3GPP TSG CN Plenary Meeting #13

Beijing, China, 19th – 21st September 2001

Tdoc NP-010441

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1 Introduction

There has been two CN1 meetings since TSGN #12. CN1 #18 was an IMS only meeting in Dresden and CN1 #19 in Helsinki covered all work items in all specification releases. The meeting reports are provided for information in tdocs NP-010442 – NP-010487.

2 Executive summary

The documents for approval are presented by work item under each release. Related category A mirror CRs have been grouped together with the initial category F CR.

It was reported in the previous status report that it is not a plenary meeting decision but the implementation which freezes the specifications. The decision to freeze R99 was made a long time ago but getting CRs approved for R99 and older releases is now getting really difficult in CN1. Out of the 18 documents under agenda item CRs on R98 and older releases just two CRs were agreed. One of these CRs is not a new change but a correction of an old CR which for some reason was not implemented correctly.

Much more CRs were raised against R99 and in this case we were not as efficient in rejecting CRs on frozen release because 10 CRs plus their mirror CRs out of 71 documents were agreed and forwarded for approval for this plenary meeting.

There has been an open issue in R99 multicall handover area and an attempt was made to solve this by voting in CN1 #19. This was not achieved but maybe we had to do it to prove ourselves that voting is not the way to write specifications.

It has been clearly seen that, as usual, abnormal procedures will be needed to complete the work on the latest specification release before scheduled freezing. One indication of this is the additional CN1 IMS meetings we have scheduled and unfortunately we also have to report a three month delay in the schedule of our deliverables.

The CN1 IMS work item description has been revised because of the new schedule and new dependencies on IETF deliverables.

3 Information to be noted

3.1 Meeting schedule for year 2001 and 2002

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.
8.-9. May 2001	CN1 R99 and older ad hoc meeting, Nokia candidate host.
14.-18.May 2001	CN1 #17, CN1-2-3-4 (North American friends of 3GPP / Puerto Rico)
13.-15.Jun.2001	CN #12 (Ericsson / Stockholm)
10.-12.Jul.2001	CN1 #18 with 11.7. joint CN1-2-3-4 (Dresden, Germany / D2 Vodafone)
27.-31.Aug.2001	CN1 #19 (Host needed)
19.-21.Sep.2001	CN #13 (China)
2.-4. Oct. 2001	CN1 #19bis Rel-5 IMS only (ETSI / Sophia Antipolis, France)
15.-19.Oct.2001	CN1 #20 (BT, Vodafone, Lucent / UK)
13.-15. Nov 2001	CN1 #20bis Rel-5 IMS only
26.-30.Nov.2001	CN1 #21 (North American friends of 3GPP / USA)
12.-14.Dec.2001	CN #14 (Japan)
14.-18. Jan. 2002	CN1 #22
6.-8. Mar. 2002	CN #15 (Korea)
8.-12. Apr. 2002	CN1 #23
13.-17. May 2002	CN1 #24
5.-7. Jun. 2002	CN #16 (?)
29. Jul. – 2. Aug. 2002	CN1 #25 (Sonera, Finland)
4.-6- Sep. 2002	CN #17 (France)
23.-27. Sep. 2002	CN1 #26
11.-15. Nov. 2002	CN1 #27
4.-6. Dec. 2002	CN #18 (New Orleans)

3.2 Liaison statements for information

All agreed outgoing liaison statements from CN1 have been sent after each meeting. The liaisons from CN1 in NP-010443 and NP-010488 are provided for information for TSGN plenary.

3.3 Comments on the 3GPP work plan

CN1 related tasks on 3GPP work plan were reviewed in detail in CN1 #19. The resulting comments have been given to MCC and implemented in the latest version of the project plan.

To summarise the comments, the schedule of the IMS related TSs has been delayed by 3 months, new IETF dependencies have been added. Old redundant work items under ID 1282 and 1805 were proposed for deletion.

4 Issues for action/decision by CN plenary

4.1 Liaison statements to TSGN plenary

Liaison Statement on "Amendments to CR on 23.153, for UMTS_AMR_2" in NP-010420 deals with the introduction of the new codec. Both 23.153 under CN4 control and 24.008 in CN1 need to be changed because of the codec negotiation. CN1 already agreed the 24.008 CR in NP-010497 (N1-011340) which is provided for approval.

CN4 agreed the related CR 23.153 CR 025 (N4-010644) in Puerto Rico meeting. Revision of the CR was discussed in CN1 but the meeting run out of time and no CN1 proposal could be drafted. The work continued after the meeting and TSGN #13 and particularly the CN4 experts are invited to look at the changes proposed in Ericsson contribution NP-010510.

All other CN1 originated LSs have been sent to the other groups and are for TSGN #13 for information only.

4.2 Critical CRs for plenary decision

4.2.1 Multicall Handover

Inter-MSC multicall handover related problem was flagged a critical issue already in the previous TSGN plenary. The CRs were forwarded back to CN1 from TSGN #11. No consensus could be reached and consequently two alternative CRs were forwarded to TSGN #12 not so much to ask for a plenary decision but hoping that the discussion outside the meeting would make it possible to drop one or the other alternative in the plenary. This did not happen and the matter was passed back to CN1.

In handover situations, particularly inter-system handover between GSM and UMTS, it may not be possible to allocate sufficient number of radio bearers for all calls that a multicall capable mobile may have. This forces some prioritization of calls and the priority handling between MSC-A and MSC-B has been discussed in two CN1 meetings with no single proposal that could be agreed by consensus.

CN1 #19 voted on the issue with the following outcome:

36 voting papers were returned
7 abstained
29 votes cast
yes 18 = 62 %
no 11 = 38 %

This exceeds the required 30% quorum.

Indicative show of hands in favour of Siemens proposal showed that it is not likely that a decision either way would be obtainable by voting because none of the proposed alternatives are unable to win 71% majority

Therefore there is still no CN1 proposal for approval. At the time of writing this report the discussion outside the meeting was still continuing.

4.2.2   GERAN originated CR on MS CM3

24.008 CR 466r1 in N1-011324 was rejected because the only substantial change it makes is defining the handling of the last unused code point in DTM GPRS Multi Slot Class field of MS CM 3 IE. The proposed change would have violated the error handling rules and so this part of the change could not be agreed. The rest of the CR was seen as 'almost editorial' and as such not acceptable on a frozen release.

However, the Rel-4 version of the CR did contain an additional change to add new field Extended DTM GPRS Multi Slot Class. Both this CR and its Rel-5 mirror CR contained the same error with the definition of 'spare' and both CRs were revised and agreed and are forwarded for approval to this meeting in tdoc NP-011498 (N1-011338).

4.2.3   GERAN originated CR on send sequence number N(SD)

CR proposing to clarify the handling of the N(SD) in N1-011327 could not be agreed because a clarification from GERAN on the intended sequence was needed. Additionally an existing paragraph in 24.007 which is covered but not changed in the CR is clearly unacceptable as this would introduce a mandatory requirement on R98 implementation in a R99 specification. Also the mirror CR was rejected.

The chairman raised the issue after the meeting in GERAN mailing list and sufficient explanations have been received to treat a revised CR in CN1 #20.

4.2.4   GERAN originated CR on Revision Level Indicator2

24.008 CR 354 contained in LS from GERAN to CN1 (N1-011068) proposed the addition of Revision Level Indicator2 to MS CM 3 and MS radio access capability IEs. Unfortunately due to the meeting schedule this CR dates back to before TSGN #12 and consequently it was based on an old reference version. It was not feasible to agree this CR in a meeting which dealt with other CRs affecting the same area in 24.008. The delegations were given several days time during CN1 #19 to update the CRs which their GERAN colleagues had initially drafted. Nobody volunteered to revise this CR and consequently it could not be agreed.

This CR prompted a discussion on the maintenance of the TSs under shared responsibility or otherwise within mutual interest of more than one group. It was decided that in case another WG is asked to approve or endorse a CR, then the originators of the CR should ensure that an up to date version of the CR is available in the meeting which receives the request. The whole point of shared responsibility of a TS is to allow both groups a chance to

review and comment on proposals. Therefore there must be a delegate who can present the proposal during the meeting and to revise it if necessary.

4.3 GSM Maintenance CRs for approval

4.3.1 GPRS

There is a R98 CR for approval in NP-010491 (N1-011268). No R97 CR and also no mirror CRs are needed because this is a correction of an already approved but incorrectly implemented CR. The other CRs in the pack are for R99 and later releases.

4.3.2 TEI

NP-010496 (N1-011281) contains one TEI related R97 CR for approval. This one is almost editorial correction putting back the references which had got lost only in this R97 version and therefore no mirror CRs are needed. The other CRs in this pack are not related with this correction.

4.4 CRs on Release 99 work items

4.4.1 GPRS (GSM-UMTS interworking and MM for UMTS)

There are two CRs with Rel-4 mirror CRs on 29.018 in tdoc NP-010491 (N1-011169, N1-011171). These reinstate already approved CRs which are included in the revision history of the TS but not implemented in the text. R98 CR in this CR pack is on a different issue and it does not need a mirror CR.

The only 04.65 CR with mirror CR is in NP-010492 (N1-011199-200)

24.008 GPRS related CRs with mirror CRs are provided for approval in NP-010493 (N1-011221, N1-011298) and in NP-010496.

NP-010494 contains 23.009 and 29.018 CRs related with WI GSM-UMTS interworking. CN4 delegates had the opportunity to see these CRs during the week of CN1-CN4 joint meeting.

4.4.2 Handover

There is a handover CR on 23.009 CRs with a Rel-4 mirror CR are in NP-010495 (N1-011228-229).

CN4 delegates had the opportunity to see these CRs during the week of CN1-CN4 joint meeting.

4.4.3 EDGE

EDGE CRs on 24.008 are contained in NP-010490 (N1-011254).

4.5   CRs on Release 4 work items

4.5.1   DTM

Addition of new 'Extended GPRS DTM Multi Slot Class' field was initiated by GERAN. The related CR in NP-010498 (N1-011338) is forwarded for approval.

4.5.2   TFO (AMR)

The 24.008 CR in NP-010497 (N1-011340) defines the CC handling of UMTS AMR 2 codec.

4.6   CRs and other documents on Release 5 work items

4.6.1   Corrections

24.008 CR in NP-010499 (N1-011303) started its life as a mirror CR of a R99 CR. After decision that the proposal is an acceptable improvement in an unfrozen release the earlier versions were dropped and this revised Rel-5 CR is the only one in that group which survived.

4.6.1   Work Item descriptions

The progress of IMS work item was reviewed in CN1 #19 and consequently the work item description has been revised. The revised WID is proposed for approval in NP-010489 (N1-011336).

The main changes are proposed new schedule due to estimated three months delay, new meetings to maximise the available meeting time that can be spent on IMS issues and the addition of new IETF dependencies which should be visible in the latest version of the 3GPP work plan.

4.6.2   IMS Technical Specifications

Draft TS 24.228, Signalling flows for the IP multimedia call control based on SIP and SDP, was submitted for TSGN #12 for information.

The intention was to provide the two other main IMS specifications from CN1, 23.218, IP Multimedia (IM) Session Handling; IP Multimedia (IM) call model, and 24.229, IP Multimedia Call Control Protocol based on SIP and SDP, for information for this meeting.

After evaluating the current status of the two specifications CN1 agreed not to forward either of these for information for the plenary. It was seen that this would have given too optimistic estimate of the progress as raising a draft TS to version 1.0.0 should mean that about 50 % of the work has been done.

Additionally, raising 24.228 to version 2.0.0 would have put it under a formal version control which was not seen feasible at this point.

Except for abnormal cases and error handling draft TS 24.228 version 1.4.0 can be currently assessed to contain the necessary flows. The main flows to define initial registration, re-registration, de-registration, session initiation and clearing exist. Both hiding and non-hiding cases are covered. There is also an agreement on the contents and usage of the most common headers. But more work is needed to align the flows to the agreed principles and to correct the errors. The TS is estimated to be 65 % ready.

24.229 is intended to define the SIP protocol by means of references to IETF SIP and the 3GPP related differences from IETF SIP. This draft TS in version 0.5.0 still contains some empty clauses with editor's notes only where the contents still needs to be added. The document is estimated to be 40 % ready and therefore not ripe for presenting in plenary for information and to promote it to version 1.0.0.

Draft TS 23.218 is stage 2 level call model document. Also this document contains several holes in its latest version 0.6.0. The estimated state of readiness at 38 % should not be considered as an absolute figure but in relation with the estimated 40 % for 24.229 it means 23.218 is less mature.

CN1 intends to bring 23.218 and 24.229 to TSGN #14 for information and all three IMS TSs for approval to TSGN #15.

5   Thanks!

Some significant achievements have been made since the June plenary but we see quite frightening workload ahead of us in CN1. Now that the autumn days are getting shorter I believe that the ligths will be on in many offices quite late in the night.

As usual things do not happen without the support of the whole organisation, both the MCC, the hosts and the delegations.

Special thanks are appropriate for CN4 chairman and those CN4 delegates who volunteered to help us solving the multicall handover issue in Helsinki meeting. That part of the meeting was not very successful but I hope there was other things CN4 could achieve during the meeting.

Usually it is appropriate to thank the delegates for their constructive comments but this time I would also like to thank for the destructive comments that have sank so many unnecessary CRs on frozen releases.