3GPP TSG-CN Meeting #23 **NP-040020**

10th - 12th March 2004, Phoenix, USA.

Source:	**CN1 Chairman**
Title:	**CN1 status report**
Agenda item:	**6.1.1**
Document for:	**INFORMATION**

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1. EXECUTIVE SUMMARY

CN1 has had a busy start for year 2004 and after two WG meetings the tdoc counter is already past 500. The two meeting reports for information in NP-040021 and NP-040022 cover CN1 #32bis hosted by ETSI in Sophia Antipolis and CN1 #33 hosted by North American friends of 3GPP in Atlanta.

CN1 #33 was co-located with the other CN groups and SA2, which offered a good chance for CN1 delegates to participate the disucssion in the other groups. Good progress was made since we got answers to many open questions.

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 #33bis will be held in Sophia Antipolis 30 March – 2 April 2004.

Date	Meeting	Venue	Host
10 – 12 December 2003	CN #22	Hawaii, USA	North American & Japanese Friends of 3GPP
26 – 29 January 2004 CN1 Rel-6 meeting ?? CRs under WG control in Rel-6 area ?? LSs in Rel-6 area ?? CRs in TSGN control will be postponed to CN1 #33	CN1 #32bis	Sophia Antipolis, France	ETSI
16 – 20 Feb. 2004	CN WGs	Atlanta, USA	NA Friends of 3GPP
10 - 12 Mar 2004	CN plenary #23	Phoenix, USA	NA Friends of 3GPP
30 March - 2 April 2004 CN1 Rel-6 meeting ?? CRs under WG control in Rel-6 area ?? LSs in Rel-6 area ?? CRs in TSGN control will be postponed to CN1 #34	CN1 #33bis	Sophia Antipolis, France	ETSI
10-14 May 2004	CN WGs	Zagreb, Croatia	European Friends of 3GPP
2 - 4 Jun 2004	CN plenary #24	Seoul, Korea	TTA
16 – 20 August	CN WGs	Sophia Antipolis, France	ETSI
8 - 10 Sep 2004	CN plenary #25	Palm Springs, USA	
15 – 19 Nov 2004	CN WGs	TBD, Asia	Japanese Friends of 3GPP
08 -10 Dec 2004	CN plenary #26	Athens, Greece	European Friends of 3GPP

2.2 Liaison statements for information

None of the liaison statements from CN1 #32bis were destined to TSGN plenary, so NP-040023 is distributed for information.

Document NP-040024 contains all LS that were sent from CN1 #33. Three of these, documents N1-040444, N1-040469 and N1-040471 are also distributed in separate documents and treated in chapter 3.1 since these are sent to TSGN plenary. Document NP-040024 is for information for the TSGN plenary.

2.3 Comments on the 3GPP work plan

CN1 tasks on the 3GPP work plan version dated on the 16th of January 2004 were reviewed during the meeting and several comments were made. This time the CN1 chairman, secretary and the work item rapporteurs had a good opportunity to participate an informal SA2 pre-review of the same work plan version and therefore the updates that have already been given to MCC should be much better in line with the changes made by SA2. Some Rel-6 work items are slipping to September 2004 but it should be noted that the completion of PS

emergency call work item was estimated to be June 2005 instead of June 2004. No contributions have been received on this WI.

3. ISSUES FOR ACTION/DECISION BY CN PLENARY

3.1 Liaison statements to TSGN plenary

There are three LSs from CN1 to TSGN plenary.

NP-040016 (N1-040444) is on two alternative CRs on background scan from CN1 to TSGN plenary for decision. This issue is covered in more detail in chapter 3.2, controversial issues.

NP-040012 (N1-040469) is about 3GPP IMS Rel-6 work relationship with OMA. CN1 has two active IMS related Rel-6 work items, presence and IMS phase 2. Messaging and group management are part of IMS2. It was also assumed that the maintenance of these Rel-6 features will continue in Rel-7. It was not considered feasible to transfer any of these features within Rel-6 time frame and since the Rel-7 requirements are not known yet, no study of the most appropriate forum for standardising them has been made.

NP-0400017 (N1-040471) contains CN1 comments to TSGN and TSGSA on ITU-T SG16 technical report on using H.323 multimedia protocol over GPRS. CN1 foresees it possible the H.323 could be run over GPRS in a transparent manner but it would be difficult to start making changes to the GPRS requirements to support H.323, years after SIP was chosen for IMS. CN and SA plenaries are requested to consider these points when answering to ITU-T SG16.

3.2 Controversial issues

No objections were raised during CN1 meetings against those versions of CRs that are submitted for approval to TSGN #23.

CN1 has been studying in several meetings the use of Radio Access Technology (RAT) in background scan of higher priority PLMN when roaming. Still no single solution could be agreed but this time it was seen that the WG is not dealing with a technical decision but the choice between the two alternatives should be made based on what is the expected correct priority of the available PLMNs in roaming situations. Therefore LS NP-040016 (N1-040444) was sent to TSGN, asking for one of the two alternative CRs to be approved. The main difference between the two alternatives is that one of them requires the UE to consider the associated RAT when determining the priority of the PLMNs, while the other one removes the use of RAT in PLMN search completely, not only in background scan. CRs documenting both solutions have been reviewed and revised several times and the latest revisions are seen to be technically correct.

One company commented after the WG meeting on the CN1 mailing list that they have a problem accepting the IMS Rel-5 CR in NP-040028 that was agreed in the WG meeting. That's why new revision of the Rel-5 CR and the mirror CR is proposed in NP-040039 and NP-040040. These later revisions are company contributions and have not been reviewed by CN1.

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 only R99 CR for approval in NP-040025 is following SA2 CR on 23.060 that was approved in December SA plenary. The CR reflects the SGSN requirement not to send PFI to a mobile that has not indicated PFC support. Also, if such a UE receives PFI indication, then it shall ignore it. Both of these requirements were made mandatory in Rel-6 and strong recommendations in the frozen releases.

4.3 Release 4 work items

There are no Rel-4 CRs for approval this time.

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

The IMS Rel-5 CRs on 24.228 call flows in NP-040026 reflect the changes in P-Charging-Function-Addresses header handling and corrections of notification used in the call flows. The title of the later CR was discussed in the meeting and it was clearly seen that the CR is essential as most of the call flows if not all of them are wrong without these changes to naming convention.

4.4.1.2 Corrections to 24.229

Rel-5 24.229 CRs for approval under WI IMS-CCR are in NP-040027 – 029.

The CRs in NP-040027 add the privacy requirements to the profile tables, correct the integrity protection requirements of UE and P-CSCF, correct the registration timer handling by the S-CSCF during network initiated re-authentication and clarifies the P-CSCF handling of Record-Route header during target refresh and subsequent request.

NP-040028 is a single CR with mirror CR dealing with the I-CSCF handling of P-Charging-Function-Addresses header. These CRs are agreed in CN1 but there is a subsequent company contribution that proposes a further revision of this in NP-040039 and NP-040040.

NP-040029 solves a contradiction in S-CSCF handling of registration and deregistration, alignment of the successful and abnormal case in authentication and moves the support of MESSAGE method from the procedural text to the profile tables.

4.4.2 TEI-5

NP-040030 clarifies the UE requirements on key handling at inter-system change.
NP-040031 corrects the terminology used on the supported codecs list in 23.009. It was discussed whether it is appropriate to bring this change back to Rel-5 and the conclusion was that the existence of two “available codec lists” justifies this correction, to distinguish between the codecs that are supported in the UE and the anchor-MSC and the other one supported by target MSC and RNC. An earlier version of this CR was sent to CN4 for endorsement but CN4 decided to revise it. This is the CN4 revision which was agreed as it is in CN1.

4.5 Release 6 work items

4.5.1 Presence

Again, more progress has been made in presence work item area. The presence TR 24.841 has been reported 80 % complete for two TSGN meetings. The transfer of the material from the TR 24.841 to (draft) TS 24.141 and

existing TS 24.229 was considered in CN1 #33. Working assumption to attempt this in the next CN1 meeting was made, but no documents to perform the transfer have been presented yet.

Since the TR is still under WG control there are no CRs for approval.

4.5.2 MBMS

The MBMS work is proceeding, but the related specifications are still in draft version. The estimated completion rate was increased from 50 % to 60 %.

Since the TR is still under WG control there are no CRs for approval this time.

4.5.3 IMS Phase 2

Specifications related with IMS phase 2 items are also maintained within the WG and that's why all CRs for approval under this work item are against TS 24.229 and 23.218. Higher completion rates are estimated for Group Management (20 %), Conferencing (75 %) and Messaging (30 %). Transfer of the Conferencing specification material from temporary TR to TS was foreseen to take place after presence, but no contributions to document how that transfer would be made have yet been seen.

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.

NP-040032 and NP-040033 contains the IMS2 CRs on 24.229 and 23.218.
The 23.218 CRs in NP-030032 deals with addition of the definition of Dh interface between the AS and SLF, forking, callerprefs, authentication and AS behaviour as back to back user agent. These CRs add new features to 24.229, such as Dh interface, AS initiated sessions on behalf of the user, forking, abnormal case in re-authentication, caller preferences and removal of duplication of P-CSCF requirement on "sec-agree" parameter in in Require and Proxy-Require headers, since the same behaviour is already specified in RFC 3329.

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

The CR in NP-040035 solves an editor's note in 24.229 on generic IP-CAN requirements. The completion rate of the work items was raised to 100 % in the work plan.

4.5.5 WLAN interworking stage 3

WLAN TS 24.234 was given to the previous TSGN plenary for information. The work is estimated to be 60 % complete.

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

4.5.6 Subscriber certificates

The completion rate of the CN1 work item for subscriber certificates is estimated to be 10 % and the work is expected to be completed in September 2004.

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

4.5.7 PS based emergency calls

SA2 put back the stage 2 completion until November 2004. To follow this, only a very minor adjustment to the CN1 schedule was made by moving the estimated completion from June 2004 to June 2005. This work item does not give good impression of our planning in 3GPP as it has been dragging on in the work plan for a long time due to lack of contributions.

4.5.8 Network sharing

There is a new work item description for approval in NP-040036. The work item description was agreed in CN1 #32bis and at that time the estimated completion time was June 2004. Later on, during CN1 #33 work plan reviews, the completion of the stage 3 in CN1 was estimated to be September 2004. This is also reflected in CN1 comments on the work plan. CN1 is the only CN WG that has got work to do in network sharing. The intention is not to create any new specifications but changes on TS 23.122 and TS 24.008 will be needed.

4.5.9 TEI-6

The 23.122 CRs in NP-040037 conclude the discussion between CN1 and RAN2 on the definition of UE idle mode and make it optional for the UE to use HPLMN with access technology field to optimise the HPLMN search.

The 24.008 CRs in NP-040038 allow the UE to delay LU in case it is redirected to another LA during emergency call setup, clarify the meaning of SMS support indication bits in PS and CS domain, add a new reject cause for SGSN to tell that the PDP context can not be activated due to APN conflict, clarify which PDP contexts are impacted by a teardown, clarify that no indication of PFI does not delete a PFI value if one exists, clarifies the UE LU / RAU requirements in case of directed signalling connection re-establishment, mandate the UE to keep the P-TMSI signature at network initiated detach and delay the network initiated IMSI detach until the ongoing call ends.

5. ACKNOWLEDGEMENTS

The delegates, hosts and the MCC again gave their usual good support for the meetings and this time I would like to extend my thanks also to the outside of CN1. It was very useful to have the opportunity for CN1 delegates to participate the sessions in SA2, CN3 and CN4 to solve the questions and open items on Rel-6 work items.

Thanks to Magnus Olsson for inviting CN1 chairman, MCC expert and Rel-6 work item rapporteurs to SA2 work plan review session that gave us very good basis for our own review of CN1 work items the day after.