

Source: TSG-CN2 chairman
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Subject: CN2 status report

TSG-CN2 has held one meeting since the last plenary;
- CN2#30 25th – 29th August, Sophia Antipolis, France. Hosted by ETSI. Report in **NP-030360**.

1 Executive summary

LSes were sent out from CN2:

- A. To SA1 to get clarification on Rel-6 ChangeOfPosition service requirement. **N2-030455/NP-030361**.
- B. To SA5-SWGB to request clarification Rel-5 specs, mainly on CPH charging. The LS was attached with a CR. **N2-030457/NP-030361**.
- C. To SA3 to interrogate status of Legal Interception for SCP initiated calls. **N2-030437/NP-030361**.

CN2 had many postponed CRs from the previous meeting. In this meeting we managed to handle all CR that were submitted prior to the deadline. Due to postponed documents, the Rel-5 door was a bit more open than it should have been.

One CR was approved in R99 CAMEL3 plus its mirror CRs.

CN2 will produce collective CRs (one CR per affected specification) on Rel-6 Enhanced Dialled Services (EDS) for CN#22. The CN2 work is 90% complete.

CN2 does not want to take or give work from/to SA5-SWGB.

CN2 has about 20 open issues. Some are small, just input tdoc is expected to fix it.

CN2 approved SCUDIF CAMEL4 CRs for Rel-5. SCP is aware of preferred and less preferred service, and about the selected service at answer. Bearer/service changes during call are not reported to the CAMEL service logic (SCP).

CN2 approved Rel-5 CR on CAMEL stage 2 for mobile number portability (MNP). This CR is part of the MAP-ATI alternative. There was a bit wrong pre-condition for approval (wrong CR number referred). If the MAP-ATI approach is taken, the CR should be approved, otherwise rejected.

In the CN4 joint session CN2 discussed Rel-6 presence service. It was open whether presence requires CAMEL, or whether it is independent of CAMEL. In the latter case CN2 has very little to do with the topic, although CAMEL mechanisms would be used.

2 CAMEL phase 1 (R96)

No change.

3 CAMEL Phase 2 (R97 & R98)

No change.

4 CAMEL phase 3 (R99)

The progress by functionality; the most important changes were the following:

- A. ATM/ATSI: No change.
- B. GPRS inter-working: No change.
- C. MO SMS: No change.
- D. Call Gapping / SCP load control: No change.
- E. Dialled services: No change.

- F. CF notification: No change
- G. Call-related:
 - **NP-030362 23.078-CR621** “Correction in handling of Start-Delta and Stop-Delta operations”.
- H. Miscellaneous: None
- I. Controversial issues in CAMEL3: None

5 3GPP Rel-4

In the 3GPP release 4 there is no new CAMEL phase. No changes.

6 CAMEL phase 4 (Rel-5)

The progress by functionality:

- A. Interaction with optimal routing: No change.
- B. Call party handling:
 - **NP-030365 23.078-CR573** “Reporting Disconnect (leg n)”. Clarifies the SDL so that also leg3 and higher can report Disconnect EDP.
 - **NP-030365 23.078-CR575** “Correction to procedure CAMEL_ICA_MSC”. SDLs corrected. Wrong state names.
 - **NP-030365 29.078-CR313** “Correction to parameter name in Connect Operation”. Stage 3 aligned to stage 2.
 - **NP-030365 23.078-CR523** “Handling of Connect operation with and without LegID”. SDLs corrected to implement CPH on one hand, and maintain CAMEL3 compatibility.
 - **NP-030365 23.078-CR524** “Handling of Information Flows with absent LegID and CS ID”. SDLs corrected to implement CPH on one hand, and maintain CAMEL3 compatibility.
 - **NP-030365 23.078-CR611** and **NP-030365 29.078-CR327** “Correction to Apply Charging and Apply Charging Report due to introduction of CPH”. The CR implements the ApplyCharging for user interaction.
 - **NP-030365 23.078-CR609** and **NP-030365 29.078-CR322** “Correction to usage of LegId in ICA Operation”. LegID=3 or higher shall be used in Initiate Call Attempt.
 - **NP-030365 29.078-CR325** “Correction to CAP Operation Error values”. The title says it all.
 - **NP-030365 23.078-CR601** “Correction of "Int_leg_Status_Report" to avoid double state changes in the CSA”. An essential SDL correction.
 - **NP-030365 23.078-CR616** “Allow user interaction at answer DP”. Aligns implementation to requirements. Still UI at alerting and Mid-Call are missing.
 - **NP-030365 23.078-CR329** “MoveLeg precondition for source and target CS”. Enhances service so that additional legs can be joined to the leg of the original BCSM, if the that BCSM is in TDP.
- C. Mid call procedure for MO and MT call handling: No change.
- D. CAMEL for IMS:
 - **NP-030374 23.278-CR043** “Incorrect handling of failure SIP response for MT”. SIP flow is corrected.
 - **NP-030374 23.078-CR045** “Incorrect handling of failure SIP response for MO”. SIP flow is corrected.
 - **NP-030374 23.078-CR044** “Setting of Timers not specified for IMSSF process”. The appropriate SIP timers implemented to show CAMEL interworking with them.
- E. CAMEL control over MT SMS:
 - **NP-030366 29.078-CR328** “Usage of Alphanumeric Characters in SMS Address Fields”. Alpha numeric addresses are made work, especially for the MT case.
 - **NP-030366 23.078-CR603** “Correction to SMS Event Disarming”. The CR clarifies that all EDPs are disarmed when successful or failure.
 - **NP-030366 23.078-CR604** “Correction to SMS Error handling”. Handling of STATUS-REPORT is improved when the TP Data Coding Scheme is not present in the TDPU.
- F. Inclusion of flexible tone injection:
 - **NP-030367 23.078-CR617** “Handling of concurrent tones”. The CR clarifies what happens when 2 or more tones are to be connected to same user, or same set of users.
 - **NP-030367 23.078-CR605** and **29.078-CR326** “Correction to PlayTone pre-conditions”. It is clarified that PlayTone is not allowed during user interaction.
- G. Provision of location information of called subscriber (Alerting phase): No change.

- H. Notification of GPRS mobility management to CSE:
 - NP-030368 23.078-CR615 “Correction on MG-CSI sending to the SGSN”. In is clarified that this CSI is sent to SGSN in certain case only.
- I. Inclusion of ODB data in the CSE-HLR interface: No change.
- J. Location information during an ongoing call (Handover DP).
 - NP-030368 23.078-CR614 “Correction to Change of position processes”. The CR removes sending signal “Int_O/T_Change_Of_Position” while receiving “RELOCATION_REQUEST_ACKNOWLEDGE” signal.
- K. GPRS AnyTimeInterrogation: No change.
- L. IMEISV to SCP: No change.
- M. Partial implementation of CAMEL4:
 - NP-030368 23.078-CR558 “Correction to partial implementation of CAMEL4”. Information flow conditions fixed.
 - NP-030368 23.078-CR602 “Alignment of Offered CAMEL4 functionalities”. Description of subsets have been corrected and clarified.
- N. Miscellaneous:
 - NP-030363 23.078-CR608 “Correction to procedure Handle_O_Answer”. Destination Number handling corrected.
 - NP-030363 23.078-CR584 “Direction change of incoming message Answer”. SDL improvement.
 - NP-030363 23.078-CR612 “Receiving Int_CWA after reporting Abandon”. ContinueWithArgument handling improved in Abandon DP.
 - NP-030363 23.078-CR610 “Correction of “pty continues” and “LegActive” check boxes in SDL’s”. SDL is clarified to avoid confusion.
 - NP-030365 23.078-CR570 “Update of Charging spec references”. Wrong spec references, updated to Rel-5.
 - NP-030369 23.078-CR620 and 29.078-CR330 “Correction to InitialDP for SCUDIF”. Implements SCUDIF.
 - NP-030369 29.078-CR331 “Introduction of extensibility mechanism in Release 5”. The CR prepares for Rel-6 ChangeOfPosition changes. Without this CR, changes would not be backward compatible.
 - NP-030364 23.078-CR530 “CR530 Incorrect Charging With MNP”. Part of MAP-ATI solution.

Controversial CAMEL4 issues:

- MNP. CAMEL CR is part of MAP-ATI solution. Another alternative is the MAP-SRI solution, in which CAMEL is not changed.

7 CAMEL phase 4 (Rel-6)

Two Rel-6 CAMEL issues were discussed in CN2 ad hoc. Collective CRs will be provided.

8 Other Work Items with impact on CAMEL

1. MNP.
2. SCUDIF.

9 CN2 meeting calendar

Meeting calendar:

TITLE	TYPE	DATES	LOCATION	CTRY
CN2#31	WG	27 - 31 Oct	Bangkok	Thailand
CN2#32	WG	16- 20 Feb	TBD	TBD
CN2#33	WG	10 – 14 May	TBD	TBD

10 Other issues to be mentioned

11 Acknowledgements

I would like to thank ETSI for inviting us to warm and nice Sophia Antipolis.

Andrijana Jurisic was working as usual – quiet but efficient. No mistakes. If you haven't delivered your document, she knows...

And finally, thanks to the active contributors and delegates. The CAMEL spec is better than ever.