3GPP TSG CN Plenary Meeting #22   **NP-030493**

17th - 19th September 2003. Frankfurt, Germany.

Source:	**CN4 Chairman**
Title:	**Status report from CN4 to TSG-CN Plenary Meeting #22**
Agenda item:	**6.1.4**
Document for:	**INFORMATION**

1 Introduction

CN4 have had one meeting since the last CN plenary meeting: CN4 #22 was held in Bangkok, Thailand, on 27 - 31 October, kindly hosted by the Japanese friends of 3GPP. We had one parallel sessions in this meeting which was chaired by the CN4 vice chairman, Toshiyuki Tamura (NEC). Kimmo Kymäläinen (MCC) was there as usual, making sure we did things properly. There were **189** documents tabled at the start of the meeting, and by the time we reached the close of the meeting the count had risen to **309**. We agreed **80** change requests, **7** output liaison statements, **2** updated work item description. There were **42** participants representing **26** companies, plus Kimmo for the MCC.

The draft meeting report of CN4 #21 was distributed to the CN4 email list; it is still under review. It is provided in Tdoc NP-030494 for information. The CN4 outgoing liaison statements are provided in Tdoc NP-030495 for information.

2 Management summary

2.1 Release 6

We agreed to update work item description on **Support for subscriber certificates**. CN1 and CN4 agreed that this work item should be a CN wide work item (NP-030511 covers also the work which needs to be done by CN1). The updated work item covers now the two interfaces for Bootstrapping: UE-BSF interface Ub and BSF-HSS interface Zh and the two interfaces for Subscriber Certificates procedures: UE-NAF interface Ua and NAF-BSF interface Zn. Ua and Ub are in the remit of CN1. Other changes to CN1 specifications due to the Generic Authentication Architecture are FFS. The final date is moved to CN#24.

We agreed to revise WID on **WLAN Interworking – stage 3 definition of WLAN – 3GPP interworking** (NP-030513). The work item covers the network selection procedure which is in the remit of CN1. The final date is moved to CN#24. CN1 has produced a revised version of the WID (NP-030490) which mentions also that 23.003 is impacted. NP-030513 should be noted and the CN1 version should be agreed.

We have received a LS from T2 which stated that T2 is discussing the issue on **identifying MMS Enabled devices and MMS Capabilities** of those devices based on IMEI. T2 had attached a proposed CR on 23.140 which describes a possible solution and have asked CN4 for comments. T2 has asked CN4 if it is possible to retrieve the IMEI from a MMSC. CN4 responded (N4-031351) that on MAP level the ATI (any time interrogation) and PSI (provide subscriber Info) which are originally defined in the context of CAMEL services can be used for retrieving the IMEI. CN4 also stated that for retrieving the IMEI the Related subscriber do not need to have a CAMEL subscription. CN4 have made some comments on the attached CR. CN4 makes no statement or recommendation on the suitability of this solution over any other possible solutions.

Mn interface protocol

We discussed to introduce a list of package in 29.332 which might be reused from H248, we agreed that the List should have the same format as the list of reused packages of H248 in 29.232.

Generic User Profile

We discussed a proposal to use specifications which are currently under development by Liberty Alliance as basis for our work. A discussion took place whether we should reference Liberty Alliance or if we just use a copy and paste of the parts we need and which we want to reuse. It was mentioned that Liberty Alliance is working on a new version of their specifications which is more appropriate to base our work on then the actual finalised version. If we are referencing the current draft of Liberty Alliance, how we can guarantee that this is inline with the final version. One proposal was to handle this in the same way as IETF and ITU drafts, which means the drafts are added as an Annex to our specification and when the final version is available the versions in the annex and the final version are compared and the specification is updated accordingly.

Additional the question was raised if the XML schema do not request to much processing in the UE. We decided that we will continue to use XML schema till we receive a requirement from SA or T that XML schemas shall not be used at the UE.

Wireless LAN interworking

We discussed the issue of Ws reference point may be RADIUS based because currently operators are using radius in there network for proprietary WLAN solution and others.

Both protocols Radius and Diameter are needed to be enhanced to full fill the requirements. IETF is working on radius to enhance the functionality. We should study what RADIUS is supporting.

It is agreed to add a table in 29.234 which shows Radius based Information Elements and when they need to be present on Wr interface.

Presence

We agreed to enhance the scope of 29.328 to cover also the interface between between presence network agent and the HSS because the Ph interface reuses the mechanism defined for Sh interface (NP-030510).

The Ph, Pc and Pg interfaces re-use some of the mechanisms defined for the MAP interface in order to do this.A CR which introduces a linkage of the Presence capability (Ph, Pc and Pg) into the Stage 3 for the MAP Interface was not agreed there should be an clear indication when which protocol is used

Diameter based protocol Issues

Discussions have started (and are to be continued by e-mail and at our next meeting) on version control mechanisms for the various Diameter based protocols (Cx, Sh, Zh, Zn, Wx,...).

HSS – CSCF (Cx) & SLF - CSCF (Dx) & HSS - SIP AS (Sh) interfaces

Various corrections for Rel-5 have been approved (see NP-030500, NP-030501, NP-030502 and NP-030518,).

CAMEL phase 4+

We agreed the CRs for enhanced dialled services for Basic call handling for basic call handling TS 23.018 and MAP TS 29.002 (NP-030515).

MBMS

We agreed a CR which introduces all needed messages for MBMS in 29.060 GTP protocol. CN 4 has agreed to slightly modify the message flow shown in the stage 2. To avoid possible timeouts by waiting for MBMS context request an immediate response to the MBMS Notification Request shall be sent, indicating that the SGSN has understood the request, and is processing the message. To cover the case of explicit reject of the network initiated MBMS context activation by the UE, or loss of radio contact with the UE, two new messages have been defined to indicate the failure of the MBMS context activation; The MBMS Notification Reject Request / MBMS Notification Reject Response. These messages now serve the purpose of the MBMS Notification Response message. Additionally, it should be noted that this procedure is also in line with the existing method for "regular" network initiated PDP context activation. CN4 has informed SA2 on this issue in LS N4-031352.

The current GTP protocol does not foresee a handling for unknown messages. Unknown (new introduced messages) are silently discarded by the receiving entity. There is no mechanism defined how a GSN can detect if the receiving entity supports a new message. Four possible solutions were discussed for introducing and detecting the support of MBMS:

- ?? Timer control, timer is started when a new message is send.
- ?? Usage of extension header
- ?? Increasing the GTP VERSION
- ?? Use of common flags

Timer control was not seen as a future proved solution, no further investigation.

The other 3 possibility are subject of detailed analysis. A decision on a solution is expected at the next meeting.

Subscriber Certificates

We have started the work on 29.109 stage 3 and agreed on a first version as basis for further work.

MAP specification

We agreed on some enhancements and improvements for MAP specification like adding a support indicator for the CAMEL4 functionality "Criteria for Change Of Position DP", adding PLMN-ID to send authentication Info request service and we agreed to add an informative annex describing the segmentation mechanism used for MAP(NP-030516).

2.2 Release 5 and earlier

Mobile Number Portability

CRs for an editorial cleanup on the SRI solution are agreed, mainly for TS 23.066 (NP-030509)

GPRS

Various corrections for Rel-5 have been approved (see NP-030497).

CAMEL4

We agreed to increase the range for possible CAMEL4 functionalities on MAP (see NP-030503).

MAP specification

We agreed one correction on MAP for release 5 (NP-030507)

Location services

SA2 has approved the Deferred MT-LR Area Event concept. The CRs (NP-030514) are providing the corresponding Stage 3 modifications adding new Area Event Request from network to mobile and Area Event Report from mobile to network and Area Event Cancellation from network to mobile. In the mean time SA2 hasagreed some changes to their specifications on this issue the realted CRs are for approval at the next plenary. These changes are not covered by the approved CRs by CN4.

HSDPA

We discussed and approved the enhancements on QoS subscription parameters related to high speed data services for MAP and GTP.

2.3 GSM

We agreed an alignment of CAMEL phase 2 in R97 and R98 between MAP, CAP and Basic call handling specification (NP-030496).

3 Questions for advice and decision

At the last plenary CN#21 a CR on 23.003 on the topic of DNS top level domains was referred back to CN4 and an LS was sent to GSMA. So we have discussed this topic in CN4 again.

CN4 has received two different requirements:

- ?? IETF requested we should use the extension .3GPPntework.org
- ?? GSMA IREG requested we should use the extension .gprs

CN4 agreed to send a LS to GSMA IREG asking them to Initiate a discussions with IETF on granting an exception for the use of ".gprs" in the case of initial IMS registrations when no ISIM is present.(LS NP-030456)

CN4 has agreed 2 sets of CRs one introducing .gprs (NP-030505) and the other introducing .3GPPnetwork.org(NP-030506).

Only one set of CRs shall be agreed by CN#22.

NP-030454 is a response of GSMA IREG on the LS send by CN#21 (NP-030440) not on the new LS send by CN4. The response of GSMA IREG on NP-030456 should be taken into account as well.

4 Change Requests

CN4 produced 80 Change Requests which are submitted for ratification. An overview of the CR packages is provided in Table 1. Corrective CRs to Release 5 and earlier were agreed as critical corrections, unless there is an indication to the contrary.

Table 1: CRs submitted by CN4 for approval at CN #22 (sorted by agenda item)

Tdoc	Agenda	Tdoc Title	WI	Release
NP-030496	7.2	CR to R97 on Work Item Camel 2	Camel2	Release 97
NP-030497	7.3	CR to Rel-4 and earlier on Work Item GPRS	GPRS	Rel-4
NP-030498	7.4	CR to Rel-4 on Work Item Location Service Enhancement	LCS1	Rel-4
NP-030499	7.11	CR to R99 on Work Item Small Technical Enhancements and Improvements	TEI	Release 99
NP-030500	8.1	CR to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface	IMS-CCR	Rel-5
NP-030501	8.1	CR to Rel-5 on Work Item IP-based multimedia services Sh-interface	IMS-CCR	Rel-5
NP-030502	8.1	CR to Rel-5 on Work Item IP-based multimedia services	IMS	Rel-5
NP-030503	8.3	CR to Rel-5 on Work Camel 4	Camel4	Rel-5
NP-030504	8.8	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5
NP-030505	8.8	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5
NP-030506	8.8	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5
NP-030507	8.8	MAP CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5

NP-030508	8.8	CR to Rel-5 on Work Item High Speed Data Packet Access	HSDPA	Rel-5
NP-030509	8.8	CR to Rel-5 on Work Item Mobile Number Portability	MNP	Rel-5
NP-030518	8.8	CR to Rel-5 on Work Item IP-based Multimedia services Cx-/Dx-interface	IMS-CCR	Rel-5
NP-030519	8.8	Corrections on GTP Enhancements Rel-5	TEI5	Rel-5
NP-030510	9.2	CR to Rel-6 on Work Item Support of Presence Capability	PRESNC	Rel-6
NP-030512	9.8	CR to Rel-6 on Work Item Multimedia Broadcast and Multicast Service	MBMS	Rel-6
NP-030514	9.19	CR to Rel-6 on Work Item Location Service Enhancements	LCS2	Rel-6
NP-030515	9.20	CR to Rel-6 on Work Item ED Camel	EDCamel	Rel-6
NP-030517	9.20	CR to Rel-6 on Work Item corrections and enhancements on TEI6	TEI6	Rel-6
NP-030516	9.20	CR to Rel-6 on Work Item small Technical Enhancements and Improvements on Rel-6 MAP	TEI6	Rel-6

4.1 Release 5 (and earlier) CRs

Corrective CRs to Release 5 and earlier are **essential corrections**, unless there is an indication to the contrary.

4.1.1 Camel 2 (NP-030496) Camel2; Release 97, 98

NP-030496 contains 2 CRs 1 CR for Rel97 and his mirror CR to R98 on CAMEL phase 2. The CR aligns CAP 03.78 and MAP 09.02 specification with basic call handling specification 03.18. These CRs are agreed by consensus.
CR 03.18; A070; rev1; MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter
CR 03.18; A071; MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter;

4.1.2 GPRS (NP-030497) Rel-4 and R99

NP-030391 contains a set of 4 corrective CRs including 7mirrors related to GPRS;

CR 29.060; 435; rev1; N4-031099; R99; Correction to imprecise reference;
CR 29.060; 475; Rel-4; Correction of incorrect reference to a withdrawn specification
CR 29.060; 476; Rel-5; Correction of incorrect reference to a withdrawn specification
CR 29.060; 477; Rel-6; Correction of incorrect reference to a withdrawn specification
This set of CRS clarifies references to 24.008 regarding the Quality of Service profile.

CR 29.060; 458; R99; Correction of Sequence Number Up handling
CR 29.060; 459; Rel-4; Correction of Sequence Number Up handling
CR 29.060; 460; Rel-5; Correction of Sequence Number Up handling
CR 29.060; 461; Rel-6; Correction of Sequence Number Up handling
Corrects the behaviour of the new SGSN, that the new SGSN shall not include sequence number field in G-PDUs of the PDP context.

CR 23.007; 009; rev1; R99; Restoration of data in RA update
CR 23.007; 010; rev1; Rel-4; Restoration of data in RA update
CR 23.007; 011; rev1; Rel-5; Restoration of data in RA update
Clarification of the handling if the MS is unknown in the SGSN in the cases of attach and routing area update. This is also to align 23.007 with 23.060.

4.1.3 Location Service Enhancement (NP-030498)

NP-030498 contains 1 CR and 2 mirrors to show the correct handling in case of positioning failure, this is also an alignment with 25.413 which already mentions the message LOCATION_DATA_FAILURE in this case.

CR 29.010; 093; Rel-4; Wrong message appears in message flow
CR 29.010; 094; Rel-5; Wrong message appears in message flow
CR 29.010; 095; Rel-6; Wrong message appears in message flow

4.1.4 Small Technical Enhancements and Improvements (NP-030499)

NP-030499 contains a CR with mirror CRs which clarifies the length of an encoded APN to ensure that the APN fits into the parameter defined in MAP. We agreed the changes from R99 onwards.

CR 23.003; 075; R99; On the length of the APN NI
CR 23.003; 076; Rel-4; On the length of the APN NI
CR 23.003; 077; Rel-5; On the length of the APN NI
CR 23.003; 078; Rel-6; On the length of the APN NI

4.1.5 IP-based multimedia services Cx-/Dx-interface (NP-030500)

NP-030500 contains a set of 9 corrective CRs including 6 mirrors.

CR 29.228; 054; rev3; Rel-5; The S-CSCF name needs to be checked always in MAR
CR 29.228; 061; rev1; Rel-6; The S-CSCF name needs to be checked always in MAR
CR 29.229; 021; rev1; Rel-5; The S-CSCF name needs to be checked always in MAR and SAR;
If Multimedia Authentication Request indicates synchronisation failure the HSS needs to check if the stored S-CSCF is identical to the one received in the message. In addition the S-CSCF name is changed from optional to mandatory.

CR 29.228; 062; Rel-5; Conditional AVPs in answer commands
CR 29.228; 063; Rel-6; Conditional AVPs in answer commands
Alignment with 29.229. Public-Identity, User-Name and SIP-Number-Auth-Items AVPs shall be present in MAA command if the Result-Code is DIAMETER_SUCCESS.

CR 29.229; 027; Rel-5; User-Authorization-Type
CR 29.228; 066; Rel-5; Determination of User-Authorization-Type AVP based on registration expiration
CR 29.228; 067; Rel-6; Determination of User-Authorization-Type AVP based on registration expiration
The determination of the User-Authorization-Type is based on the value of Expires header or on the expires parameter in Contact field in message SIP REGISTER.

CR 29.228; 064; rev1; Rel-5; Server-Assignment-Request
CR 29.228; 065; rev1; Rel-6; Server-Assignment-Request
This CR clarifies that after successful registration or re-registration, the registration state shall be set to registered at HSS.

CR 29.228; 068; rev2; Rel-5; Not registered state after deregistration with S-CSCF deleted at the HSS
CR 29.228; 069; rev2; Rel-6; Not registered state after deregistration with S-CSCF deleted at the HSS
The registration status is set to "not registered" after a Server-Assignment-Request for all kinds of deregistrations where the HSS decides to clear the S-CSCF address.

CR 29.228; 059; rev1; Rel-5; MAR in synchronisation failure case
CR 29.228; 060; rev1; Rel-6; MAR in synchronisation failure case
Authorization Information shall contain the concatenation of nonce, as sent to the terminal, and auts, as received from the terminal (this behaviour was requested by SA3). Nonce and auts shall both be binary encoded.

CR 29.228; 070; Rel-5; The extensibility of the XML schema
CR 29.228; 071; Rel-6; The extensibility of the XML schema

4.1.6 IP-based multimedia services Sh-interface (NP-030501);

NP-030501 contains a set of 2 corrective CRs related to XML Schema on Sh-interface.

CR 29.328; 038; Rel-5; XML Schema Correction

CR 29.328; 041; Rel-5; The extensibility of the XML schema

4.1.7   IP-based multimedia services (NP-030502)
NP-030502 contains a CR correcting the definition of registration status and the second corrects the table on "Overview of data used for IP Multimedia services" which shows if the data is applicable for an entity and the type of condition.

CR 23.008; 126; Rel-5; Registration status

CR 23.008; 128; rev1; Rel-5; Correct table of IMS elements

4.1.8   Camel 4 (NP-030503)
NP-030503 contains a set of 3 corrective CRs and their 2 mirrors.

CR 29.002; 685; Rel-5; More spare bits for CAMEL4 enhancements
CR 29.002; 686; Rel-6; More spare bits for CAMEL4 enhancements
For possible future enhancements the bits for CAMEL4 functionality is enhanced.

CR 29.002; 691; Rel-5; Clarification on D-CSI segmentation
CR 29.002; 692; Rel-6; Clarification on D-CSI segmentation
The description how D-CSI needs to be segmented is rephrased, no change of the content.

CR 23.079; 027; Rel-5; Correction to MAP RCH – GMSC shall check Offered CAMEL4 CSIs
A check is introduced on the supported CAMEL phases is introduced when GMSC receives MAP resume call handling.

4.1.9   Technical Enhancements and Improvements; (NP-030504)
NP-030504 contains a set of 1 corrective CR and his Rel-6 mirror on clarification related to the definition of DNS names.

CR 23.003; 080; Rel-5; Changes and corrections to DNS names
CR 23.003; 081; Rel-6; Changes and corrections to DNS names

4.1.9.1 Technical Enhancements and Improvements; (NP-030505)
NP-030505 contains a set of 1 corrective CR and his Rel-6 mirror. This CR proposes to use .gprs as top level domain name. This set of CRs will fall, if NP030506 is approved.

CR 23.003; 074; rev4; Rel-5; Changes to enable the GSMA root DNS architecture
CR 23.003; 079; rev1; Rel-6; Changes to enable the GSMA root DNS architecture

4.1.9.2 Technical Enhancements and Improvements; (NP-030506)
NP-030506 contains a set of 1 corrective CR and his Rel6 mirror. This CR proposes to use .3gppnetwork.org as top level domain name. This set of CRs will fall, if NP030505 is approved.

CR 23.003; 082; Rel-5; Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD
CR 23.003; 083; Rel-6; Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD

4.1.10   MAP Technical Enhancements and Improvements; (NP-030507)
NP-030507 contains a set of 1 corrective CR and his Rel-6 mirror.

CR 29.002; 694; rev1; Rel-5; Remove redundant option for retrieval of routeing information in figure 21.2.3
CR 29.002; 695; rev1; Rel-6; Remove redundant option for retrieval of routeing information in figure 21.2.3

4.1.11 High Speed Data Packet Access; (NP-030508); HSDPA; Rel-5

NP-030508 contains a set of 2 corrective CRs and their Rel-6 mirrors. These CRs enhances MAP and GTP protocol to support the enhanced QoS subscriptions for High speed data packet service.

CR 29.002; 688; rev2; Rel-5; HSDPA impacts to MAP
CR 29.002; 689; rev2; Rel-6; HSDPA impacts to MAP

CR 29.060; 462; rev2; Rel-5; HSDPA impacts to GTP
CR 29.060; 463; rev2; Rel-6; HSDPA impacts to GTP

4.1.12 Mobile Number Portability; (NP-030509)

NP-030509 contains a set of cleanup CRs for MNP-SRF solution related to prepaid charging. As agreed in the last plenary these CRs do not need to be essential corrections.

CR 23.066; 027; Rel-5; Incorrect implementation of CR 023r1
CR 23.066; 028; rev1; Rel-5; MNP correction for prepaid charging

CR 29.002; 675; rev2; Rel-5; MNP correction for prepaid charging
CR 29.002; 676; rev2; Rel-6; MNP correction for prepaid charging

4.1.13 Corrections on IP-based Multimedia services Cx-/Dx-interface; (NP-030518)

NP-030510 contains 3 CRs describing the condition when charging information needs to be present. It shall be present when Server-Assignment-Type in the request is equal to REGISTRATION, RE_REGISTRATION or UNREGISTERED_USER and when Result-Code is equal to DIAMETER_SUCCESS. Additionally it is described that primary charging collection function name shall be present when Charging information is included on Cx, Dx and Sh interface.

CR 29.228; 056; rev2; Rel-5; Conditions for inclusion of Charging Information
CR 29.228; 057; rev2; Rel-6; Conditions for inclusion of Charging Information

CR 29.229; 029; Rel-5; Clarification of inclusion of elements in Charging Information

CR 29.328; 042; Rel-5; Clarification of inclusion of elements in Charging Information

4.1.13 GTP Enhancements; (NP-030519)

NP-030510 contains 1 corrective CR and his Rel-6 mirror.

CR 29.060; 456; Rel-5; Removal of RAB Context IE in Forward Relocation Request
CR 29.060; 457; Rel-6; Removal of RAB Context IE in Forward Relocation Request

4.2 Release 6 CRs

4.2.1 Support of Presence Capability; (NP-030510)

This CR enhances the scope of 29.328 to cover also Ph interface.

CR 29.328; 026; rev3; Rel-6; Introduction of Presence Stage 3 (Ph) to the Sh interface

4.2.2 Multimedia Broadcast and Multicast Service; (NP-030512)

NP-030512 introduces a new chapter to 29.060 in which the new messages to support MBMS on GTP are described.
CR 29.060; 469; rev2; Rel-6; Introducing MBMS

4.2.3 Location Service Enhancement; (NP-030514)

NP-030514 contains related to the work for LCS2.

CR 29.002; 679; Rel-6; Modification of description for conditions on inclusion of Positioning Data
Positioning Data is excluded from the MAP message when positioning data received from RAN do not contain a positioning method.

CR 29.002; 680; rev2; Rel-6; Addition of CGI to LCS procedures
This CR introduces a parameter which contains the Global Cell Identifier in case of GERAN access and the Service Area Identifier in case of UTRAN access for the cell that the subscriber is currently attached to. The parameter is added in the MAP provide subscriber location and MAP subscriber location report service.

CR 29.002; 696; rev2; Rel-6; Include V-GMLC parameter in RESTORE DATA MAP message

CR 24.030; 014; rev1; Rel-6; Deferred MT-LR Area Event
CR 24.080; 031; rev2; Rel-6; Deferred MT-LR Area Event
CR 29.002; 702; rev2; Rel-6; Deferred MT-LR Area Event
These CRs are an alignment with stage 2. They are introducing the description on Area Event Request from network to mobile and Area Event Report from mobile to network and Area Event Cancellation from network to mobile. On MAP level information elements to provide area event information are introduced.

4.2.3   ED Camel; (NP-030515)
NP-030515 contains 2 collective CRs to enhanced dialled services for basic call handling and MAP.CR 23.018; 126; rev1; Rel-6; Collective CR for Rel-6 Enhanced Dialled Services

CR 29.002; 687; Rel-6; Collective CR for Rel-6 Enhanced Dialled Services

4.2.4   Corrections on small Technical Enhancements and Improvements on Rel-6 MAP; (NP-030516)
NP-030516 contains 2 CRs related to a new feature and 1 CR which introduces an informative annex.

CR 29.002; 677; Rel-6; Enhancements for the Partial Implementation for "Change of position procedure armed with criteria"
The CR assigns a bit (support indicator) for the new CAMEL4 functionality "Criteria for Change Of Position DP".

CR 29.002; 703; Rel-6; Addition of requesting PLMN-ID to Send Authentication Info Request
Requesting PLMN-ID parameter is added to send authentication Info request service to meet SA3's requirement for the special RAND mechanism.

CR 29.002; 648; rev2; Rel-6; Message Segmentation Mechanisms
Informative annex is added describing the segmentation Mechanism used for MAP.

4.2.4   Corrections on TEI6; (NP-030517)
NP-030510 contains 2 corrective CRs and 1 CR which introduces a functionality to inform a subscriber about his forced deregistration (SS Follow me).

CR 29.060; 466; Rel-6; Correction of a mis-implementation of CR 29.060-410

CR 23.008; 127; rev4; Rel-6; Services related to unregistered state

CR 23.094; 003; rev1; Rel-6; Notify of forced erasure to previously registered subscriber of his deregistration

5   Draft Technical specifications and reports

None this time.

6 Work organisation

6.1 Work Item descriptions

CN1 and CN4 agreed to have only a CN wide work item description on subscriber certificates. NP 030511 is the summary of agreed changes by CN1 and CN4 of the WID on Subscriber Certificates (SEC1-SC).

NP-030513; Updated WID on WLAN; CN1 has produced a revised version of the WID (NP-030490) which mentions also that 23.003 is impacted. NP-030513 should be noted and the CN1 version should be agreed.

6.2 Review of the work plan

The work plan was updated during the meeting. The updates should be covered in the version of the workplan which is published before CN#22.

7 CN4 meeting calendar

We have agreed to add a place holder for a possible CN4 meeting in April 2004. The complete list of meetings is shown in the table below to end of 2004.

Table 2: CN4 meeting calendar to the end of 2004

Date	Meeting	Place	Host
16 – 20 Feb. 2004	CN4#22	Atlanta; US	NA Friends of 3GPP
10 - 12 Mar 2004	CN plenary #23	Phoenix; US	NA Friends of 3GPP
12 – 16 April 2004	CN WG 4 (if needed)	?	?
10-14 May 2004	CN4#23	Zagreb, HR	EF3
2 - 4 Jun 2004	CN plenary #24	Seoul; KR	
16 – 20 August	CN4#24	Sophia Antipolis, FRANCE	ETSI
8 - 10 Sep 2004	CN plenary #25	Palm Springs; US	
15 – 19 Nov 2004	CN4#25	TBD	
08 -10 Dec 2004	CN plenary #26	Athens, GREECE	

7 Acknowledgments

I want to thank the delegates for the hard work in contributing in time and for the active and long discussions interrupted with shorter breaks then expected. I have (and it's a duty which gives me no problem at all) to thank Kimmo Kymäläinen for providing the excellent support during and between the meetings.

Finally, I would like to thank the hosts of our meeting the Japanese friends for excellent hosting.