3GPP TSG CN Plenary Meeting #19   **NP-030006**
Birmingham, UK, 12th – 14th March 2002

Source:	**CN4 Chairman**
Title:	**Status report from CN4 to TSG-CN Plenary Meeting #19**
Agenda item:	**6.4.1**
Document for:	**INFORMATION**

1   Introduction

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CN4 have had one meeting since the last CN plenary meeting: CN4 #18 was held in Dublin, Eire, on 10 – 14 February, kindly hosted by the European Friends of 3GPP. This time the CN4 chairman had to change hats in public to welcome us on behalf of the hosts. We avoided parallel sessions, at the cost of three evening sessions and some postponed documents, so one vice-chairman, Peter Schmitt (Siemens), was able to concentrate on representing his company (your time will come, Peter…); unfortunately the other vice chairman, Toshiyuki Tamura (NEC), was not able to join us. Kimmo Kymäläinen (MCC) was there as usual, making sure we did things properly; **he** didn't get flustered... The contributors were very active; give or take a few withdrawals, there were **323** documents tabled – Kimmo advised me that this is a record for CN4. We agreed **82** change requests, **10** output liaison statements and **2** updated work item descriptions; this was supplemented by **8** more CRs approved by email correspondence after the meeting. Unfortunately we had to postpone **22** documents because of lack of time; CN4 will have to consider seriously whether the next meeting should plan for parallel sessions, to allow us to avoid postponing so many documents. There were **42** participants representing **29** companies, plus Kimmo for the MCC.

The draft meeting report of CN4 #18 was distributed to the CN4 email list; it is still under review. It is provided in Tdoc NP-030093 for information. The CN4 outgoing liaison statements are provided in Tdoc NP-030094 for information.

2   Management summary

2.1   Release 6

Location services for Release 6 have triggered a small number of changes to the MAP and GTP specifications; however the main protocol development work for the Lpp and Lr interfaces is being done in the OMA Location Working Group. There has been an exchange of liaison statements between SA2 and OMA LWG; these indicate that the protocol development work has hit some snags, and the development timescale is under review in OMA LWG. One of the contentious issues is the possible use of the WAP protocol for location based services; this has caused serious concerns for the operator community over privacy. As a result, it has been agreed that the first Location Enabler Release from OMA will **not** include WAP protocols for location based services.

CN #18 approved a WID for the development of the protocol on the Ze interface, to support the automatic distribution of security keys and security policies for MAP application level security. Unfortunately, Nokia had to withdraw from the rapporteurship of the draft protocol specification, and none of the other companies who had indicated their support for the work item was prepared to take over. In view of the low level of interest, CN4 #18 decided to put the question to CN #19: **should the work item for the protocol for the Ze interface be deleted**?

At CN4 #17, we decided to carry out a thorough review of the requirements for the **Preferred Framing Protocol**. However the exercise of gathering information about the requirements revealed a low level of interest; only three companies (Ericsson, Siemens and Vodafone) responded to the request to rank the requirements. In view of the low level of interest, CN4 #18 decided to put the question to CN #19: **should the work item for the Preferred Framing Protocol be deleted**?

We agreed with CN3 a work split for the **Mn interface protocol** (Media Gateway Controller – IM Media Gateway): CN3 will take responsibility for the stage 2 specification (TS 29.163), and CN4 will take responsibility for the stage 3 specification (TS 29.332). We have agreed an outline of the draft TS 29.332 as the basis for further work.

SA1 accepted the recommendations from CN #18, that the invocation of **SS barring of SMS in the PS domain** should be specified as an enhancement for Release 6, and that SS control procedures using the SGSN as a relay between the UE and the HLR should not be specified. Based on this decision, we agreed the necessary change requests to CN4 specifications. A linked change request to 23.060 was agreed in SA2, and will be presented to SA #19 for approval.

We agreed in principle that CN4 should develop the core network protocol needed to support the **Generic User Profile** feature; however the stage 1 and stage 2 specifications are not yet mature enough to start work on the stage 3. We estimate that CN4 will need 6 months after a stable stage 2 is available to do the work on the stage 3.

We agreed a Work Item Description for the development of core network protocols to support **Wireless LAN interworking**. Again, the protocol work depends on the availability of a stable stage 2; the expected date for the approval of the stage 2 is June 2003, which leads to a target date of December 2003 for the approval of the protocol specification.

2.2 Release 5

There was a large number of corrections to the **protocol specifications for the Cx/Dx and Sh interfaces**, including a resolution of the open issue on the subscribed media; this can be attributed (at least partly) to the assumption that this will be the last chance to submit "nice to have" corrections against Release 5 specifications! One open issue which remains is the concern with ensuring that application servers have up-to-date copies of shared data stored in the HSS. One proposal was discussed, but not accepted; a counter-proposal was submitted late in the meeting, so both proposals were postponed for further review and discussion in the next CN4 meeting.

We agreed a small number of corrections to **GPRS for Release 5**, mostly to align with the requirements of the GTP' protocol which is used for GPRS charging.

We agreed two corrections to TS 29.002 (with Rel-6 mirrors) for **Release 5 Location Services**.

Mobile Number Portability is a topic which has triggered a lot of debate during the last two CN4 meetings. The specific call case for which the changes were proposed is discrimination between the charge for "on-net" (i.e. to a subscriber who is a subscriber of the serving PLMN of the calling subscriber) and the charge for "off-net" (i.e. to a subscriber who is not a subscriber of the serving PLMN of the calling subscriber) calls for subscribers who use CAMEL-based pre-payment services in an MNP environment. We decided to ask SA1 for guidance on whether they see this as something which needs to be specified as a **correction** for Release 5 or an **enhancement** for Release 6.

Triggered by the work on the SMS procedures chapter of the MAP specification for SS barring of SMS in the PS domain, we decided to **clean up the whole SMS procedures chapter**. This was more than an editorial clean-up, so it is proposed as a category F CR for Release 5, with a mirror to Release 6. CN can expect similar clean-up on other chapters in the future!

2.3 Release 99/Release 4

We learned the hard way that re-use of a protocol for another purpose needs care; SA5 told us that a GTP cause code which is no longer required for **GTP** (and which was therefore deleted) is still used in the **charging gateway protocol (GTP')**. We reinstated the cause code in the GTP specification, and added a warning note for the future about the need for care when considering the deletion of definitions from 29.060.

Another consequence of the work on the SS barring of SMS in the PS domain was a correction to the **interaction between CAMEL Phase 3 control of MO SMS and barring**. This required linked CRs to the CAMEL stage 2 (23.078), and the MAP specification (TS 29.002). The MAP change requests were postponed for email correspondence approval by CN4; unfortunately there were comments on the version which was distributed for correspondence approval, and it was not possible to allow a proper review period and respect the deadline for submission of documents to CN #19. The formal position is that the CN4 CRs were rejected; revised versions, to take account of the comments which were received, are submitted in a company contribution to CN #19. The

original source company, Vodafone, has been joined by the two companies who raised comments during the correspondence approval process, and the version submitted by Vodafone, Lucent Technologies and L M Ericsson has been distributed to the CN2 and CN4 email lists without attracting any objections. The CN2 chairman has evidently learned some procedural lessons from the CN4 chairman; although the changes to TS 23.078 were technically acceptable to CN2, CN2 decided to set a condition for the approval in CN2: that the linked CRs to TS 29.002 were approved **in CN4**. Since the linked CRs to TS 29.002 were **not** approved in CN4, the CRs to TS 23.078 were not approved in CN2, and the whole set of 7 CRs (TS 23.078 R99, Rel-4 & Rel-5 and TS 29.002 R99, Rel-4, Rel-5 & Rel-6) is submitted in a company contribution, source Vodafone, Lucent Technologies and L M Ericsson, in NP-030068.

A further set of corrective CRs to TS 23.018 on the handling of **Any Time Interrogation for CAMEL phase 3** is a remedy for the incorrect implementation of a previously agreed CR.

We agreed one CR to Release 4 (with a mirror for Release 5) to the stage 2 for the Bearer Independent Architecture, to specify the procedure to ensure that both ends of the connection use the same **guaranteed bit rate**.

Handover continues to be an "interesting" topic; we agreed CRs to 29.002 for Release 99, with mirrors for Rel-4, Rel-5 and Rel-6, to deal properly with handover of a multicall configuration, and with handover of voice broadcast call/voice group call configurations. We also endorsed a correction to the Release 99 stage 2 for handover, with mirrors for Rel-4 and Rel-5, to clarify the encapsulated access protocol to be used for various handovers between UTRAN and GERAN access. This last set of CRs will be presented for approval by CN1.

2.4   GSM

To show that CN1 are not the only working group who can take the lid off old releases, we have one CR to TS 29.002 for GSM Release 96, with mirrors to all six subsequent releases, to correct an error in the **handling of supplementary service data for services which are not supported in the VLR**. This is seen as an essential correction, because one of the services which is not handled properly is Closed User Group (CUG), and if CUG is not supported in the VLR the usual reaction of the HPLMN operator is to deny service for a CUG subscriber.

3   Questions for advice and decision

3.1   Ze interface Protocol

CN #19 are asked to decide whether the work item for the Ze interface protocol should be deleted, in view of the lack of support for it in CN4.

3.2   Preferred Framing Protocol

CN #19 are asked to decide whether the work item for the Preferred Framing Protocol should be deleted, in view of the lack of support for it in CN4.

4   Change Requests

CN4 produced 92 Change Requests which are submitted for ratification. An overview of the CR packages is provided in Table 1. Corrective CRs to Release 4 and earlier were agreed as critical corrections, unless there is an indication to the contrary.

Table 1: CRs submitted by CN4 for approval at CN #13 (sorted by work item)

Tdoc NP-03	Agenda item	Subject
0095	7.1	CAMEL phase 3
0096	7.3	GPRS
0097	7.7	Transcoder Free Operation
0099	7.9	Multicall
0098	7.11	Technical Enhancements & Improvements (R96)
0100	7.11	Technical Enhancements & Improvements (R99)
0101	8.1	Provisioning of IP-based multimedia services (Cx/Dx)
0102	8.1	Provisioning of IP-based multimedia services (Sh)
0103	8.3	CAMEL phase 4
0104	8.4	Location Service Enhancements
0105	8.5	End to End QoS
0106	8.7	Service Change and UDI Fallback
0107	8.8	Technical Enhancements & Improvements (Rel-5 - GTP)
0108	8.8	Technical Enhancements & Improvements (Rel-5 - CSSPLIT)
0109	8.8	Technical Enhancements & Improvements (Rel-5 - CCBS)
0110	8.8	Technical Enhancements & Improvements (Rel-5 - SMS)
0111	9.10	Technical Enhancements & Improvements (Rel-6 – MAP)
0112	9.10	Technical Enhancements & Improvements (Rel-6 – SMS)
0113	9.10	Technical Enhancements & Improvements (Rel-6 – Priority service)
0114	9.11	Location Service Enhancements

4.1 Release 4 (and earlier) CRs

Corrective CRs to Release 4 and earlier are **essential corrections**, unless there is an indication to the contrary.

4.1.1 CAMEL phase 3 (NP-030095)

NP-030095 contains 3 corrective CRs to the stage 2 specification of basic call handling: one to Release 99, with mirror CRs for Release 4 & Release 5.

CR 23.018-116r1 (R99, with Rel-4 nearly mirror in CR 23.018-117 and Rel-5 mirror in CR 23.018-118) corrects the SDL and accompanying text description of the procedures for paging and search for active location retrieval. **This is a remedy for the incorrect implementation of a previously approved CR**

4.1.2 GPRS (NP-030096)

NP-030096 contains 3 corrective CRs to the GTP specification: one to Release 99, with mirror CRs for Releases 4 & 5.

CR 29.060-384r1 (R99, with Rel-4 mirror in CR 29.060-385r1 and Rel-5 mirror in CR 29.060-386r1) reinstates the definition of the cause code "Version not supported", which was mistakenly deleted in an earlier CR.

4.1.3 Transcoder Free Operation (NP-030097)

NP-030097 contains 2 corrective CRs to the stage 2 specification of Transcoder Free Operation: one to Release 4, with a mirror CR for Release 5.

CR 23.153-052 (Rel-4, with Rel-5 mirror in CR 23.153-052) defines the behaviour of the MSC in setting the Guaranteed Bit Rate for the Radio Access Bearer. This is to meet the requirements set by SA2, SA4 & RAN3.

4.1.4 Multicall (NP-030099)

NP-030098 contains 4 corrective CRs to the MAP specification: one to Release 99, with mirror CRs for Releases 4, 5 & 6.

CR 29.002-530r1 (R99, with Rel-4 mirror in CR 29.002-531r1, Rel-5 mirror in CR 29.002-532r1 & Rel-6 mirror in CR 29.002-532r1) corrects an error in the protocol for the transfer of Radio Resource and BSSMAP Service Handover information on handover of a multicall configuration.

4.1.5 Technical Enhancements & Improvements for GSM Release 96 (NP-030098)

NP-030098 contains 7 corrective CRs to the MAP specification: one to GSM Release 96, with mirror CRs for all releases from GSM Release 97 to UMTS Release 6.

CR 09.02-A332r1 (R96, with R97 mirror in CR 09.02-A333r1, R98 mirror in CR 09.02-A334r1, R99 mirror in CR 29.002-548r1, Rel-4 mirror in CR 29.002-549r1, Rel-5 mirror in CR 29.002-550r1 & Rel-5 mirror in CR 29.002-551r1) makes it clear that the VLR shall return the supplementary service code for CUG if the HLR sends subscriber data for CUG and the VLR does not support CUG, and similarly for eMLPP.

4.1.6 Technical Enhancements & Improvements for Release 99 (NP-030100)

NP-030100 contains 4 corrective CRs to the MAP specification: one to Release 99, with mirror CRs for Releases 4, 5 & 6.

CR 29.002-538r2 (R99, with Rel-4 mirror in CR 29.002-539r2, Rel-5 mirror in CR 29.002-540r2 & Rel-6 mirror in CR 29.002-541r2) corrects an error in the protocol for inter-MSC handover of the talker/dispatcher in a Voice Broadcast Service/Voice Group Call Service configuration.

4.2 Release 5 CRs

4.2.1 Provisioning of IP-based multimedia services - Cx/Dx interfaces (NP-030101)

NP-030101 contains 2 corrective CRs to the stage 2 specification of data stored in location registers, 15 corrective CRs to the specification of signalling flows and message contents for the Cx & Dx interfaces and 5 corrective CRs to the protocol specification for the Cx & Dx interfaces.

CR 23.008-065r1 and the linked CR 29.228-030r1 align the description of barring of IP multimedia communication for barred IM public identities with the description in TS 23.228. **These CRs are linked, and must be approved or rejected as one unit.**

CR 23.008-067r1 and the linked CR 29.228-040r1 define the subscribed media profile identifier and its use, to follow the guidance given by SA2. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.228-024r1 clarifies the handling in the HSS for both Registration and De-registration requests from both registered and unregistered subscribers.

CR 29.228-025r1 clarifies the rules for downloading subscriber profile information when the profile is updated in the HSS.

CR 29.228-026 corrects a misalignment between the diagram and the accompanying text for the definition of the Service Point of Interest class.

CR 29.228-027 deletes the redundant Annex F; Annex E contains the same material.

CR 29.228-028 removes some redundant text which was agreed to be struck out during the development of the draft of TS 29.228, but which remained in the approved version of the specification.

CR 29.228-029 remedies the incorrect implementation of CR 29.228-016, which was approved in CN #18.

CR 29.228-031r1 updates TS 29.228 to reflect the fact that the Diameter protocol specification is (nearly!) an RFC.

CR 29.228-032r1 clarifies which of possibly several implicitly registered public user identities shall be used as the default public user identity.

CR 29.228-033r1 and the linked CR 29.229-013 replace the reference to a (now non-existent) definition in an internet draft with local definitions of integrity and confidentiality keys. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.228-034r1 corrects errors in the cardinalities for the initial filter criteria and service point of interest.

CR 29.228-035r2 and the linked CR 29.229-015r1 resolve an ambiguity in the procedure for an I-CSCF to select a different S-CSCF. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.228-037r3 and the linked CR 29.229-018r1 clarify the handling in the S-CSCF when it receives profile information from the HSS which the S-CSCF does not support or does not understand. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.228-038r1 systematically replaces the term "Service Point of Interest" with the term "Service Point Trigger", to align with the same change of notation in TS 23.218, approved at CN #18. **This CR is linked to CR 29.328-019r1, and both must be approved or rejected as one unit.**

CR 29.229-012r1 updates TS 29.229 to reflect the fact that the Diameter protocol specification is (nearly!) an RFC.

CR 29.229-014 changes the REGISTRATION_AND_CAPABILITIES code point of the User-Authorization-Type AVP from 3 to 2, to remove the gap from the sequence.

4.2.2 Provisioning of IP-based multimedia services - Sh interface (NP-030102)

NP-030102 contains 6 corrective CRs to the specification of signalling flows and message contents for the Sh interface (TS 29.328) and 6 corrective CRs to the protocol specification for the Sh interface (TS 29.329).

CR 29.328-012r3 and the linked CR 29.329-005r1 clarify that an Application Server may read only its own filter criteria (not those of another AS), and that an AS shall not modify the filter criteria stored in the HSS, following the guidance from SA2 and CN1. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.328-015 deletes the redundant Annex E; Annex D contains the same material.

CR 29.328-016r2 updates TS 29.328 to reflect the fact that the Diameter protocol specification is (nearly!) an RFC.

CR 29.328-017r1 and the linked CR 29.329-008 add the Application Server Name to the Sh-Pull request; the Application Server Name, together with the user identity and Data Reference, provide a unique identification for a filter criterion. This is to align with the usage in TS 29.228. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.328-018r2 and the linked CR 29.329-009 describe the way in which the Sh interface is used to transfer charging information. These CRs are also linked to CR 23.218-037r1 from CN1. **These CRs are linked, and must be approved or rejected as one unit.**

CR 29.328-019r1 systematically replaces the term "Service Point of Interest" with the term "Service Point Trigger", to align with the same change of notation in TS 23.218, approved at CN #18. **This CR is linked to CR 29.228-038r1, and both must be approved or rejected as one unit.**

CR 29.329-007r2 updates TS 29.329 to reflect the fact that the Diameter protocol specification is (nearly!) an RFC.

CR 29.329-011 adds the missing Data Reference AVP code point to identify the User State as requested data.

CR 29.329-013 replaces the Data Reference AVP code point name "Registration State" with "IMS User State", to align with TS 29.328.

4.2.3 CAMEL phase 4 (NP-030103)
NP-030103 contains one corrective CR to the stage 2 specification for the Line Identification supplementary services.

CR 23.081-007r1 clarifies that the Additional Calling Party Number may be included in the Send Routeing Info request from the GMSC as a result of CAMEL processing.

4.2.4 Location services enhancements (NP-030104)
NP-030104 contains 4 corrective CRs to the MAP specification (TS 29.002): 2 to Release 5, each with a mirror CR for Release 6.

CR 29.002-500r3 (Rel-5, with Rel-6 mirror in CR 29.002-568r3) adds the identifier of the positioning method to the result of the Provide Subscriber Location operation and the argument of the Subscriber Location Report operation, to meet the requirements of the North American emergency services.

CR 29.002-527 (Rel-5, with Rel-6 mirror in CR 29.002-528) aligns the definitions of the parameters for the Unauthorised LCS Client error between the service definition and the ASN.1 protocol definition.

4.2.5 End to End QoS (NP-030105)
NP-030105 contains 2 corrective CRs to the MAP specification: one to Release 5, with a mirror CR for Release 6.

CR 29.002-562r1 (Rel-5, with Rel-6 mirror in CR 29.002-563r1) makes it clear that the ext-QoS-Subscribed parameter of the PDP-Context data type is an **addition to** (rather than a **replacement for**) the qos-Subscribed parameter.

4.2.6 Service Change and UDI Fallback (NP-030106)
NP-030106 contains 2 corrective CRs to the MAP specification: one to Release 5, with a mirror CR for Release 6.

CR 29.002-560r2 (Rel-5, with Rel-6 mirror in CR 29.002-561r2) adds the necessary parameters to the Send Routing Info argument and result to support the two-step interrogation procedure for Service Change and UDI Fallback.

4.2.7 Technical Enhancements & Improvements for Release 5 (NP-030107, NP-030108, NP-030109 & NP-030110)
NP-030107 contains 6 corrective CRs to the GTP specification.

CR 29.060-387 completes the definition for the extended use of the Protocol Configuration Options information element.

CR 29.060-388 removes the redundant definition of the N3-BUFFER-SIZE parameter.

CR 29.060-389 corrects the requirement for the presence of the Protocol Configuration Options information element.

CR 29.060-395r3 defines the handling in a receiving GSN for messages which include a TEID which does not correspond to an existing PDP context.

CR 29.060-399 corrects some erroneous references to GPRS charging specifications.

CR 29.060-402r2 removes an ambiguity in the definition of how the Charging Gateway Address and Alternative Charging Gateway Address information elements are populated.

NP-030108 contains 2 corrective CRs to the MAP specification: one to Release 5, with a mirror CR for Release 6.

CR 29.002-558r1 (Rel-5, with Rel-6 mirror in CR 29.002-559r2) corrects an error in the handling of the interworking between the HLR and the VLR for CCBS.

NP-030109 contains 2 corrective CRs to the MAP specification: one to Release 5, with a mirror CR for Release 6.

CR 29.002-523r3 (Rel-5, with Rel-6 mirror in CR 29.002-524r3) cleans up the SMS procedures chapter of the MAP specification, and corrects several minor technical errors. **These CRs should be implemented before CRs 29.002-544r2 & 29.002-545r2.**

NP-030110 contains one corrective CR to the stage 2 specification for the Bearer Independent CS architecture and 2 corrective CRs to the protocol specification for the Mc interface.

CR 23.205-039r1 defines the correct Bearer Release procedure for Iu CS over IP.

CR 29.232-053 clarifies the way in which the User Plane initialisation procedures operate on the Iu interface.

CR 29.232-054r1 clarifies the way in which the User Plane initialisation procedures operate on the Nb interface.

4.3   Release 6 CRs

4.3.1 Technical Enhancements & Improvements for Release 6 (NP-030111, NP-030112 & NP-030113)
NP-030111 contains one corrective CR to the MAP specification (a correction to Release 6 already!).

CR 29.002-526 updates the version number of all ASN.1 modules in MAP to reflect that the specification is for Release 6.

NP-030112 contains 5 CRs to various specifications to define the applicability of the barring supplementary services to SMS transfer through an SGSN.

CR 23.011-003r3 defines the possibility for **invocation** of SS barring (but not SS control procedures) for SMS transfer via an SGSN. **If it is approved, this CR will trigger the creation of TS 23.011 v6.0.0.**

CR 23.016-030r1 defines the storage of subscriber data for SS barring in the SGSN. **If it is approved, this CR will trigger the creation of TS 23.016 v6.0.0.**

CR 23.088-003r1 defines the possibility for **invocation** of SS barring (but not SS control procedures) for SMS transfer via an SGSN. **If it is approved, this CR will trigger the creation of TS 23.088 v6.0.0.**

CR 24.088-001r2 adds the access signalling flows for SS barring of SMS submission via an SGSN. **If it is approved, this CR will trigger the creation of TS 24.088 v6.0.0.**

CR 29.002-509r2 modifies the procedures for SMS submission and delivery via an SGSN to allow the possibility for invocation of SS barring.

NP-030113 contains one CR to the stage 2 specification of the enhanced Multi-Level Precedence and Pre-emption service (eMLPP).

CR 23.067-011r1 adds the possibility for a priority level to be used for subscription, rather than being reserved for network internal use. **If it is approved, this CR will trigger the creation of TS 23.067 v6.0.0.**

4.3.2 Location services enhancements (NP-030114)
NP-030114 contains 2 CRs to the MAP specification and 2 CRs to the GTP specification to support Location services enhancements in Release 6.

CR 29.002-529 reflects in the MAP signalling the existence of LCS capability set 4 in Release 6.

CR 29.002-566r1 allows the "new" VLR to send the MSC number of its associated MSC to the "old" VLR on inter-VLR location area update.

CR 29.060-390r1 allows the "new" SGSN to send its SGSN number to the "old" SGSN in an SGSN Context Request message on inter-SGSN routeing area update. **If it is approved, this CR will trigger the creation of TS 29.060 v6.0.0.**

CR 29.060-403 allows the "new" SGSN to send its SGSN number to the "old" SGSN in a Forward Relocation Response message on inter-SGSN routeing area update. **If it is approved, this CR will trigger the creation of TS 29.060 v6.0.0. If CR 29.060-390r1 is not approved, this CR falls.**

5 Draft Technical specifications and reports

We have no draft technical specifications or reports to present to CN #19

6 Work organisation

6.1 Work Item descriptions (NP-030115 & NP-030116)

We have two work item descriptions, which are in NP-030115 & NP-030116.

NP-030115 contains the updated work item description for the development of the protocol for the Mn interface (Media Gateway Control Function to IM-Media Gateway). This update reflects the changed target dates for the deliverables.

NP-030116 contains a new work item description for the specification work in CN working groups for interworking between Wireless LAN access and the 3GPP system.

6.2 Review of the work plan

We have reviewed the progress on activities in CN4 against the work plan (version of 15 January 2003). The updated information in table 2 below was drafted in CN4 #18 and has been sent to the MCC for incorporation in the updated work plan. The table does not include information on work plan items which were shown as complete in the status report to CN #18.

Table 2: Updates to the work plan from CN4

Unique ID	Description	Updated status
2028	Security enhancements; Enhanced HE control of security (including positive authentication reporting); FS on Network impacts	CN4 are **still** waiting for some input from SA3. Realistically, we cannot expect to carry out any work for Release 6 unless SA3 provide some input before the next CN4 meeting. Should we delete this work item?
14001	IMS Phase 2; Mn interface (IM-MGW to MGCF) enhancements	Target date for approval of new specification is now December 2003 (CN #22)
14011	Preferred Framing Protocol for bearer independent CS architecture	Currently little support in CN4. Should we delete this work item?
14012	IMS Phase 2; Mp (MRFC - MRFP) interface protocol definitions	No change at CN4 #18
31008	Generic User Profile; Stage 3 - Network	CN4 have agreed in principle to undertake this work, but there was no substantive input (WID or technical). There is concern over the immaturity of the stage 1 & stage 2 specifications; we believe that we will need 6 months from when the stage 2 specification is stable in order to do the stage 3 work.
33005	Security enhancements; Rel-6 MAP application layer security; Security signalling flows for the Ze interface	Currently little support in CN4. Should we delete this work item?

6.3   Division of work between IMS and non-IMS

As requested at CN #18, we took an informal indication of interest in IMS and non-IMS work in CN4. All delegates indicated that they were interested in both the IMS and the non-IMS work; on this basis, there seems to be no scope for splitting CN4 into "IMS" and "non-IMS" streams.

7   CN4 meeting calendar

We have a calendar of meetings agreed to the end of 2003; hosts have come forward for all the definite meetings. The meetings of CN1, CN2, CN3 and CN4 in May, August and October will be collocated; if there is a meeting in November it will be CN4 "solo", which will be easier to arrange. We decided at our meeting in Dublin that we would **not** have a meeting in April; the understanding was that the date for this meeting was reserved in case (in the true English-speaking sense of the phrase…) we needed it to press on with our work for Release 6, but the likely date to put Release 6 to bed is going to be later than June, so there is no pressing need for a CN4 meeting in April.

Table 3: CN4 meeting calendar to the end of 2003

Date	Meeting	Venue	Host
19 – 23 May 2003	CN4 #19	San Diego, CA, USA	North American Friends
25 – 29 August 2003	CN4 #20	Sophia Antipolis, France	ETSI
27 – 31 October 2003	CN4 #21	China	Ericsson
17 – 21 November 2003	CN4 #22	?	To be arranged only if needed

7   Acknowledgments

First, I have (and it's a duty which gives me no problem at all) to thank Kimmo Kymäläinen for providing the excellent support which we have come to expect from the MCC. I am sure that my successor as CN4 chairman will have more than a passing interest in whether Kimmo's contract will be renewed in June!

The CN4 participants have been very prolific in producing documents; delegates can be thankful that we have left behind the days of paper documents, otherwise there would have been a lot of excess baggage charges to pay when people went home! They also put up with some unsociable hours; there was only one day when the meeting finished before 7:30, and **that** was because I was going out to dinner with some friends…

Finally, I would like to thank the hosts of our meeting. This is the first time I have been to a meeting hosted by the European Friends of 3GPP, and I am sure that the other CN working group chairmen will join me in congratulating them on the high standard they have set. Knowing who is the main person in the "back office" of "EF3", I would expect nothing less...