3GPP TSG_CN Plenary #11

NP-010091

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Source:	CN1 Chairman
Title:	CN1 Status report
Agenda item:	
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CN1 status report to TSGN plenary meeting #11

1   Introduction

CN1 has had 3 meetings since TSGN plenary number 10 last December. Two regular meetings, CN1 #15 in Beijing and #16 in Sophia Antipolis. Additionally to these there was a CN1 – SA2 SIP joint meeting in New Jersey, so again the working group has visited different continents in a non-discriminatory manner. The meeting reports are provided for information in tdocs NP-010092 (Beijing), NP-010093 (Sophia Antipolis) and NP-010093 (New Jersey SIP joint meeting).

2   Executive summary

The documents for approval are presented by work item under each release.

The meetings have proved that the chairman's estimate of the stabilisation of the older releases has been somewhat premature and the number of CRs on the frozen releases up to and including R99 has been even higher than before.

No new work items are proposed this time but some of the existing Rel-4 and Rel-5 work item descriptions have been revised. There are no revolutionary changes but the WIs have been aligned with the realities which have been found out in the progress of the work.

CN1 chairman election was held during meeting CN1 #16. Hannu Hietalahti was the only candidate and he was elected for the second term without voting.

3 Information to be noted

3.1 Meeting schedule for year 2001

15.-19.Jan.2001	CN1 #15, Beijing
7.-8.Feb.2001	Joint SA1-CN1-RAN2-RAN4-GERAN1 idle mode workshop (Nokia, Helsinki/Finland)
13.-15.Feb.2001	CN1-SA2 SIP joint meeting (AT&T, New Jersey/USA
26.Feb-1.Mar. 2001	CN1 #16, CN1-2-3-4 (ETSI, Sophia Antipolis / France)
14.-16.Mar.2001	CN #11, (Palm Springs / USA)
3.-5. Apr.2001	CN1–SA2 SIP joint meeting (ETSI, Sophia Antipolis / France) 3.-4.4 joint, 5.4 CN1. (23.218 excluded?)
8.-9. May 2001	CN1 R99 and older releases ad hoc meeting, Nokia candidate host.
14.-18.May 2001	CN1 #17, CN1-2-3-4 (North American friends of 3GPP / USA)
13.-15.Jun.2001	CN #12 (Ericsson / Stockholm)
11.-12.Jul.2001	CN1 SIP ad hoc with 11.7. joint CN1-2-3-4 (Dresden, Germany / Mannessmann)
27.-31.Aug.2001	CN1 #18 (Host needed)
19.-21.Sep.2001	CN #13 (China)
15.-19.Oct.2001	CN1 #19 (BT, Vodafone, Lucent / UK)
26.-30.Nov.2001	CN1 #20 (North American friends of 3GPP / USA)
12.-14.Dec.2001	CN #14 (Japan)

3.2 Liaison statements for information

All agreed outgoing liaison statements from CN1 have been sent after each meeting. The LSs from CN1 in NP-010095 are provided for information for TSGN plenary.

4 Issues for action/decision by CN plenary

4.1 Liaison statements to TSGN plenary

The LS in NP-010025 / N1-010306 was received by CN1 and it was decided to forward it to plenary.

The first four values of TON are interpreted the same way in GSM and TIA/EIA-136 systems. SCP is seeking to harmonise the TON and NPI values between the two communities. The interpretation of the TON code point value '100' is different in these systems and SCP (Smart Card Platform) is asking whether this value is in use in GSM system and if it is likely to be used in 3G systems defined by 3GPP. The code point '100' stands for 'dedicated access, short code' both in R97 and R99.

At least one company said the TON code point '100' has been used. As the code point is being used in GSM it can not be deleted and its meaning can not be changed easily.

CN1 asks the plenary to discuss the issue and to consider a LS to SCP.

LS in NP-010012 / N1-010211 informs the plenary that CN1 has agreed a set of CRs to cover the urgent GPRS roaming problem which was discussed in TSGN #10. The correction proposed by CN1 is the introduction of "GPRS services not allowed in this PLMN" concept and a new GMM reject cause to trigger this behaviour at the MS. Additionally to CN1 CRs SA1, CN4 and GERAN2 work is needed to complete the package.

NP-010016 / N1-010492 is also for information for TSGN plenary. This LS is about the periodic high priority PLMN search which was agreed in principle in UE idle mode workshop in Helsinki in February and then developed further to detailed CRs in CN1 #16. CN1 has agreed the CRs but also noticed that stage 1 could be improved and therefore also 22.011 CR is being proposed to SA1.

4.2 Critical CRs for plenary decision

Tdoc NP-010115 contains a set of CRs on 24.008 releases from GSM phase 2 to Rel-4. User-user IE is mandatory in USER INFORMATION PDU and hence the minimum length of the IE is 2 instead of 3. For interworking and also for backwards compatibility reasons the length of this IE must be correct. Some cover page details were noticed to be incorrect in the original versions of the CRs and CN1 asked the MCC to correct these.

The CRs in tdocs NP-010116 and NP-010154 add CN1 part of the proposed WI 'ODB for the packet oriented services'. The CR was agreed in CN1 but with the request that the related Rel-4 WID should be approved first to mandate the approval of the CRs in the plenary level. WID is provided by CN4 for approval in NP-010089.

CRs in N1-010215 and N1-010223 were agreed in CN1 but R97 and R98 were separated to NP-010117 and NP-010167 which are under shared responsibility of CN1 and GERAN and therefore CN1 needs to ask GERAN to endorse the proposed CRs. The R99 mirror CR in NP-010168 / N1-010224 is completely within CN1 remit.

The background PLMN scan was agreed to be included in Rel-4 in UE idle mode workshop in February and the WGs were tasked to draft the necessary CRs. However, CN1 is proposing the feature for R99 and the related CRs are in NP-010158. As categorising this change as correction to a frozen release it can be agreed only under the working methods 'escape condition' supported by a consesus in the meeting. Even if introduction of the feature to R99 fails to get the full support of the meeting, Rel-4 CR in NP-010159 to introduce background scan of high priority PLMNs should still be agreed.

NP-010150 is a CR to introduce BSSAP+ over IP to 29.016. The CR was agreed in CN1 but it introduces a dependency to new TS 29.202 which in turn refers to IETF specification currently in draft status. CN1 asks the plenary guidance for handling this technically agreeable CR with this dependency to a non-standard document outside 3GPP area.

Tdoc NP-010156 contains a 23.009 CR on Indication of IntraMSC handover from 3G_MSC-B to MSC-A/3G_MSC-A. The CR was not agreed in CN1 #16. No technical objection was raised against the proposal but there is a related 29.002 CRs in CN4 and it was seen desirable to bind together the stage 2 from CN1 and stage 3 from CN4 in this issue. It was not possible for CN1 to find out what was the outcome of the CN4 discussion during the week of CN1 #16. The related stage 3 CRs from CN4 are N4-010429, 430, 432, 434, 435 and 436. The CRs in NP-010148 were agreed in CN1 but some delegates were concerned that the change might not be necessary and therefore these CRs are provided for plenary approval in separate package.

4.3   GSM Maintenance

4.3.1   GPRS

There is a GPRS related R97 CR with mirror CRs up to Rel-4 for approval in NP-010125.

NP-010147 is another set of R97/98 GPRS CRs for approval.

4.3.2   LCS

There is an urgent open item on MM timer T3240 which needs to be solved. Several proposed CRs have been reviewed by both GERAN and CN1 but so far there is no CR from the WG which could be proposed for approval.

Based on earlier versions of the proposal Nokia has drafted CRs NP-010099, 100, 162, 163, 164 and a discussion paper in NP-010104.

4.4   Release 99 work items

4.4.1   GSM-UMTS interworking and MM for UMTS

R99 CRs related with GSM-UMTS interworking with corresponding Rel-4 mirror CRs are provided for approval in NP-010123 and NP-010149.

4.4.2   Security

There is one R99 CR with mirror CR for approval in NP-010127. This CR clarifies the GSM only UE behaviour in authentication procedure.

NP-010155 is another pack of security related CRs for approval.

4.4.3   LCS

There is one R99 CR for approval to add the LCS indication to MS Classmark 2 in NP-010152.

4.4.4   EGPRS

There is one R99 CR for approval to correct the DTM multislot capability indication in MS CM 3. Rel-4 mirror CR is in the same tdoc NP-010146.

4.4.5   MS Classmark

There is one R99 CR for approval to correct the revision level in MS CM 3 in NP-010153. The Rel-4 mirror CR is in tdoc NP-010160.

4.4.6   TEI

There is one R99 TEI CR in NP-010126 for approval.

There are two additional R99 CRs with Rel-4 mirror CRs in NP-010129. The WI on the cover page is indicated as GPRS but as that WI did not exist for R99 then at least TEI would allow the mandate to approve these CRs which were already agreed in CN1.

NP-010157 is one more set of R99 TEI CRs for approval.

4.5 Release 4 work items

4.5.1 Work Item descriptions

NP-010136 contains a revised WI description for plenary approval. CN1 proposes to remove the callback feature from the scope of this CS based emergency call WI. If this reduction of scope is acceptable then CN1 task on the WI is completed.

4.5.2 GPRS

There is no GPRS WI for Rel-4, all GPRS related Rel-4 CRs are mirror CRs on earlier corrections.

4.5.3 Low chip rate TDD option (Feature 1222)

LCR TDD related CR is provided for approval in NP-010151.

CN1 part of the WI is complete.

4.5.4 TRFO / OoBTC (Feature 1541)

TrFO CRs are provided for approval in NP-010161.

CN1 part of the WI is complete.

4.5.5 LCS (Feature 1536)

One CR in NP-010128 is provided for approval. This CR updates the the MS CM 2 and MS network capability to support LCS.

Once the T3240 related open item is cleared then the CN1 part of the WI is complete.

4.5.6 ASCI (Feature 2230)

There are no new ASCI related CRs for approval this time.

N1-001402 which was approved in TSGN #10 had to be rejected afterwards as the CR has been based on different specification and thus can not be implemented as such on the reference specification. TSGN #10 meeting report was amended after the meeting to indicate the correct status of the CR.

The WID is not very detailed but CN1 is not aware of any missing tasks within its remit and considers CN1 part of the WI complete.

4.5.7 CS based emergency call enhancements (BB 1654)

No CRs for approval, CN1 part of the WI is complete.

4.5.8 Security (Feature 1571)

No CRs for approval, CN1 part of the WI is complete if SA3 agrees the proposal to remove UE triggered authentication.

No WID has been defined for CN1 WT, but the WT ID 2254 has been assigned for CN1 in the work plan. If SA3 agrees CN1 proposal, this task needs to be removed.

4.5.9 Service modification without prenotification (BB 1359)

There are no contributions from CN1 on this BB for Rel-4. So the WI will not be completed in Rel-4. Study on a possible Rel-5 WI is ongoing but no WID is proposed yet.

Rel-4 WI SMWOP should be removed.

4.5.10 QoS (Feature 1542)

No contributions have been received on this WI since TSGN #10.

Negotiating "Asymmetric transfer delay" and both minimum and maximum user data rates can not be done with the currently defined QoS IE.

Other than that CN1 is not aware of any outstanding tasks in this WI.

4.5.11 Evolution of transport in CN (Feature 4, CN1 WT 2257 (BSSAP))

The only CR under this WI is NP-010150 and it is proposed for approval earlier in this report under critical CRs. If NP-010150 is approved then CN1 WT is completed.

4.5.12 TEI4 (Feature 1993)

Rel-4 CR to introduce background scan of high priority PLMNs is in NP-010159. The background scan was agreed to be included in Rel-4 in UE idle mode workshop in February and the WGs were tasked to draft the necessary CRs. However, CN1 is proposing the feature for R99 and the R99 CRs in NP-010158 were treated earlier in this report under critical CRs.

More TEI4 CRs are provided for approval in NP-010124 and NP-010160 with the later one being the mirror CR of NP-010153.

4.6 Release 5

4.6.1 Work Item descriptions

NP-010137 contains a revised WI description for plenary approval. CN1 proposes to remove the callback feature from the scope of this PS based emergency call WI. The completion of the WI is strongly linked with the completion of another Rel-5 WI 'SIP call control protocol for the IM CN subsystem'

NP-010143 is a revised WI description for plenary approval. This one updates the status on the WI 'SIP call control protocol for the IM CN subsystem'.

Additionally CN1 would like to ask MCC to create TEI5 WI.

4.6.2 New SIP related specifications

As reported to the previous TSGN plenary meeting, CN1 has started three new IM and SIP specifications for Rel-5. Currently all of them, 23.218, 24.228 and 24.229 are in draft state in version 0.x.y and they were not considered to be mature enough for submission to plenary for information. CN1 intends to provide the specifications for information for TSGN #12 with the aim of promoting them to version 1.

There are still strong dependencies to the other groups outside CN1. Some of these are covered in joint meetings between CN WGs and CN1 and SA2. CN1, or more precisely, some companies participating CN1 have also taken more active role in liaising between 3GPP and IETF.

The main open items are at the moment

- Now that Public and private identities have been agreed to be needed CN1 would like to know the service requirements also

- Can 23.228 be stable enough in TSGS #11 with these questions?

- Will the necessary IETF SIP drafts stabilise as standards in time for Rel-5?

- Can CN1 proceed fast enough to meet the deadline for Rel-5, if the other groups provide the answers to the questions we are asking?

A milestone for basic IM call has been defined in the Rel-5 project plan. The definition of this milestone is somewhat vague but based on CN1 judgement on what it might comprise we have to report that the criteria for the milestone has not been met yet. There are several signalling flows already in place in the annex of 24.228 but

substantial parts of SIP protocol specification are missing from 24.229 and some basic procedures like IM registration in 24.228 are pending for SA1 and SA2 decisions on the identities.

5 Thanks!

As usual, all this could not have been achieved without the support of the whole CN1 team. And this time even that was not enough! I would like to thank Emmanuelle Wurffel and David Boswarthick from MCC for doing lots of CN1 work as an additional task despite their already very busy schedule.

Thanks to Keith Drage's and Andrew Howell's help on the meeting logistics such as tdoc allocation during the meetings we got everything done in reasonable time.

I also want to thank the delegates for their support for my second term as CN1 chairman.