

Source: CN1 Chairman
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1 Executive summary

There have been four CN1 meetings since the previous TSGN plenary. CN1 #19bis in October and #20bis in November were limited to IMS issues whereas CN1 #19 in October and #20 in November were full WG meetings which covered all CN1 issues. The meeting reports are distributed in this meeting in documents NP-010635 - 638. Additionally phone conferences have been organised between the interested delegations to prepare contributions to the meetings.

CN1 treated 711 documents during these meetings agreeing 51 essential corrections on frozen releases and 138 CRs on Rel-5.

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.

For Rel-5 work item IMS area there are no CRs for approval to this meeting because the CN1 IMS draft TSs are not under CR control yet.

The CN1 IMS work item description has been revised because of the new schedule and new dependencies on IETF deliverables. There are also two new work item descriptions for approval, one is presence and the other is Iu-flex.

2 Information to be noted

2.1 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 #21bis Rel-5 IMS only (Phoenix, USA)
28 Jan.-1 Feb 2002	CN1 #22 (Sophia Antipolis, France)
19 – 22 Feb 2002	CN1 #22bis any outstanding Rel-5 Work Items (Oulu, Finland)
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 (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)

2.2 Liaison statements for information

All agreed outgoing liaison statements from CN1 have been sent after each meeting. The liaisons from CN1 in NP-010639 are provided for information for TSGN plenary.

2.3 Comments on the 3GPP work plan

CN1 related tasks on 3GPP work plan version 29 Nov. 2001 were reviewed in detail in CN1 #21. The resulting comments have been given to MCC. The comments can also be reviewed in CN1 #21 meeting chairman's report which is available on the 3GPP server.

3 Issues for action/decision by CN plenary

3.1 Liaison statements to TSGN plenary

This time there are no liaison statements sent from CN1 to TSGN plenary.

3.2 R98 and older work items

3.2.1 GPRS

It has been noticed during the GPRS rollout that different companies have read the specification in different ways and consequently non-compatible implementations exist on the market. GPRS network related CRs in NP-010646 clarify the LU and RAU procedure.

Handling of new vs. old TLLI is clarified in NP-010647. The P-TMSI signature handling CRs in this CR pack are a separate R99 correction.

IOV reset conditions are clarified in NP-010648. This CR pack contains also an independent R99 correction on RAU.

In many of these corrections, whether a CR does or does not require a change of implementation depends on the interpretation of the previous text by the implementor.

3.3 Release 99 work items

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

NP-010649 contains four R99 changes out of which the 24.007 CR is particularly interesting as it closes an open item raised by GERAN in one of their liaison statements to CN1. Clarification of send-sequence number N(SD) was requested by GERAN in one of their LSs CN1 received in August. This proposal triggered a study of 24.007 definition of send-sequence number handling and the CRs we see in NP-010649 cover the initial GERAN issue and several additional changes.

The equivalent PLMN concept was added late in R99 and some corrections to the related procedures are still needed to define very precisely when the MS shall delete the equivalent PLMN list. Also partial attach reject cause handling has been corrected. These warranty repairs for the equivalent PLMN list feature are in document NP-010650. The other CR in this document gives the RRC establishment causes for different NAS procedures, except for the PS-LCS which is covered in another CR to this meeting (NP-010655 for Rel-4).

3.3.2 Handover

Multicall handover was one of the issues where CN1 had difficulty to agree a single proposal from the working group. Now a solution has been elaborated and CN1 CRs were agreed on a condition that a related 22.129 CR is agreed in SA1. This did happen and so the multicall handover CRs on 23.009 in NP-010651 are forwarded for plenary approval.

3.3.3 QoS enhancements

NP-010652 is an essential correction which aligns the explanation text of transfer delay field within the QoS IE with the binary values of the code point.

3.3.4 TEI

TEI CRs are contained in NP-010653. These CRs clarify the LU procedures in SGSN.

3.4 Release 4 work items

3.4.1 LCS support in the PS domain

Document NP-010655 contains CRs which add the LCS related requests to the mapping of RRC establishment causes for CN procedures.

3.4.2 TFO (AMR)

There is one TFO related correction with a mirror CR in NP-010654.

3.4.3 TEI-4

GSM specifications need to be renumbered to 4x series for Rel-4, changing e.g. 04.08 to 44.008. This requires that the references from the outside of 04.08 must be changed. Therefore the previous TSGN plenary meeting made a decision that instead of renumbering all references to 04.08 to point to 44.008 we should change all references to 04.08 to point to the direction of either 44.018 (GERAN) or 24.008 (CN). Once this change has been done, 04.08 can be withdrawn from Rel-4 onwards.

CN1 chairman did distribute this request on the leaders mailing list and several working groups have already acknowledged the request and indicated that they have done the checking and taken appropriate actions, if any, in their groups.

Thanks to the rapporteur of 24.008 the CR in NP-010656 contains the largest part of this work in CN1. More CRs on other specifications under CN1 responsibility will be needed to complete the task and the rapporteurs promised to produce these for the next meeting. Because of this and the fact that T1 have not yet done their part in 51.010 the Rel-4 04.08 can not be withdrawn yet. But there is no link between these CRs on different TSs which would require approving them all in the same meeting.

3.5 Release 5 work items

3.5.1 Usage of TMSI in Intra Domain Connection of RAN Nodes to Multiple CN Nodes

Iu-flex CRs are in NP-010659 and with these CRs the CN1 part of the WI is complete.

3.5.2 LCS for GERAN in A/Gb mode

LCS related CRs on 24.008 and 22.064 are provided in NP-010658.

3.5.3 AMR-WB

Document NP-010657 is the call control part of WI AMR-WB.

3.5.4 Alignment of 3G functional split and Iu

GERAN originated RR layer changes are reflected in 23.009 CR in NP-010661.

3.5.5 TEI-5

Three TEI-5 CRs in NP-010660 are independent of each other. The MS CM clarification was discussed as a candidate R99 change but it was agreed that this is an improvement and clarification to the specification but not an essential correction which would be acceptable on a frozen release.

3.5.6 Work Item descriptions

Revised IMS work item description is in NP-010643. As usual it does not make any revolutionary changes in the scope of the WI but adds more information on how the project is proceeding.

New work item description in NP-010645 adds presence feature to IMS as this was not within the scope of the initial IMS WID and it appears to be large enough task to justify a WID. The work item is proposed to be a work task under CN building block ID 2503 in the main presence work item (ID 2499).

It is foreseen that in CN1 area this WI will impact mainly SIP protocol specification TS 24.229 but also with side effects on the call flows in TS 24.228 and call model TS 23.218. The work is estimated to be completed by TSGN #17 in September 2002 but the release in which it will be included is left for the CN and SA plenaries to decide.

Work item Intra Domain Connection of RAN Nodes to Multiple CN Nodes is defined in WID NP-010644. The intention is to re-use existing procedures and this is why the work item does not require any new specifications to be created. In 3GPP work plan this work item corresponds to CN1 building block with unique ID 2248. The WI should be completed in this plenary as we have got all the necessary CRs available.

3.5.7 IMS Technical Specifications for information

Draft TS 24.228, Signalling flows for the IP multimedia call control based on SIP and SDP, was submitted for TSGN #12 for information. This time we have the two other draft TSs, 23.218 titled IP Multimedia (IM) Session Handling; IP Multimedia (IM) call model, and 24.229, IP Multimedia Call Control Protocol based on SIP and SDP forwarded for information.

TS 23.218 and 24.229 are seen by CN1 as at least 50 % stable. 24.228 which was shown to TSGN plenary last summer already is estimated to be about 80 % complete but it is not yet proposed for approval. The reason is that there will be three CN1 meetings before the next plenary meeting and therefore it is better to keep the version control of 24.228 in the working group.

The intention is to provide all three CN1 IMS specifications for approval in TSGN #15 in March 2002.

All three are provided for information in the following documents: TS 23.218 version 1.0.0 in NP-010640, TS 24.228 version 1.8.0 in NP-010641 and TS 24.229 version 1.0.0 in NP-010642.

4 Acknowledgements

During this autumn there has been a CN1 IMS meeting, at least a phone conference, every second week on the average. High number of recycled proposals to consecutive meetings would be an indicator of too busy meeting schedule.

But a constant supply of fresh proposals is seen in every meeting. This is ensured by the delegates who have found new ways of proceeding the work outside the meetings and the CN1 vice chairman Andrew Howell who was able to chair part of a meeting at a short notice when the chairman had an "early" flight to catch.