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## TSG-CN Status Report

### Executive Summary

The work of CN has been primarily focused on the completion of R'99. Substantial effort has been expended on CAMEL phase 3, GLR, GSM/UMTS Interworking, Handover (OoTBC), Multicall, and Multimedia. Considerable progress has occurred and these work items are now substantially completed for R'99.

Work was also done on security, but these items are in general not yet completed.

In addition to CN#7, there have been (since CN#6):

- 1 meeting of the CN R'00 Ad-Hoc
- 2 meetings of N1
- 1 meeting of the full N2 group
- 1 meeting of N2A alone
- 2 meetings of N2B alone
- 1 meeting of N3
- 1 meeting of the SS Ad-Hoc
- 3 meetings of the OSA Ad-Hoc

### 1. Work item status

The status of the CN work items at the end of CN#7 is shown below. Additional information on the status of the particular work items and the CRs associated with those WIs can be found in the CN#7 meeting report and the working group reports:

N1 report: NP-000081

N2 report: NP-000126

N3 report: NP-000041

SS report: NP-000163

OSA report: NP-000058

Work items are grouped roughly by completion dates and releases. Those that are completed now and are part of R'99 are listed first. In some cases, there is functionality that may be deferred or may be part of a subsequent release. The next section lists those work items that have been (or may be given) exceptions for late inclusion in R'99. Finally, the last section lists items that have been moved to R'00 (or possibly later).

WI Description	WG/Ad-Hoc Status	External Dependencies	Overall Status

Bearer Modification	N3: Completed		Completed R'99
Call Forwarding Enhancement	N2: Completed		Completed R'99.
CAMEL Ph 3	N2: CRs ready. User interaction in monitoring moved to R'00		Complete R'99. User interaction in monitoring moved to R'00
EDGE and EDGE Compact	N1: Complete except for PLMN selection		R'99. PLMN selection in R'00.
GLR	N2: Completed (23.119, 29.120)		Complete R'99.
GSM/UMTS interworking	N1: Completed N2: Completed		Completed R'99.
Handover (OoBTC)	N1: Partially complete - codec negotiation not done. Noncritical as long as AMR assumed. N2: Partially complete - incomplete parts of 23.153 to be moved to an annex. BICC and speech supported.	R3 signalling needed	Speech and BICC supported in R'99. TrFO supported in R'00
MM Classmark	N1: Completed		Completed R'99
Multicall	N1: Complete N2: Complete except for inter-MSC handoff SS: Complete		Essentially complete R'99. Some cleanup expected.
Multimedia	N1: Complete (23.972) N3: Partially complete. Swap & fallback moved to R'00		Essentially complete R'99. Swap & fallback to speech moved to R'00
Pre-Paging	N2: Completed		Completed R'99
QoS	N1: Completed N2: Completed		Completed R'99.
Supercharger	N2: Completed (23.116)		Complete R'99.
3G Location Services	N1: Add cell coverage/RTT coverage N2: Add cell coverage/RTT coverage		R'99. Extension until CN#8
Authentication Failure	N1: Complete, except UE response procedure to Ntwk auth failure not defined N2: Complete		R'99 Extension to CN#8
CS Bearers in UMTS (HSCSD?)	N3: Complete except for low rate NT services. CRs prepared	Awaiting question to S1 if this is a requirement.	S1 decision
EUIC	N1: Not complete N2: Complete except for paging after VLR restart. May not be mature.	S1 requirement on paging after VLR restart. SA decision if EUIC is required in R'99	CN Recommends move to R'00. SA to make decision on package

Global cause code of "No Id"	N1: Work starting		R'99 Extension to CN#8
IMEI Coding format	N1: Analysis starting		No decision
Integrity protection of Emergency Calls	N1: Needed but CRs not ready		R'99 Extension to CN#8
MAP Security	N2: Concept agreement probable. CRs not ready. Completion probable by CN#8. Discussion on Key distribution Via MAP not addressed		SA to decide if in R'99 or R'00.
OSA	OSA: Open issues to be resolved by R'99.		R'99 Extension to CN#8 to close open issues.
PCS-1900 NP	N2: CRs not ready		R'99 Extension to CN#8
Real Time Non-Transparent Fax	N3: Incomplete. Moved to R'00		Moved to R'00, but goal of early completion (CN#8).
L3 Segmentation	N1: Not started		R'00? Decision at CN#8
Turbocharger	N1: Not started		R'00? Decision at CN#8
USIM triggered re-authentication	N1: CRs not ready		Moved to R'00

### **3. Specifications Approved**

The following specifications were moved to v3.

TS	Title	Notes
23.116	Supercharger Stage 2	
23.119	GTP GLR Stage 2	
23.120	MAP GLR Stage 2	
23.972	Multimedia report	

In addition 04.01 is to be transposed to a 3GPP specification.

### **4. Liaisons**

The following Liaisons were generated by CN#7:

TS	Destination	Title
NP-000136	S1	CAMEL 3 functionality moved to R'00
NP-000142	S3	Request for a joint meeting

NP-000193	S2, SA	Organization of OSA/VHE work for R'00
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## **5. Elections**

Due to the resignation of the current CN chair (Harald Dettner), new officers were elected to fulfill the vacancy. Stephen Hayes (Ericsson) was elected chair. Ian Park (Vodafone Airtouch) was elected as one of the vice chairs. Massami Yabusaki remains as a vice-chair.

The duration of the terms of the newly elected officers will be determined by the PCG once the issue of election synchronization is resolved.

## **6. CN Reorganization**

TSG-CN will be reorganized as follows:

Group	Old Grp	Topic	Chair/Convenor	Secretary
N1	N1	MM/CC/SM	Hannu Hietalahti (Chair)	Ban Al-Bakri
N2	N2A	CAMEL	Keijo Palviainen, Nokia (proposed Convenor)	Monica Hellman
N3	N3	Interworking (with external Networks)	Norbert Klehn (Chair)	David Boswarthick
N4	N2B + SS	MAP/GTP / BCH/SS (SS - only maintenance expected)	Yun-Chao Hu – Ericsson (proposed Convenor)	Franco Settimo
N5	OSA	OSA	Lucas Klostermann, Ericsson- (proposed Convenor)	Monica Hellman
ITU-T Coord	ITU-T Coord	ITU-T coordination electronic workstyle!	Masami Yabusaki (Ian Park)	none

This change will take effect immediately. However for the original CN2, The old N2 will have a final plenary meeting at the beginning of the March 27, 2000 and then assume the new structure as N2 and N4.

## **7. Miscellaneous**

ITU-T is currently planning an informal meeting with major 3G organizations in order to define the future role of ITU in IMT-2000. As preparation for this meeting, a physical meeting of the ITU-T coordination group is planned for the end of May.

A workshop on all-IP was held at the beginning of February, preceeded by a tutorial session from S1. It was felt that it was desirable to be proactive for the all-IP work. A focus is needed for the all-IP work, however there was reluctance to extend the existence of the all-IP ad-Hoc. This work will be done using joint WG meetings. An initial meeting is set up for April 13-14 in conjunction with S2. The primary focus of this meeting will however be workitem planning. A second joint WG meeting to deal with the all-IP CN issues may be called if necessary in May.

A meeting is also requested with S3 in early May to work closer on the security requirements.

## **8. Future Meetings**

The following meetings are planned until CN#8

Group	Date	Location
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N2, N4	27-31 March	Charleston, USA
N5/SPAN3	5-6 April	
N3	10-14 April	Berlin, Germany
N1/S2 (Call model for IP)	11-13 April	Helsinki, Finland
CN WGs/S2 (WI planning)	13-14 April	Helsinki, Finland
CN Joint WG (All-IP if required)	Early May	
CN WGs/S3 (Security reqmts)	Early May	
N5	11-12 May	
N1	22-26 May	Kauai, USA
N3	22-26 May	Kauai, USA
N4	22-26 May	Rottenburg, Germany
N2/SPAN3	23-26	Gotland, Sweden
ITU-T Coord	29-30May	Paris, France
N5/SPAN3	15-16 June	
CN#8	21-23 June	Dusseldorf

## **7. Miscellaneous**

A tremendous amount of work has occurred in CN in progressing work items for closure at this meeting. This has led to some very late hours and stressed out delegates and MCC staff. However, this effort has led to the substantial completion of the majority of the work items. I would like to thank the delegates, MCC, and hosts for their Herculean efforts. I would also like to thank Harald Dettner for his past leadership and in advance for all the times I will call him in the future for advice.