**3GPP TSG-CN Meeting #22** **NP-030470**

**10th - 12th December. Maui, Hawaii.**

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| **Source:** | **CN1 Chairman** |
| **Title:** | **CN1 status report** |
| **Agenda item:** | **6.1.1** |
| **Document for:** | **INFORMATION** |

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## 1. EXECUTIVE SUMMARY

There has been only one CN1 meeting since the previous TSGN plenary. The Japanese friends of 3GPP hosted CN1 number 32 in Bangkok Thailand. The meeting report is in document NP-030471. That busy meeting treated 391 documents and yet we failed to break our current record of 424 in CN1 #30 in San Diego last May.

Joint sessions were held during the meeting so that some CN1 delegates could participate SA1 and SA2 discussions on emergency calls requirements and SIP messaging architecture. There was also a PoC presentation to all WGs. CN1 delegates were also invited to participate the first two days of SA3 meeting on the 6th and 7th of October 2003 to discuss IMS security issues. None of these meetings was a formal joint meeting with mandate to change CN1 specifications and the outcome is reported by the hosting working groups.

Now that also IMS part of Rel-5 has been declared frozen, CN1 is getting reasonably successful in rejecting non-essential CRs on Rel-5. Several CRs were either rejected or withdrawn or changed to Rel-6 improvements only.

This time there are 71 CRs for approval. CN1 did also send 8 liaison statements to the other groups. What makes this set of CRs very special is that the only CRs on early releases before Rel-5 are alignments of different specification versions and there are no completely new changes on these releases at all.

As usual, the documents for approval are presented by work item under each release. Category A mirror CRs have been grouped together with the corresponding category F CR.

## 2. INFORMATION TO BE NOTED

### 2.1 Meeting schedule for 2004

Due to high workload an additional CN1 #32bis meeting was agreed to be held in January 2004.

| Date | Meeting | Venue | Host |
|---|---|---|---|
| 10 – 12 December 2003 | CN #22 | Hawaii, USA | North American & Japanese Friends of 3GPP |
| 26 – 29 January 2004<br>CN1 Rel-6 meeting<br>• CRs under WG control in Rel-6 area<br>• CRs in TSGN control will be postponed to CN1 #33<br>• LSs in Rel-6 area | CN1 #32bis | Sophia Antipolis, France | ETSI |
| 16 – 20 Feb. 2004 | CN WGs 1, 2, 3 & 4 | Atlanta, USA | NA Friends of 3GPP |
| 10 - 12 Mar 2004 | CN plenary #23 | Phoenix, USA | NA Friends of 3GPP |
| 10-14 May 2004 | CN WGs 1, 2, 3 & 4 | Zagreb, Croatia | European Friends of 3GPP |
| 2 - 4 Jun 2004 | CN plenary #24 | Seoul, Korea | TTA |
| 16 – 20 August | CN WGs 1, 2, 3 & 4 | Sophia Antipolis, France | ETSI |
| 8 - 10 Sep 2004 | CN plenary #25 | Palm Springs, USA | |
| 15 – 19 Nov 2004 | CN WGs 1, 2, 3 & 4 | TBD, Asia | Japanese Friends of 3GPP |
| 08 -10 Dec 2004 | CN plenary #26 | Athens, Greece | European Friends of 3GPP |
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### 2.2 Liaison statements for information

All agreed outgoing liaison statements from CN1 to the other groups have been sent after the meeting. None of these are addressed to TSGN and so the liaison statements from CN1 in NP-030472 are provided for information for TSGN plenary.

### 2.3 Comments on the 3GPP work plan

CN1 tasks on the 3GPP work plan version dated on the 15th of October 2003 were reviewed during the meeting and several comments were made. This time we see some more CN1 tasks slipping to June 2004. All comments were documented during the meeting in a revised version of the work plan in document N1-031710 which has also been provided to MCC to update the main 3GPP work plan. This CN1 document is not distributed for the plenary since it is assumed that all changes are included in the work plan version that we see in this meeting.

## 3. ISSUES FOR ACTION/DECISION BY CN PLENARY

### 3.1 Liaison statements to TSGN plenary

There are no LSs from CN1 to TSGN plenary this time.

### 3.2 Controversial issues

No objections were raised against those versions of CRs, which are submitted for approval to TSGN #22. Some documents were postponed and these unsolved issues had to be left open at least until the next meeting.

There was a long debate on UE PLMN selection procedures and particularly the background scan and two alternative solutions were reviewed and then revised but no decision could be made yet. No documents are submitted from CN1 to this plenary on this topic.

GERAN2 sent CN1 an LS where they propose to add an indication of network support of INTER_RAT HANDOVER INFO to LOCATION UPDATE ACCEPT message. Three alternatives have been identified: Broadcast SI, RR signalling and MM signalling. It was agreed that SI does not sound tempting due to capacity reasons, but CN1 was not able to make a recommendation between RR and MM procedures, as problems were identified in the MM procedures suggested by GERAN2. An LS back to GERAN2 was drafted and reviewed but could not be agreed and therefore the chairman was tasked to explain to GERAN2 chairman and MCC expert why they do not receive any formal reply to their question. No documents are submitted from CN1 to this plenary on this topic.

In IMS area several contributions were reviewed on the handling of preconditions at session establishment. This will be allowed in Rel-6 both in the network and the UE but it could not be agreed yet what level of this support can be carried to an already frozen release. It is hoped that SA2 are able to clarify the requirements during their meeting. Also forking and the UE requirements to use SigComp for the initial message will need to be revisited in the next meeting.

After the WG meeting some comments were made on CN1 mailing list on documents N1-031616 and N1-031621 which can be found in NP-030478 and on N1-031640 in NP-030479. It is assumed that these comments, if they are still valid, are brought up during the plenary meeting by the companies that initiated the e-mail discussion on the CN1 mailing list.

# 4. DOCUMENTS FOR APPROVAL

## 4.1 R98 and older work items

### 4.1.1 TEI

The CR in NP-030474 corrects an error in MS network capability CSN coding in R98 version of 04.08. Without this CR the network cannot decode MS network capability unambiguously. The problem only occurs in R98 and therefore no mirror CRs are needed.
It was asked on the CN1 mailing list before the WG meeting whether any MS manufacturer had implemented MS network capability according to R98 specification. No problems had been flagged by the time of writing this status report.

### 4.2 R99 work items

For the first time since April 1999 CN1 (WG meeting number 3) is not proposing any R99 CRs for plenary approval.

## 4.3 Release 4 work items

### 4.3.1 GSM-UMTS interworking

The CRs in NP-030473 correct a mistake in implementation of an earlier GSM-UMTS interworking CR. The problem only occurs in Rel-4 and Rel-5 versions of 23.009. These CRs were reviewed and endorsed by CN4 during the WG meeting.

## 4.4 Release 5 work items

### 4.4.1 Provisioning of IP-based multimedia services (IMS-CCR)

Rapporteurs have checked the CRs before the plenary meeting and some interactions have been spotted. Luckily no revisions are needed this time. If all Rel-5 CRs from CN1 are approved, then a certain sequence needs to be followed when making the next reference versions. CN1 MCC expert Per Johan Jörgensen is already aware of these dependencies.

The CR criteria to change a frozen release were applied more strictly on Rel-5 IMS CRs than before.

#### 4.4.1.1 Corrections to 23.218 and 24.228

Rel-5 23.218 and 24.228 CRs for approval under WI IMS-CCR are in NP-030475.

It was discussed whether the 23.218 CR is an essential correction on a frozen release. The decision was that the text is difficult to correlate to the corresponding call flow figures without the numbering. This CR corrects a mistake in the implementation of an earlier CR.

24.228 CR N1-031638 defines the roaming scenario to mean that the P-CSCF is in the visited network. This was not seen an essential correction but the CR makes also other changes and it was agreed by consensus.

#### 4.4.1.2 Corrections to 24.229

Rel-5 24.229 CRs for approval under WI IMS-CCR are in NP-030476 to NP-030480.

NP-031476 contains changes to 3GPP SIP profile, subscription and de-registration. The IETF drafts have got a limited lifetime and therefore cannot be referenced. This makes also the reference correction CR essential.

The CR in NP-031477 was separated from the others since it depends on TSG SA decision. CN1 received an LS requesting us to make it clear also in our specifications that in case of synchronisation failure the S-CSCF will include in the request of new authentication from HSS the stored RAND, not the one it received from the UE. This has been done with the CR, which can be approved on condition that the corresponding SA3 CR S3-030616 or a later revision of it is approved in TSG SA.

The special case in NP-031478 is CR N1-031621, which does not look like a correction of a FASMO. The discussion on this proposal did prove not only a possible misunderstanding, but also that different interpretations did already exist and therefore the correction is necessary.

The mirror CR has not been forgotten, but as the Rel-6 mechanism differs from Rel-5, it is submitted as category F CR in document NP-030483 / N1-031622.

Also the ICID correction CRs in NP-030479 received a separate streams request due to dependency on TSG SA decision. This CR is proposed for approval on the condition that SA5 CR S5-034649 or a later revision of it is approved.

NP-031480 adds recommended value for reg-avait-auth timer and requests the UE to perform initial registration instead of re-registration after having been de-registered by the network.

### 4.4.2 TEI-5

Rel-5 24.008 CRs for approval under WI TEI-5 are in NP-030481. These CRs make the indication of GMSK and 8-PSK multislot power profiles mandatory as suggested by GERAN. The other 24.008 change mandates the usage of calculated or derived keys not only after CIPHERING / SECURITY MODE COMMAND but also after inter-system change.

## 4.5 Release 6 work items

### 4.5.1 Presence

Several changes on the presence TR 24.841 were seen in the last CN1 meeting. The TR was still estimated to be at least 80 % complete and therefore mature enough to be presented for approval. However, since we have two WG meetings before the next TSGN plenary, it was agreed to leave the TR in CN1 control for one more plenary period.

Since the TR is still under WG control there are no CRs for approval this time.

### 4.5.2 MBMS

This time more MBMS contributions were received after a quiet period. All agreed CRs were incorporated to the latest version of 29.846, which is considered 50 % stable and provided for information in NP-030489.

Since the TR is still under WG control there are no CRs for approval this time.

### 4.5.3 IMS Phase 2

Documents NP-030482 and NP-030483 contain 23.218 and 24.229 CRs for approval. These 24.229 CRs are related with IMS phase 2 work tasks followup of IETF development of new SIP & SDP capabilities and new SIP extensions. The 23.218 CR updates the references to charging TSs 32.200 and 32.225 to 32.240 and 32.260. This CR, if approved, triggers the creation of Rel-6 version of 23.218. Similar change is done to 24.229 also. The other 24.229 CRs are about I-CSCF handling of multiple private user identities, reference to Gq interface, editorial modifications of text for access independence, UICC being required for IMS services and P-CSCF checking of SDP parameters in the SIP requests and responses.

Additionally to the above CRs also conferencing TR 29.847 and messaging TS 24.247 were updated. There are no CRs for plenary approval on either of the two specifications, since both are still under the WG CR control.

### 4.5.4 Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3

The goal of this work item is to split 24.229 to access independent IM CN subsystem part and GPRS access related part. This has been done in CRs in NP-030484.

CN1 now considers its task on this work item almost done and the completion rate on the work plan was raised to 95%.

### 4.5.5 TEI-6

NP-030485 contains changes on ePLMN list extension, removal of the possibility to reuse L3 message type codes within one protocol and direction based on the channel (SAPI) where the message is sent on, ordering of the frequency bands in the MS RAC, clarification of teardown and TFT error procedures and source statistics descriptor and signalling flag usage in the SM layer and removal of unused acknowledged GTP mode from the QoS.

The ASCI CR on 44.068 in NP-030486 clarifies the mute and unmute procedure in the downlink direction. The two 44.065 CRs require local release of the NSAPI in case of implicit PDP context deactivation and make the ROHC MRRU parameter non-negotiable to disable ROHC segmentation which is not needed due to SNDCP segmentation.

### 4.5.6 WLAN interworking stage 3

The agreed CRs from CN1 #32 have been incorporated in the latest version of the WLAN TS 24.234, which is now considered 50% stable and forwarded to the plenary for information in NP-030491.

Since the TS is still under CN1 control there are no CRs for plenary approval.

Revised WLAN WID is provided for approval in NP-030490. The main changes are the addition of WLAN PLMN selection to CN1 tasks, discussion that led to changing the USIM impact from “no” to “don’t know” and new schedule aiming at completion in June 2004. Also the list of affected specifications, both 3GPP and IETF, has been updated and we have a new rapporteur for the work item and one more supporting company. Two revisions of the WID have been provided and it is recommended to review this CN1 version first, since it is the later one of the two. Additionally to CN4 originated changes CN1 proposes to add 23.003 to affected specifications and the impact on USIM is marked “not known” instead of “no”.

### 4.5.7 Emergency Call Enhancements for IP& PS Based Calls - stage 3

The revised IMS emergency call WID in NP-030488 changes the completion date to June 2004.

### 4.5.8 Subscriber certificates

Subscriber certificates WID is proposed in NP-030492. This revision of existing WI is intended to make it a CN-wide work item that covers CN1 and CN4 work tasks. It aims at completion in June 2004. Both working groups have reviewed this WID and CN4 have made further revisions based on this version. Outdated version in NP-030492 is replaced with next revision in NP-030511 that is submitted by CN4.

### 4.5.9 Multiple TBF in A/Gb mode

GERAN have added in Rel-6 the capability to establish multiple TBFs for a single UE. Consequently they sent an LS to CN1 asking a 24.008 CR which adds an indication of this capability to MS Radio access capability IE to be endorsed. This CR in NP-030487 was agreed in CN1 with no changes.

## 5. ACKNOWLEDGEMENTS

The chairman thanked Per for keeping the documents in order despite handling almost record breaking number of documents in a week, the delegates for their good attitude in rejecting non-essential corrections on frozen releases, Peng for being the facilitator for offline access independence work, Keith for checking the interactions of the 24.229 CRs before the plenary and the host of the WG meetings for the usual excellent meeting venue and food & drink which we all are used to expect from Japanese Friends of 3GPP.