of IMS signalling information in QoS and PCO IEs at GGSN	Nokia	Withdrawn
N4-030553	Handling of IMS signalling information in QoS and PCO IEs at GGSN	Nokia	Withdrawn
N4-030554	Defining the allocation of the SV component of IMEISV	Vodafone	Revised to N4-030645
N4-030555	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Revised to N4-030652
N4-030556	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Revised to N4-030660
N4-030557	Transfer of IMEISV at handover	Nokia	Revised to N4-030648
N4-030558	Transfer of IMEISV at handover	Nokia	Revised to N4-030649
N4-030559	Handling of UE-specific behaviour data in the relay MSC	Nokia	Revised to N4-030650
N4-030560	Transfer of UE-specific behaviour data on SGSN change	Vodafone	Withdrawn
N4-030561	Transfer of UE-specific behaviour data on SGSN change	Vodafone	Withdrawn
N4-030562	Provision of SDL diagrams in chapter 19	MCC	Postponed tp CN4#20
N4-030563	Peter Schmitts; a chairman candidature	Siemens	Noted
N4-030564	Daniel Warren; a vice chairman candidature	Nortel Networks	Noted
N4-030565	Toshiyuki Tamura; a vice chairman candidature	NEC	Noted
N4-030566	Nigel Berry; a vice chairman candidature	Lucent	Noted
N4-030567	Peter Wild; a vice chairman candidature	D2 Vodafone	Noted
N4-030568	MBMS WID	3	Noted
N4-030569	MBMS TR Discussion proposal	3	Noted
N4-030570	Proposed MBMS Technical Report	3	Rejected

N4-030571	Enhanced Error Handling	3	Withdrawn
N4-030572	Enhanced Error Handling	3	Withdrawn
N4-030573	Stopping No_Answer timer in the case of forwarding notification	Ericsson	Revised to N4-030611
N4-030574	Defining the allocation of the SV component of IMEISV	3	Revised to N4-030643
N4-030575	Defining the allocation of the SV component of IMEISV	3	Revised to N4-030644
N4-030576	LS on standardised interfaces for conversion of IMEISV to "Bitmap Of UE Faults"	SA2	Noted
N4-030577	Storage of UESBI in the VLR and SGSN	Vodafone	Revised to N4-030693
N4-030578	Alignment of references after renumbering of H248 by ITU-T	Siemens	Revised to N4-030695
N4-030579	Addition of UESBI-lu to handover and relocation procedures	Nokia	Revised to N4-030659
N4-030580	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	Withdrawn
N4-030581	Information transfer at MAP-E interface during inter MSC handover/relocation	Nokia	Withdrawn
N4-030582	Template for CN4 response on overlaps/dependencies with OMA	CN4 chairman	
N4-030583	Incorrect use of result-code	HP	Revised to N4-030635
N4-030584	Correction of Sh data definition in Annex C and D.	HP	Withdrawn
N4-030585	Proposed meeting calendar of CN4; 2004	CN4 vice chairman	
N4-030586	Emergency Services Routing Based on Interim Position	T1P1	Noted
N4-030587	Signalling Requirements for IP-QOS	Study Group 11, Qs 7, 8, and 9/11	Noted
N4-030588	Reply LS on proposed deletion of security-related work items in TSG-CN	SA3	Noted
N4-030589	Security issues regarding multiple PDP contexts in GPRS	SA3	Noted
N4-030590	Adopting Cx-based protocols for several interfaces: NAF-BSF (D interface) and BSF-HSS (C interface), the interface between Authentication Proxy and HSS, and the interface between HSS and BM-SC for MBMS	SA3	Noted
N4-030591	GUP protocol selection	Nokia	Noted
N4-030592	LS on MBMS	SA2	Noted
N4-030593	LS on Stage 3 work for Early UE handling	SA2	Noted
N4-030594	Reply LS on the work on Lid interface in OMA Location WG	SA2	Noted
N4-030595	LS on missing SMS transmission via MSC	T2	Noted
N4-030596	LS on terminal MMS capability discovery prior MM notification	T2	Noted
N4-030597	Proposed LS on updated WID for emergency call enhancements for IP & PS based calls	Ericsson	Withdrawn
N4-030598	Missing SMS transmission via MSC	Siemens	Agreed
N4-030599	Missing SMS transmission via MSC	Siemens	Agreed
N4-030600	Missing SMS transmission via MSC	Siemens	Agreed
N4-030601	Missing SMS transmission via MSC	Siemens	Agreed

N4-030602	Proposed LS on terminal MMS capability discovery prior MM notification	Nokia	Revised to N4-030620
N4-030603	Enhancements to the CX and Sh interfaces	Lucent, Ericsson, Nokia, Nortel	Approved
N4-030604	Misalignment Public-User-Identity IE	Ericsson	Agreed
N4-030605	Duplicated Destination-Host AVP within MAR command mode	Ericsson	Agreed
N4-030606	Proposed LS to SA3 on adapting Cx interface protocols for security purposes	Nokia	Revised to N4-030709
N4-030607	Proposed LS on the Introduction of Anonymous Subscribers and the Lid interface	Vodafone	Approved
N4-030608	Addition of LCS capability sets to MAP_SRI_for_LCS response	NEC	Agreed
N4-030609	Addition of Privacy Check Related Action to Provide Subscriber Location request	Nokia	Agreed
N4-030610	Updated Mn Specification 29.332	Editor	Approved
N4-030611	Stopping No_Answer timer in the case of forwarding notification	Ericsson	Revised to N4-030679
N4-030612	Correction to MAP PRN and to MAP SRI	Ericsson	Revised to N4-030674
N4-030613	Correction to naming of PRN parameter	Ericsson	Revised to N4-030677
N4-030614	CN2		Noted
N4-030615	OoB DTMF Timing	LM Ericsson	Agreed
N4-030616	OoB DTMF Timing	LM Ericsson	Agreed
N4-030617	Inter-MSC SRNS relocation with TrFO	Siemens	Agreed
N4-030618	TS 29.234, TS Skeleton with Table of Contents and Introduction	Nokia	Approved
N4-030619	LS to ENFon use of E.164 number	Vodafone	Approved
N4-030620	Proposed LS on terminal MMS capability discovery prior MM notification	Nokia	Revised to N4-030716
N4-030621	REPLY LS to S2-031592 and S2-032154 on Stage 3 work for Early UE handling	RAN3	Noted
N4-030622	Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response	Nortel Networks	Revised to N4-030633
N4-030623	Error in S-CSCF Assignment Type	Siemens	Revised to N4-030718
N4-030624	Conditionality of User-Name AVP in Server-Assignment-Answer	Nokia	Agreed
N4-030625	Corrections to the base 64 encoding examples	Nokia	Agreed
N4-030626	Deregistration of implicitly registered public user identities	Nokia	Agreed
N4-030627	Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom	Agreed
N4-030628	Co-ordination of Update of Repository Data	Nortel, Ericsson, Nokia, Siemens, France Telecom	Agreed
N4-030629	Enhanced description of Sh-Pull Request and Response	Nortel Networks	Agreed
N4-030630	Proposed allocation of documents to agenda items for joint session with CN2 on CAMEL	CN4 chairman	Noted
N4-030631	A range of editorial changes and corrections and additions of references	Nortel Networks	Revised to N4-030636
N4-030632	Correction to the use of Data-Reference	Nokia	Agreed
N4-030633	Enhanced description of Sh-Notif and Sh-Notif-Subs Request and Response	Nortel Networks	Agreed
N4-030634	Command code correction for UDA plus editorial corrections.	Nortel Networks	Agreed

N4-030635	Incorrect use of result-code	HP	Agreed
N4-030636	A range of editorial changes and corrections and additions of references	Nortel Networks	Agreed
N4-030637	Removal of redundant text from 29.002 Chapter 23	Vodafone	Revised to N4-030713
N4-030638	Provision of SDL diagrams and removal of redundant text in chapter 25	Vodafone	Agreed
N4-030639	Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone	Agreed
N4-030640	Provision of SDL diagrams and removal of redundant text in chapter 24A	Vodafone	Agreed
N4-030641	Transfer of UE-specific behaviour bitmap at handover	Nokia	Approved
N4-030642	Transfer of UE-specific behaviour bitmap at handover	Nokia	Approved
N4-030643	Defining the allocation of the SV component of IMEISV	Vodafone	Rejected
N4-030644	Defining the allocation of the SV component of IMEISV	Vodafone	Rejected
N4-030645	Defining the allocation of the SV component of IMEISV	Vodafone	Revised to N4-030720
N4-030646	Enhancement of the CheckIMEI operation to retrieve the BMUEF	Vodafone	Agreed
N4-030647	Enhancement of the CheckIMEI operation to retrieve the BMUEF	Vodafone	Agreed
N4-030648	Transfer of IMEISV at handover	Nokia	Agreed
N4-030649	Transfer of IMEISV at handover	Nokia	Agreed
N4-030650	Handling of UE-specific behaviour data in the relay MSC	Nokia	Agreed
N4-030651	Handling of UE-specific behaviour data in the relay MSC	Nokia	Agreed
N4-030652	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Agreed if Bitmap solution is selected by RAN
N4-030653	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Agreed if IMEISV solution is selected by RAN
N4-030654	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Postponed
N4-030655	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Postponed
N4-030656	Judge named "MAP_Protected_dialog_PDU included" shall be renamed as "MAP_Protected_Payload included"	Hughes Software Systems	Postponed
N4-030657	Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report	Nortel Networks	Agreed
N4-030658	Addition of Positioning Data IE to Provide Subscriber Location and Send Location Report	Nortel Networks	Agreed
N4-030659	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Revised to N4-030662
N4-030660	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Agreed if Bitmap solution is selected by RAN
N4-030661	Addition of procedure to retrieve UE-specific behaviour data	Vodafone	Agreed if IMEISV solution is selected by RAN
N4-030662	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Revised to N4-030703
N4-030663	Proposed LS on Security issues regarding multiple access connections	Nortel Networks	Approved
N4-030664	Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson	Agreed

N4-030665	Enhancement of description for error codes for Create PDP Context response message	Vodafone, Nortel, LM Ericsson	Agreed
N4-030666	SCUDIF discussion paper	Vodafone	Noted
N4-030667	Discussion paper on the use of cause codes for a failure of Create PDP Context request	Vodafone	Noted
N4-030668	Definition of reserved TEID value	Nokia	Revised to N4-030704
N4-030669	Definition of reserved TEID value	Nokia	Revised to N4-030705
N4-030670	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Agreed
N4-030671	Provision of SDL diagrams and removal of redundant text in chapter 24	Vodafone	Agreed
N4-030672	Proposed LS to SA1 on Camel/SCUDIF interactions		Revised to N4-030719
N4-030673	CR 23.172 on SCUDIF		Noted
N4-030674	Correction to MAP PRN and to MAP SRI	Ericsson	Noted
N4-030675	Correction to interaction between ORLCF and forwarding notification	ERICSSON L.M.	Postponed
N4-030676	Proposed LS toSA2 on Camel support for the presence service		Approved
N4-030677	Correction to naming of PRN parameter	Ericsson	Agreed
N4-030678	Correction to naming of PRN parameter	ERICSSON L.M.	Agreed
N4-030679	Stopping No_Answer timer in the case of forwarding notification	Ericsson	Agreed
N4-030680	Proposed LS to SA1 & SA on MNP for pre-paid subscribers	Siemens	Revised to N4-030721
N4-030681	CR 29.002-606r1 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 22 (rev of 0467)	Vodafone	Agreed
N4-030682	CR 29.002-607r1 (Rel-6) on Provision of SDL diagrams and removal of redundant text in chapter 22 (rev of 0468)	Vodafone	Agreed
N4-030683	CR 29.002-634 (Rel-5) on Provision of SDL diagrams and removal of redundant text in chapter 25	Vodafone	Agreed
N4-030684	CR 29.002-635 (Rel-5) on Removal of redundant text from 29.002 Chapter 23	Vodafone	Agreed
N4-030685	Proposed LS on sending the SGSN's MNC and MCC to the GGSN and service nodes	Ericsson	Approved
N4-030686	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Agreed
N4-030687	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Agreed
N4-030688	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Agreed
N4-030689	Correction for PDP Context Response with no PDP Contexts	Nortel Networks	Agreed
N4-030690	Additional SGSN related Access Types - Detach	Alcatel	Agreed
N4-030691	Additional SGSN related Access Types - Detach	Alcatel	Agreed
N4-030692	Additional SGSN related Access Types - Detach	Alcatel	Agreed
N4-030693	Storage of UESBI in the VLR and SGSN	Vodafone	Agreed
N4-030694	Alignment of references after renumbering of H248 by ITU-T	Siemens	Agreed
N4-030695	Alignment of references after renumbering of H248 by ITU-T	Siemens	Revised to N4-030712

N4-030696	Work Plan	MCC	Noted
N4-030697	PCM codec handling clarifications	LM Ericsson	Revised to N4-030699
N4-030698	TMR handling	LM Ericsson	Revised to N4-030701
N4-030699	PCM codec handling clarifications	LM Ericsson	Agreed
N4-030700	PCM codec handling clarifications	LM Ericsson	Agreed
N4-030701	TMR handling	LM Ericsson	Agreed
N4-030702	TMR handling	LM Ericsson	Agreed
N4-030703	Addition of UESBI-Iu to handover and relocation procedures	Nokia	Endorsed by CN1
N4-030704	Definition of reserved TEID value	Nokia	Agreed
N4-030705	Definition of reserved TEID value	Nokia	Agreed
N4-030706	Correct text related to timer expiry for receipt of A-HANDOVER-COMPLETE/Iu-RELOCATION-COMPLETE	Nortel Networks	Endorsed by CN4
N4-030707	Correct text related to timer expiry for receipt of A-HANDOVER-COMPLETE/Iu-RELOCATION-COMPLETE	Nortel Networks	Endorsed by CN4
N4-030708	Correct text related to timer expiry for receipt of A-HANDOVER-COMPLETE/Iu-RELOCATION-COMPLETE	Nortel Networks	Endorsed by CN4
N4-030709	Proposed LS to SA3 on adapting Cx interface protocols for security purposes	Nokia	Revised to N4-030722
N4-030710	IN-based solution for correct charging of calls to ported or non-ported subscribers originated by pre-paid subscribers	Siemens	Agreed
N4-030711	Corrections to the base 64 encoding examples	Nokia	Agreed
N4-030712	Alignment of references after renumbering of H248 by ITU-T	Siemens	Agreed
N4-030713	Removal of redundant text from 29.002 Chapter 23	Vodafone	Agreed
N4-030714	LS on Iu UP Initialisation during RAB modification	RAN3	Noted
N4-030715	RIPPER (Reversal of Ian Park's Pedantic Editorial Rules) WID for introduction of specific cases of terminology usage and translation into divergent dialects.	EIEL	Noted
N4-030716	Proposed LS on terminal MMS capability discovery prior MM notification	Nokia	Revised to N4-030717
N4-030717	Proposed LS on terminal MMS capability discovery prior MM notification	Nokia	Approved
N4-030718	Error in S-CSCF Assignment Type	Siemens	Postponed
N4-030719	Proposed LS to SA1 on Camel/SCUDIF interactions		Approved
N4-030720	Defining the allocation of the SV component of IMEISV	Vodafone	Rejected
N4-030721	Proposed LS to SA1 & SA on MNP for pre-paid subscribers	Siemens	Approved
N4-030722	Proposed LS to SA3 on adapting Cx interface protocols for security purposes	Nokia	Email approval

Annex C: Make calls for IPRs

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective Organizational Partners of Essential IPRs they become aware of.**

The members take note that they are hereby invited:

- to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- to notify the Chairman, or the Director-General of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

Annex D: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN WG4 members should be aware of.

2.2 3GPP email lists:

To receive information about CN4 issues, all delegates and other interested parties MUST register for email list **3GPP_TSG_CN_WG4**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

```
subscribe 3GPP_TSG_CN_WG4 YourFirstName YourLastName
```

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

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

```
QUERY *
```

2.3 Email archives:

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

```
search * in 3GPP_TSG_CN_WG4 since Jan 1999
```

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

Some 3GPP archives are also available via a new user-friendly WWW interface. For CN4, go to:

http://list.3gpp.org/archives/3gpp_tsg_cn_wg4.html

2.4 Meeting calendar:

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

2.5 Documents on the server:

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

ftp://ftp.3gpp.org/TSG_CN/WG4_protocollars/tsgN4_04/Docs/

ANNEX E: Document history

Document History	
4th June 2003	<p>DRAFT v.1.0.0 dispatched to the TSG_CN4 mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. Kimmo Kymäläinen, 3GPP TSG-CN4 MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 38 E-mail: kimmo.kymalainen@etsi.org</p> <p>A deadline of a week was given to the CN4 delegates for e-mail comments on the draft report.</p> <p>E-mail comments back by 20th June 2003</p>
25th June 2003	Draft report v2.0.0 placed on the FTP server
19th May 2003	Version 2.0.0 approved at CN4#19 Meeting in San Diego, USA – Made version 3.0.0. Placed to server as the official meeting report.