

Source: TSG-CN2 chairman
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Subject: Summary Report of the TSG-CN2 for the TSG-CN#10

TSG-N2 has held two meetings since last plenary;

- October 16 - 20, Vienna, Austria, hosted by Telecom Austria and
- November 13 - 17, Paris, France, hosted by Alcatel

1 CAMEL phase 1

Not changed.

2 CAMEL Phase 2

- A correction (proposed by Siemens) to the Call Forwarding was agreed. It was noted that one vendor has implemented the SDLs literally, where as the others had followed the undocumented "spirit of the call forwarding notification". It was agreed to insert a health warning for the service logic designers about the different implementations out there.
- The *supported CAMEL phases* parameter of MAP protocol was clarified. Each network element mark individually all the CAMEL phases it supports. There is one bit per CAMEL phase.
- CN2 endorsed to principle that a network element supporting CAMEL phase 2 must also support CAMEL phase 1 automatically. This would ease service design. It is up to the SA1 to have the final word on this principle. If the principle is adapted to CAMEL2, the CAMEL3 and further needs another decision.

3 CAMEL phase 3

In both meetings the main focus was in CAMEL phase 3. The progress by functionality;

- GPRS inter-working was the subject of most work. A number of corrections were made. The most important changes were the following:
 - A note was added about a guard timer in the SGSN. The SGSN may control that the SCP sends new validity period for time and allowed data volume.
 - Location related parameters have been fine-tuned.
 - GGSN address will be sent to the SCP to ensure global uniqueness of the GPRS charging ID.
 - A future proof ASN ellipsis notation was added to allow future enhancements in a backward compatible manner.
 - Lucent, Nokia and Siemens indicated that they want to freeze CAMEL3 GPRS related ASN.
- MO SMS: fine tunings.
- Call Gapping / SCP load control: The Stage 2 was aligned with Stage 1. The gapping applies only to the HPLMN subscribers, unless there are some bilateral agreements between the operators.
- Dialled services: Not changed.
- CF notification: Open, since the service requirements are not clear.
- ATM/ATSI: ATM can modify multiple elements at once. The Siemens CR on ATM was put on e-mail approval.
- General issues of CAMEL3:
 - *Route not permitted* parameter was introduced to indicate to the SCP that a CF did not take place due to Optimum Routeing interworking.
 - CS and PS related charging operations were improved to handle all tariff switch cases.

The CN2 chairman's personal view is that now the CAMEL3 is quite stable, no major errors exist. The changes are becoming more and more editorial in their nature. Individual errors will be spotted while the vendors and operators progress in their CAMEL3 development – exactly the same that happened with CAMEL2.

4 CAMEL phase 4

The progress by functionality:

- Call Party Handling (CPH):
 - Some information flows were approved. Some are still to be agreed upon.
 - The first set of SDLs were approved. The SDLs need to be improved.
 - SCP initiated calls can be initiated to a VMSC with a MSRN, or to a GMSC with a MSISDN.
 - Alerting DP was enhanced to EDP-R.
 - In general, CPH work is time consuming since the terminology and concepts are new for the most of the CN2 delegates. Also the service requirements differ from the fixed network capabilities, and this fact requires fine-tunings everywhere.
- Optimum Routeing: Not changed.
- CAMEL control over IPT/VoIP: The situation of the VoIP is a bit unclear, and depends on the fact whether it will be based on the CAME3 or CAMEL4. Thus, no progress.
- MT SMS: 23.078 and 29.078 initial CRs were approved. 29.002 CR is still to be agreed – it will be revised based on CN4 comments. 23.008 and 23.016 CRs are postponed to the January meeting.
- DTMF MidCall: First CRs approved.
- Announcement enhancements: First CRs were presented, but they need clarification & revision for the next CN2 meeting.

The CN2 is currently producing a draft for CAMEL4. There are discussions outside of CN2 to split CAMEL4 into Rel4 and Rel5 functionalities. Unless explicitly otherwise decided, the CN2 progresses with the current approved set of Stage 1 requirements.

5 Other Work Items with impact on CAMEL

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6 R2000 IPT/VoIP work share between N1, N2, N4 and S2.

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7 Other issues to be mentioned

- CN2 welcomes new secretary Per Johan Jorgensen.
- The consensus in the CN2 was that the R99 CAMEL3 is not yet ready for freezing. The impact of the freeze would be more discussions on cover page categories etc. The TSG-CN can take this into account as an individual input – there may be other more important drivers to freeze R99 specs.
- Meeting calendar for 2001 was discussed with N4. The schedule looks currently as follows:

15-19 Jan	Beijing, China (Ericsson)
26 Feb – 2 Mar	Nice, France (ETSI premises)
14 – 18 May	USA (American Friends of GSM)
9 – 13 Jul	Düsseldorf, Germany (Mannesmann)
15 – 19 Oct	UK (BT & Vodafone)
26 – 30 Nov	<no host yet>
- The remaining year 2000 meeting calendar looks as follows:
<no meetings>