

Third Generation Partnership Project

DRAFT STATUS REPORT v0.1.0

3GPP TSG-CN#10

Bangkok, Thailand
6th – 8th December 2000



Hosted by UNISYS

Chairman: Stephen Hayes, Ericsson Inc. Stephen.hayes@ericsson.com
Vice-Chairman: Ian Park, Vodafone. ian.park@vf.vodafone.co.uk
Vice-Chairman: Hiroshi Nakamura, DoCoMo. naka@docomo.fr
MCC Support: David Boswarthick, ETSI MCC. david.boswarthick@etsi.fr

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1 Opening of the meeting

A welcome introduction was given by Mr. Gerfried Handke of Unisys Deutschland GmbH. The meeting was chaired by Mr. Stephen Hayes, (Chair, Ericsson). Additional support was provided by Mr. Ian Park (Vice-Chair, Vodafone), Mr. Hiroshi Nakamura (Vice-Chair, DoCoMo), and Mr. David Boswarthick (CN Secretary, MCC). The chair thanked the hosts for the meeting arrangements.

2 Approval of Agenda

The agenda was approved (NP-000591).

3 IPR Declarations

The IPR question was asked and there was no response.

4 Items for External Attention

4.1 For SA Attention

4.1.1 OSA CRs to 23.127

3 OSA CRs are being liaised to SA. These are R'99 CRs to the sections of 23.127 for which CN5 has responsibility. Since SA2 has ownership of this specification, CN requests that SA approve the CRs in SP-000637 (NP-000746).

4.1.2 Need for WI on Intersystem Roaming

SA3 has requested CN4 to develop the protocol changes to support positive authentication reporting for 3GPP2 subscribers. Although the security work is covered under the SA3 WI "Enhanced home control of security", it is the view of TSG-CN that this work cannot be done without the context for understanding how a 3GPP2 subscriber would be supported in a 3GPP network. TSG-CN recommends that a WI on intersystem roaming be initiated by TSG-SA if support of 3GPP2 subscribers in 3GPP networks is to be provided. This is described in liaison SP-000638 (NP-000747).

4.1.3 Operator Determined Barring for PS Networks.

TSG-CN has endorsed the principle of a WI for ODB for GPRS. Although SA1 has provided these requirements, there are dependencies on SA2. Since groups outside of CN are affected, the WI was not approved at this meeting. CN2 and CN4 are tasked with reviewing and refining the work item for approval at TSG-CN#11. Providing there are no objections to the work assigned to SA1 and SA2, CN will approve this work item at CN#11. The current target for this WI is Rel-4 even though there is a significant chance that it will not be ready in March. The liaison is SP-000618 (NP-000735).

5 Release '99 Workitems

5.1 CAMEL Phase 2

CRs in NP-000614 and NP-000635 were approved.

TSG-CN endorsed the principle that support of CAMEL phase 2 implies support of CAMEL phase 1. The general applicability of this principle to later CAMEL releases is for further study.

5.2 CAMEL Phase 3

CRs in NP-000615, NP-000618, NP-000714, NP-000715, NP-000716, NP-000741 were approved.

5.3 Security

CRs in NP-000637 and NP-000672 were approved.

5.4 EDGE

CRs in NP-000668 were approved.

5.5 TEI

CRs in NP-000604, NP-000638, NP-000673, NP-000674 were approved. The CR in NP-000687 (V.44 support in SNDCCP) was rejected.

5.6 ASCI

CRs in NP-000639 and NP-000722 were approved.

5.7 CF Enhancements

CRs in NP-000640 were approved.

5.8 GPRS

CRs in NP-000641 and NP-000670 were approved.

The plenary agreed to a working assumption that 23.090 should be changed to align with 23.060 (referred to as solution 2 in NP-000593). Possible technical problems in sequence numbering were discussed in NP-000695. It was agreed that CN4 would work to evaluate and find a solution to the identified problem. A liaison to RAN, RAN3, and SA2 was drafted indicating the working assumption (NP-000728).

A problem with GPRS roaming was presented (NP-000697). This problem is due to lack of a PS roaming agreement between operators and can lead to the blocking of GPRS service in the home PLMN until the mobile is powered off. It was agreed that this is a significant error and it is due to an oversight in meeting the original requirements. CN1 was urged to investigate the problem and develop a solution as rapidly as possible. CN1 should attempt a long term fix as opposed to simply redefining the behaviour of cause code #7. Operators are also warned of using cause code #7 to reject GPRS registrations from roamers.

5.9 GTP Enhancement

CRs in NP-000642 were approved.

5.10 Handover

CRs in NP-000643 were approved.

CN4 is to review the upper size limit of RANAP messages over the E-interface (CRs 209 and 212) and produce corrective CRs if required.

5.11 GSM-UMTS interworking

CRs in NP-000671 and NP-000724 were approved.

One set of SDLs to 23.009 is missing, but will be provided by the next CN plenary.

5.12 CS Bearers in UMTS

CRs in NP-000605 were approved.

5.13 OSA

CRs in NP-000718, NP-000720, NP-000742 were approved.

3 OSA CRs are being liaised to SA for approval (NP-000746). These are R'99 CRs to the sections of 23.127 for which CN5 has responsibility. Since SA2 has ownership of this specification, CN requests that SA approve the CRs.

5.14 USSD

CRs in NP-000646 and NP-000647 were approved.

6 Rel-4 and Rel-5 Workitems

6.1 Evolution of Transport in the CN

A WI for #7 Signalling over IP in CN (NP-000736) was approved. This WI is for Rel-4.

6.2 Provisioning of IP-Based Multimedia Services

The WI for the CSCF-HSS (Cx) Interface (NP-000725) was approved. This is targeted for Rel-5.

A revised version of the SIP Call Control protocol WI (NP-000727) was approved. This is targeted for Rel-5.

Initial versions of 23.cde, 24.228, and 24.229 were discussed. These are not yet presented for information (not raised to version 1.xx yet). A specification number for 23.cde will be allocated soon.

Concern was raised that 23.cde seems to go into excessive detail on CAMEL handling. It was agreed that the principle for 23.cde is that it should cover mandatory handling. Hooks for optional features and services should be described but not the optional handling. Note that this does not imply that all mandatory functionality will be covered in this document, other specs may be needed. It was also noted that the descriptive method for 23.cde will probably be SDL. The scope of 23.cde should also be tightened.

CN1 will have ownership of 23.cde, but since it spans multiple CN WGs, the initial work on 23.cde may best be handled in drafting sessions co-located with the co-located CN WG meetings.

6.3 Emergency Call Enhancements

A revised version of the CS Emergency Call Enhancements WI (NP-000743) was approved. This is targeted for Rel-4.

A revised version of the PS Emergency Call Enhancements WI (NP-000665) was approved. This is targeted for Rel-5.

6.4 Enable Bearer Independent CS Architecture

TS 23.205 (Bearer Independent CS Core Network; Stage 2) was presented for information.

TS 29.232 (Media Gateway Controller (MGC) – Media Gateway (MGW) Interface; Stage 3) was presented for information.

It was noted that BICC CS2 was determined in ITU.

A proposal (NP-000692) to require selection of a single inter MSC server call control protocol was discussed. It was agreed that it was premature to decide how many protocols are appropriate at this time. CN4 will continue to work with the assumption that multiple protocols may be supported.

6.5 Bearer Modification without pre-notification

It was noted that this WI may be withdrawn. However since SA1 has responsibility for the motivating requirement, formal withdrawal will be synchronized with the approval of CRs from SA1 removing the requirements. Much of the intended functionality can be handled under the multimedia swap and fallback WI.

6.6 CAMEL Phase 4

CAMEL Phase 4 now seems targeted for Rel-5. It was agreed that even though this might cause some confusion, it would be more confusing to start renaming the CAMEL phases or skip a phase. The existing naming is kept.

The CR in NP-000648 is postponed. It will be remitted to CN2 to include in the complete package of CAMEL phase 4 CRs.

6.7 Transcoder-Free Operation (TrFO)

The TrFO work seems to be progressing well (NP-000655).

The implications of lawful intercept were discussed, but it was considered to early to assess the impacts of this requirement.

TS 23.153 (Out of Band Transcoder Control – Stage 2) was approved and will be raised to version 4 after some minor editorial changes.

The CR in NP-000676 was approved.

6.8 Security Enhancements

SA3 has requested CN4 to develop the protocol changes to support positive authentication reporting for 3GPP2 subscribers (NP-00595, NP-000748). Although the security work is covered under the SA3 WI “Enhanced home control of security”, it is the view of TSG-CN that this work cannot be done without the context for understanding how a 3GPP2 subscriber would be supported in a 3GPP network. TSG-CN recommends that a WI on intersystem roaming be initiated by TSG-SA if support of 3GPP2 subscribers in 3GPP networks is to be provided. This is described in liaison NP-000747.

6.9 ASCI

A WI for ASCI (NP-000730) was approved. This WI is for Rel-4.

CRs in NP-000649, NP-000650, NP-000667 were approved.

6.10 Miscellaneous Rel 4 & Rel 5 Items

A liaison on terminal capabilities from T2 was discussed (NP-000729). It was agreed that SA should first address the overall service requirements for capability reporting before CN undertakes protocol work.

CRs in NP-000606 “CS Bearers” [Removal of BS30 NT] – Rel4 were approved.

CRs in NP-000669 on GERAN support for 700 MHz band – Rel4 were approved.

A WI on TEI4 – Rel 4 (Support of V.44 Data Compression in SNDPCP) (NP-000675). was approved. A liaison was drafted to SA2 asking for the rationale of supporting compression in SNDPCP and not in PDCP (NP-000739).

A WI for CN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes (NP-000737) was conditionally approved. This WI is for Rel-4. It was noted that the WI depends on a companion WI for the study of the architectural impact of Intra Domain Connection of RAN Nodes to Multiple CN Nodes, which needs to be approved by TSG-SA before the work can be carried out in CN.

7 Work Organization

7.1 CN1 ToR

The CN1 ToR have been updated to reflect additional IM responsibilities. The modified ToR (NP-000712) was approved.

8 Workplan/Projectplan

8.1 Review of Project Plan

The latest version of the project plan (NP-000688 and NP-000689) was reviewed. Changes from CN1, CN2, and CN3, and CN5 have been incorporated. Changes from CN4 leadership have not been endorsed by the WG and due to their late arrival have not been incorporated yet.

It was agreed to try to use the unique ID field for tracking work tasks. It was acknowledged that mishandling within MS Project could cause instability in that field, but the MCC felt that since the document was under their control, they could ensure its integrity.

CN applauds the MCC for the improvements it has made to the project plan change tracking (NP-000690). A mechanism to track the creation and deletion of WIs is also desirable.

8.2 Release Planning

TS 21.102 (Specs for Rel-4) was presented. It was agreed that the default mode of operation within CN is that all specifications automatically get upgraded at the trigger point for the next release. If there is a specification which should not be raised, this exception needs to be specifically noted. CN WGs are to report any such exceptions (for Rel-4) at CN#11. An equivalent document for Rel-5 is targeted for March 2001.

WGs should review the specification list (NP-000628) and report any discrepancies to the MCC.

8.3 Future Meeting Schedule

The future meeting schedule is presented in NP-000733. The joint meeting schedule for the WG meetings in Beijing is also listed in this document.

It was agreed that the CN4 chair will make a judgement call based on the volume of R99 work as to whether parallel sessions of CN4 are needed in Beijing.

It was agreed to try to align the November 2001 CN WG meetings to allow hosting by the NA Friends of 3GPP. The groups will shift to avoid Thanksgiving (now known to be on November 22, 2001).

CN5 will be shifting to a 6 week meeting schedule. The 2001 meeting schedule for CN5 is not yet known, but alignment with the co-located meetings will be considered in making up the CN5 schedule.

9 Working Methods/Work Style

In response to a liaison from SA1 on TR 21.905 (3GPP Vocabulary), the specification rapporteurs are tasked with synchronizing their specifications with 21.905. This includes quoting 21.905 as a reference and ensuring that missing terms and definitions are included in 21.905. This information should be communicated to SA1 via a liaison to ensure traceability.

A sweep by the rapporteurs should be made through the specifications for use of "for GSM" and "for UMTS". For those instances where the context is such that the terminology decision to use the "A/Gb" and "lu" notation applies, corrective CRs should be generated.

All CN WGs should pay attention to CR categories (all releases) and to the criteria for accepting corrections to frozen releases (R99 and earlier).

The proposed CRs to 21.900 were endorsed by CN (NP-000625). The proposed change to the stock References text (NP-000657) was also endorsed.

CN endorsed the creation of a generic TE&I WI (NP-000691). It was noted that TSG-CN is responsible for preventing misuse of this WI for CRs under its remit.

The IETF Collaboration agreement (NP-000711) was provided for information. It was noted that CN1 has already established more detailed working procedures that are consistent with the terms of the collaboration.

10 Support Arrangements

The group recognized Ban Al-Bakari for her hard work. This is her last meeting as part of the MCC.

11 Close of Meeting

The meeting was adjourned at 16:00 on Friday, December 8, 2000.