3GPP TSG CN Plenary Meeting #18 **NP-020539**
4th - 6th December 2002. New Orleans, USA.

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1. EXECUTIVE SUMMARY

The two regular CN1 meetings since the previous TSGN plenary were CN1 #26 in Miami, hosted by NA friends of 3GPP and CN1 #27 in Bangkok which was hosted by Japanese friends of 3GPP. Additionally to these there was Rel-6 ad hoc meeting CN1 #26bis which was hosted by NTT DoCoMo in Munich. The meeting reports are in documents NP-020540 to NP-020542.

CN1 has been working to tie up the loose ends of Rel-5 to complete the IMS work for TSGN #18. Significant part of this effort has focused on the SIP compliancy LS which was received from IETF. All seven identified problems were studied both together and in parallel in CN1 and SA2 and some of them have been corrected with the CRs which are submitted to this plenary meeting and the reasons why the rest can not be changed in 3GPP are given an a liaison statement also destined for this plenary meeting.

Release 6 work in presence is progressing well but the other Rel-6 work items are not moving so rapidly.

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. The total number of CRs which CN1 provides for approval is 136.

2. INFORMATION TO BE NOTED

2.1 Meeting schedule for 2003

Date	Meeting	Venue	Host
10 – 14 February 2003	CN WGs (CN1 #28)	Dublin, Ireland	
12 – 14 March 2003	CN #19	Birmingham, UK	UK Friends of 3GPP
Proposal to move this one week earlier since ETSI is fully booked. The new date is 31 March – 4 April 2003 7 – 11 April 2003 19 – 23 May 2003	CN1 #29 CN WGs CN1 #30	Sophia Antipolis (tentative)	ETSI (tentative)
4 – 6 June 2003	CN #20	Hämeenlinna, FINLAND	Nokia
18 – 22 August 2003	CN WGs CN1 #31	Sophia Antipolis, France	
17 – 19 September 2003	CN #21	GERMANY	To be confirmed
27 – 31 October 2003	CN WGs CN1 #32	China	Japanese Friends of 3GPP and Ericsson China
10 – 12 December 2003	CN #22	TBD	North American & Japanese Friends of 3GPP

2.2 Liaison statements for information

All agreed outgoing liaison statements from CN1 to the other groups have been sent after the meeting. The liaison statements from CN1 in NP-020543 and NP-020544 are provided for information for TSGN plenary.

2.3 Comments on the 3GPP work plan

CN1 tasks on the 3GPP work plan were reviewed in CN1 #27. The main changes are the latest estimates on completion dates of the work items. Additionally to that presence was estimated to be 40% complete.

3. ISSUES FOR ACTION/DECISION BY CN PLENARY

3.1 Liaison statements to TSGN plenary

Liaison statement NP-020514 provides the CN1 answer to IETF LS in NP-020393 which was forwarded to CN WGs in the previous TSGN plenary. This LS was agreed in CN1 #26 after the first CN1 review of the IETF LS and because of further decisions CN1 – SA2 joint session this LS is now outdated and should be noted in this plenary meeting.

A subsequent LS including the decisions in CN1 - SA2 joint session is provided in NP-020519. This later LS together with corresponding information from SA2 should be used as the basis if the TSG plenaries see it appropriate to formally respond to the LS from IETF.

3.2 Controversial issues

3.2.1 Detecting IMS emergency calls in Rel-5

PS domain emergency calls are not supported in Rel-5 but there is a requirement for the network to detect an attempted emergency call and based on the indication from P-CSCF, for the UE to attempt CS emergency call instead. Two designs have been outlined in CN1 and after detailed analysis it has been agreed that both the download of emergency numbers from GPRS network to the UE and the P-CSCF checking whether the dialled number is an emergency number is needed to cover the problem completely. The related CRs are provided for approval separate of other CRs since Ericsson and Lucent were concerned that the emergency number download mechanism covers only PS domain and CS domain would also benefit from similar procedure.

3.2.2 IETF LS on SIP compliancy

Several changes to 3GPP usage of SIP have already been agreed in CN1 and also between CN1 and SA2 in a joint session during CN1 #27. The ones which were agreed during the WG meetings are provided for approval as part of the WG CR package. Two further issues which had to be left open during the WG meetings due to objections were explicit indication of SigComp usage and avoiding SDP manipulation at CSCF by rejecting the INVITE with 488 (Not acceptable here). The delegations which support these changes have submitted contributions to this plenary meeting in NP-020634 and NP-020635.

3.2.3 SMS over GPRS

CN1 did agree the minimum solution for Rel-5 networks to guide the UE attempting to send MO SMS in PS domain to try CS SMS instead. This indication is given in SMS relay layer RP-protocol error message using cause value #69, "Requested facility not implemented". This CR is N1-022498 in NP-020570.

This mechanism can be supported by networks in earlier releases also since the cause value is an already existing one and not specifically added for Rel-5. However, no criteria for the UE to attempt PS SMS again can be achieved with this method.

Additionally to this minimum solution CN1 discussed the possibility of explicit DL indication of either support of PS SMS or non-support of PS SMS in the serving network. Such an indication would be needed in order to allow the mobiles of later releases to actually use PS SMS efficiently. If the indication is made dynamically controlled by the network it could also be used for load balancing between PS and CS SMS but this was considered as a new feature which SA1 should study and make service requirement before the discussion can continue in CN.

3.2.4 SigComp compressor / decompressor synchronisation

The CR in NP-020567 was agreed as the backup plan in case no IETF specific mechanism for compressor restart is available at the time of TSGN #18. The CR was not challenged in CN1 but it was also seen by the originators that if IETF comes up with a good solution in time for TSGN #18 then 3GPP should adopt that instead of or additionally to the approach defined in the CR.

3.2.5 Emergency calls in IMS domain in Rel-5

Ericsson requested NP-020568 to be kept separate of the other CRs. Their concern was that it looks like the P-CSCF shall always check the request-URI (even though there may not be anything to check). Therefore the mandatory requirement to check against the emergency number list was seen problematic.

Another emergency call related CR in NP-020569 was the concern of Ericsson and Lucent since the agreed change covers only PS domain changes. There has been a lot of discussion on similar change in CS domain but that part of the change could not be agreed and it is not covered in the CR.

4. DOCUMENTS FOR APPROVAL

4.1 R98 and older work items

The interoperability testing of R99 implementations has brought up some issues on the already installed GSM phase 2 specifications and therefore CN1 has got several CRs on old GSM releases.

NP-020550 contains Multiband related R96 CRs for approval. This correction is needed because the order of the multiband support indicator bits was unintentionally reversed when the 04.08 PDU coding was changed from table format to CSN.1 notation. Luckily nobody has read the CSN notation since all existing implementations seem to be compatible. No GSM phase 2 CR is needed since multiband operation between GSM 900 and 1800 was a R96 work item. Rel-5 CR is missing from the CR pack since this change is a subset of EDGE related CR N1-021997 in NP-020570.

NP-020546 contains R97 GPRS CRs for approval. The R97 CR allows the MS to recover by performing a RAU or combined RAU in case the network fails to perform GPRS resume after having suspended it during CS connection. The requirement was already there in the procedural text but this case was not mentioned in the summary of RAU before this CR.

NP-020547 contains two changes. The GSM phase 2 CR on revision level was considered necessary as it was seen that there was not just one but two different problematic implementations in existence. The CRs now require that the network must not reject or perform a fallback to earlier version of the protocol if they meet a mobile which indicates unknown revision level.

4.2 R99 work items

4.2.1 GSM-UMTS interworking and MM for UMTS

NP-020629 clarifies he usage of the LLC SAPI by the network. There are two cat. F CRs since the R99 change differs from the corresponding Rel-4 and Rel-5 CRs.

NP-020630 contains the GSM-UMTS interworking CRs for approval. The change on 23.009 is to clarify the usage of DTAP and RANAP on the E-interface.

4.2.2 TEI

NP-020549 contains the R99 TEI CRs for approval. The 23.009 SDL correction was reviewed in a previous meeting but now also the SDL source files are included to make the CR complete. The other two sets of CRs on 23.122 and 24.008 are corrections to references.

4.2.3 Security

NP-020545 contains the security CRs for approval. This R99 CR with mirror CRs allows the two ANs to take different, access network specific approach to cell barring after the network has failed the authentication.

4.3 Release 4 work items

NP-020548 contains Rel-4 TrFO CRs for approval. This change clarifies the UE procedures at speech codec negotiation. The Rel-5 change in the same package is the 23.009 CR on codec negotiation at handover and relocation which has been debated at length in CN1 and CN4. This 23.009 CR was first reviewed and agreed by CN4 in N4-021393.

4.4 Release 5 work items

4.4.1 IMS CRs on existing CN1 specifications

NP-020551 contains the IMS related CRs on 24.008.

NP-020552 to NP-020554 contain the IMS CRs on 23.218. It should be checked during the plenary if any change related with NP-020553 is needed in CN4 and if yes, it the change available.

NP-020555 to NP-020557 contain the IMS CRs on 24.228.

NP-020558 to NP-020568 contain the IMS CRs on 24.229.

The CR in NP-020567 was kept separate even though it is not unstable technically. This is the second best solution which CN1 agreed to design in the absence of anything better solution to compressor failure. Several delegations including the originator of the CR will be following the IETF discussion before TSGN #18 and are willing to make an improved proposal if the IETF specifications allow that at the time of TSGN meeting.

4.4.2 IuFlex

NP-020571 contains one CR on 29.018 which defines the MSB and LSB in Global CN-Id IE.

4.4.3 TEI-5

NP-020569 contains one CR on 24.008.

NP-020570 contains TEI5 CRs on 23.034, 24.008, 24.011, 43.068 and 43.069.

4.4.4 Dependency to IETF drafts

The dependency of IETF specifications has been reported to previous meetings already. Several of the main dependencies are already solved but some are still not available as RFCs. The remaining dependencies are listed on 3GPP website.

4.5 Release 6 work items

4.5.1 Presence

Presence related TR 24.841 is still being maintained within the working group. Detailed call flows have been added since the previous plenary meting. The TR is not forwarded for information to TSGN #18 since CN1 #27 decided to revise the schedule of the WI and the new WID aims at completion in TSGN #20 in June 2003. Therefore it is expected that 24.841 is forwarded to the next plenary for information.

NP-020604 contains revised presence work item description for approval.

4.5.2 MBMS

There are no MBMS related documents for approval to this meeting.

4.5.3 Interoperability and Commonality between IP Multimedia Systems using different "IP connectivity Networks"; stage 3"

NP-020572 contains the revised work item description for approval.

4.5.4 IMS Stage-3 Enhancements.

5. ACKNOWLEDGEMENTS

Thanks to everybodys's efforts CN1 has now got more organised instead of the continuous panic mode. We did handle nearly 700 documents since the previous plenary meeting but this time additionally to the standardisation work which justifies our travelling we were able to enjoy both the small and the large swimming pool at Miami Beach, the BMW museum in Munich and the excellent food in Bangkok.