Source: **CN1 Chairman**

Title: **CN1 status report**

Agenda item: **6.1.1**

Document for: **INFORMATION**

1. EXECUTIVE SUMMARY

Yet again I can report that this plenary period has been keeping all active CN1 contributors very busy with more than 600 documents treated since TSGN #23 in Phoenix. The meeting reports from CN1 #33bis hosted by ETSI in Sophia Antipolis and CN1 34 hosted by European Friends of 3GPP in Zagreb, Croatia are provided for information in documents NP-040181 and NP-040182.

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

Another bis meeting has been agreed to allow more time for development of Rel-6 work items. CN1 #34bis will be hosted by Nokia in Helsinki on the 15 – 18 June 2004.

Otherwise CN1 is following CN working groups meeting schedule for the rest of 2004.

2.2 Liaison statements for information

None of the liaison statements from CN1 #33bis were destined to TSGN plenary, so NP-040183 is distributed for information.

No liaison statements were sent from CN1 #34 to TSGN plenary either, so also NP-040184 is distributed for information. However, one of these LSs, N1-041097 is related with CN1 agreed CR N1-041096 / NP-040193. This CR was technically reviewed and agreed by CN1 on condition that SA2 does not object the principle of using no preconditions and setting up PDP context for media once the SDP media negotiation has been completed to achieve interoperability with non-IMS SIP terminal. This LS is sent to SA2 but the document TSGN plenary is interested in is the SA2 reply to it that is distributed under another agenda item for received LSs to CN plenary.

2.3 Comments on the 3GPP work plan

CN1 tasks on the 3GPP work plan version dated on the 14th of April 2004 were reviewed during the meeting and several comments were made. All CN1 originated changes were documented in N1-041081, which has already been used as input for the current version.

3. ISSUES FOR ACTION/DECISION BY CN PLENARY

3.1 Liaison statements to TSGN plenary

There are no liaison statements from CN1 to TSGN plenary this time, but as stated above, the N1-041096 / NP-040193 depends on expected SA2 reply to CN1 LS N1-041097 / NP-040184.

3.2 Controversial issues

Two alternative solutions have been proposed for Interworking with non-IMS SIP. One assumes that PDP context for media is always established before the SDP media negotiation and the other one, documented in N1-041096 / NP-040193 assumes that SDP media negotiation is done first and PDP context is only reserved once the final media QoS is known. Both alternatives have their drawbacks. The guaranteed solution to the problem is preconditions which we use in IMS. But it is not mandatory for a non-IMS SIP terminal to support preconditions, and hence we need to also cope with less optimal procedure.

The CR in N1-041080 / NP-040202 should settle a long standing battle on background scan of higher priority PLMNs in VPLMN.

The opinions in the working group also differ on the use of Protocol Configuration Options IE in MBMS messages and WLAN background scan, but there is no CRs for approval to this TSGN on these topics.

4. DOCUMENTS FOR APPROVAL

4.1 R98 and older work items

There are no GSM phase 2+ CRs for approval this time.

4.2 R99 work items

The R99 CRs in NP-040185 clarify the nature of LCS based on discussion with other working groups.

NP-040186 contains two changes. One corrects the network initiated in-call modification procedure and the other corrects a reference. The later one is needed because without the CR the reference is completely meaningless and therefore the CR is not only editorial.

4.3 Release 4 work items

NP-040187 means that only PS domain services are suspended during GMM procedures and clarifies the indication of LCS support in CS and PS domain. It was agreed that the later one is an essential correction, since without the CR a misinterpretation would lead to failure of LCS procedures.

4.4 Release 5 work items

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

4.4.1.1 Corrections to 24.228

NP-040188 removes the public user identity binding to contact header at the P-CSCF, aligns 3GPP specification with recently published new IETF specification versions and complete a CR package of P-Charging-Vector. N1-041058 in this CR pack depends on the approval of N1-041099 and N1-041100 in NP-040189. Similarly, N1-040935 is valid only if also N1-040991 / NP-040189 is approved.

4.4.1.2 Corrections to 24.229

It is worth noting that this time just one CR pack comprises all Rel-5 IMS 24.229 CRs. This document NP-040189 contains change to handling of authorisation token at both P-CSCF and UE, P-Charging-Function-Addresses header procedures and protocol changes due to new published version of draft-ietf-sipping-reg-event.

4.4.2 TEI-5

NP-040190 adds GERAN Iu mode capability indicator to MS classmark 3 and MS radio access capability IE. The Rel-6 version is not marked as a mirror CR since the contents differs from this Rel-5 version. Since the structure of both IEs must be kept consistent in all releases, the corresponding Rel-6 change in N1-040985 / NP-040203 can not be approved without this Rel-5 change.

4.5 Release 6 work items

4.5.1 Presence

The presence TR 24.841 is proposed for approval in NP-040199. The WI is estimated to be 90% complete. The intention is to stop updating the TR now and start using the new TS 24.141 for presence specific issues and TS 24.229 for presence related but generic SIP issues as reference specification from now on. If the TR 24.841 can be approved, CN1 requests it to be treated as working time document which does not need to be transferred to later releases.

For this TSGN plenary meeting all presence specific material has been shifted from TR 24.841 to TS 24.141, which is considered as mature as the TR, so also the TS 24.141 is proposed for approval in NP-040200.

NP-040198 completes the move as it contains the CRs that move presence related material that is seen generic SIP requirements from TR 24.841 to TS 24.229.

4.5.2 MBMS

The MBMS work is proceeding and putting it under formal CR control was discussed but the work item was estimated to be 78% complete and CN1 expects to provide CRs for approval for the next TSGN plenary. TR 29.846 will still serve as the MBMS reference for CN1 for at least one more meeting.

4.5.3 IMS Phase 2

Group Management is estimated to be 50 % complete, conferencing 80 %, messaging 50 %, additional SIP capabilities 60 % and new SIP capabilities 35 % complete.

The progress in conferencing is reflected in NP-040194 which proposes conferencing TR 29.847 for approval. Similarily to presence TR CN1 expects not to maintain this TR any more and not to move it to later releases.

Conferencing related material was moved from TR 29.847 to TS 24.147. Document NP-040195 contains the draft TS 24.147 which is sent to TSGN for information.

The CR N1-041015 in NP-040192 completes this move by adding the more generic material to TS 24.229. The other CRs in this pack deal with registration, de-registration and session timer. There is a dependency between two CRs since both address the same table in 24.229 but due to different work items. If both are approved, then N1-041066 / NP-040198 needs to be implemented before N1-041015 from this CR pack.

NP-040193 was split to a separate CR pack, since this CR depends on the SA2 reply to CN1 LS in N1-041097.

NP-040191 addresses various issues in IMS2, such as forking, multiplexing SIP sessions in a single PDP context, PSI routing and multiple registrations of the same public user identity from more than one contact address.

IMS phase 2 work item is revised in NP-040034. The main additions are new task for end-to-end interworking with other non-IMS IP networks and more time aiming at completion in TSGN #25 in September 2004.

Messaging TS 24.247 is sent for information and the WG keeps using it as the reference specification.

There is a proposal to revise the IMS phase 2 stage 3 work item description in NP-040197. This new version of the WID starts dropping out items that are considered not possible in Rel-6 time frame. After discussion on the principle it was agreed to leave out those parts which

nobody could believe to mature in time and so we have left media policy out of the WI scope already at this stage.

4.5.4 WLAN interworking stage 3

WLAN WID identifies now two parts of the task, scenario 2 which is 78 % complete and scenario 3, of which is 40 % has been completed.

The new version of the work item description in document NP-040201 was already agreed in CN1, but it should be withdrawn in favour of a later version provided by CN4.

Since the TS 24.234 is still under CN1 control there are no CRs for plenary approval.

4.5.5 Subscriber certificates

The completion rate of the CN1 work item for subscriber certificates is estimated to be 40 % and the work is expected to be completed in September 2004. CN1 keeps the reference specification TS 24.109 in WG control for one more plenary period.

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

4.5.6 PS based emergency calls

There has been no progress on this WI.

4.5.7 Network sharing

Network sharing has been studied and the current working assumption to use RR – layer procedures to indicate the selected PLMN code to the shared network seems to mean no changes in the CN radio interface signalling messages.

But this does not guarantee no changes in CN1 specifications, which still need to be studied for possible impact.

4.5.8 TEI-6

NP-040202 is PLMN selection related, as 23.122 CRs usually are. The one in N1-041080 is particularly interesting as it is yet again an attempt to solve the background scanning requirements when roaming in VPLMN.

NP-040203 adds flexible layer one capability indication, handling of identity request with an identity that the UE does not have, PS domain follow-on proceed, ADD functionality and PCH re-organisation notification.

5. ACKNOWLEDGEMENTS

Thanks to all who have again contributed to 3GPP CN1 world tour. The amount of work we face before, during and after every meeting seems overwhelming, but at least it's never boring.

And my very best thanks for Per Johan Jörgensen from MCC, who has now prepared the documents for his last TSGN plenary, at least under the current contract. I am sure that the whole group joins me saying that it has been a pleasure to work with you and wishing you all the best for your future. You would have been welcome to stay with the group for longer. But your new job sounds so much like you, Per, that if I had to hire someone with the right skills for that work, you would be the first person I would call.