

## Third Generation Partnership Project

### STATUS REPORT v0.0.1

#### 3GPP TSG-CN#8

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## **1. Opening of the meeting**

The agenda (NP-000211) was approved. This introduced a task oriented organization of the meeting. The document allocation to the agenda can be found in document NP-000393.

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## **2. Items for External Attention**

### **2.1 For PCG Attention**

#### **2.1.1 Use of ETSI OID in BICC**

Liaison NP-000233 on the OID (Organizational Identifier) was discussed. Since there are problems with the allocation by the ITU of an organizational identifier to the 3GPP, it is requested that the ETSI OID be used to identify the codecs being used on BICC. This recommendation will be raised to the PCG since it is necessary to pick a single organizational identifier to allow interworking.

#### **2.1.2 External Liaisons**

The PCG will be asked to authorize the ability to liaison with OMG and JAIN (Needed by N5).

#### **2.1.3 ITU-T Coordination**

The ITU-T Ad-Hoc is currently only an editorial body which prepares output for delivery to the ITU-T (by whatever channels). The ToR should be updated to allow it to draft positions for approval at the CN plenary.

A GSC-6 Ad-Hoc is being considered for discussion of the relationship of ITU-T and the 3GPPs. This is currently in the Nov./Dec. timeframe. A request will be made to the PCG to allow the 3GPP to send a delegation (if invited). It will also be requested that the GSC-6 Ad-Hoc be moved to the January, 2001 timeframe to allow the TSG to formulate a position after any restructuring has occurred in the ITU-T.

### **2.2 For SA Attention**

#### **2.2.2 Terminology**

Consistent terminology for identifying the access technology (GERAN/UTRAN) and the network operating mode (2G vs 3G) should be decided across the TSGs. For the time being the CN terminology will use GSM/UMTS for differentiation.

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## **3 Work Items for R'99 and Earlier**

### **3.1 Camel Phase 2**

This work item is complete.

Various corrective CRs approved (NP-000240, NP-000241, NP-000242).

### **3.2 Camel Phase 3**

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000243, NP-000244, NP-000245, NP-000246, NP-000247, NP-000248, NP-000249, NP-000250, NP-000251, NP-000280, NP-000289)..

### **3.3 Security**

This work item is complete.

It was decided to delete the P-TMSI signature from the "Service Request" message to align with 23.060. However, there were concerns over the possible security implications of this removal. S3 is therefore requested to check this and if necessary request that the P-TMSI Signature be restored to both 23.060 and 24.008.

Support of GEA2 ciphering was approved for R'99 but not for R'98 (or R'97). It seems probable that the radio interface could be handled without backwards compatibility problems, however backwards compatibility problems may arise due to GTP and the mapping of this functionality to earlier versions of GTP. Since this implies a functional change and it was not supported by all manufacturers, this change was rejected for earlier releases. A liaison was sent to S3 informing them of the situation.

Various functional enhancement, corrective, and editorial CRs were approved. (NP-000273, NP-000295, NP-000326, NP-000373).

### **3.4 GSM Maintenance**

This work item is complete.

Various corrective CRs approved (NP-000226).

### **3.5 EDGE**

This work item is complete.

Various corrective CRs approved (NP-000279).

### **3.6 T.E.I**

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000229, NP-000258, NP-000368, NP-000370, NP-000371).

The CRs to introduce pentadecimal IMEIs were not approved. After much debate this was rejected since there was a functional change and multiple manufacturers objected. It was also felt that the ongoing work in IMEI reallocation could also relieve pressure on having enough IMEIs. A liaison (NP-000386) was sent to GSMA and EICTA asking for their input on an appropriate cutover date for permitting pentadecimal IMEIs and on progress of the IMEI restructuring work.

### **3.7 Multimedia**

This work item is complete.

Various functional/corrective CRs approved (NP-000227, NP-000271).

### **3.8 OoBTC**

This work item is complete (Note: scope was reduced). The assumption that negotiation is not needed in R'99 remains valid.

No CRs.

### **3.9 ASCI**

This work item is complete.

Various corrective CRs approved (NP-000287).

An SMG3 meeting was also held which approved CRs to ASCI R'99 (NP-000275) and ASCI R'00 (NP-000276). A R'00 ASCI work item was also approved (NP-000404).

### **3.10 Call Deflection**

This work item is complete.

Various corrective CRs approved (NP-000288).

### **3.11 CCBS**

This work item is complete.

Various corrective CRs approved (NP-000290).

### **3.12 CF Enhancements**

This work item is complete.

Various functional/corrective CRs approved (NP-000291).

### **3.13 GPRS**

This work item is complete.

Various functional/corrective CRs approved (NP-000269, NP-000318).

### **3.14 GTP Enhancements**

This work item is complete.

Various editorial/corrective CRs approved (NP-000292, NP-000376).

### **3.15 Handover**

This work item is complete.

Various corrective CRs approved (NP-000294).

### **3.16 GSM\_UMTS Interworking**

This work item is complete.

Various functional/corrective CRs approved (NP-000270).

The proposal to remove the Service Accept message was not approved. It was felt that there were inconsistent architectural requirements in 23.060 since it calls for layering independence while at the same time the Service Accept message was removed. One concern was the difficulty of making USIMless packet emergency calls without this message. Joint N1/S2 meetings are planned to further discuss this topic.

### **3.17 Location Services**

This work item is complete.

Various corrective CRs approved (NP-000296).

### **3.18 MNP**

This work item is complete.

Various functional CRs approved (NP-000297).

### **3.19 Multicall**

This work item is complete.

Various functional/editorial/corrective CRs approved (NP-000278, NP-000298).

### **3.20 QoS Enhancements**

This work item is complete.

Various functional/corrective CRs approved (NP-000272, NP-000299).

### **3.21 CS Bearers in UMTs**

This work item is complete.

Various functional/corrective CRs approved (NP-000223).

### **3.22 R99 service Clean-up**

This work item is complete.

Various corrective CRs approved (NP-000228).

### **3.23 OSA**

This work item is complete.

Specifications 3G TS 29.198, Open Services Architecture, Application Programming Interface - part 1 and TR 29.998, Open Services Architecture, Application Programming Interface - part 2 were approved and raised to version 3.0.0.

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## **4 Work Items for R'00**

### **4.1 Project Plan**

Coordination meetings between CN/S2 and CN/S3 have been held to provide input into the project plan. This input as well as input provided by N2 has been incorporated into the latest versions.

### **4.2 Call Control & Roaming**

The WIs L3 segmentation and turbocharger were deleted.

A WI on R'00 SIP-CC was reviewed but further work is needed. Two days during the August N1 will be allocated to SIP discussions.

A WI on emergency call enhancements in CS was approved (NP-000379). This allows for multiple emergency centers and recall of an emergency caller even for USIMless emergency calls.

A WI on emergency call enhancements in PS was approved (NP-000380). This will bring PS and VoIP up to the same level of emergency call functionality as the CS domain (including support of multiple emergency centers and recall of an emergency caller even for USIMless emergency calls).

A WI on Service Modification without pre-notification was approved (NP-000381): This allows for switching between services over at least ISUP and BICC.

The specification 3G TS 23.146 v2.0.0 Real time NT facsimile was completed and raised to version 4.0.0. CRs associated with this change were also approved (NP-000382). Some R'99 cleanup may still be required to remove inadvertent changes already introduced.

### **4.3 CODECS**

TrFO workshops are continuing in this area. The next workshop is planned in conjunction with the N4 meeting on July 18.

### **4.4 Service Platforms**

3G TR 21.978 Feasibility Study Report - CAMEL Control of VoIP was approved and raised to v3.0.0. Note that although it addresses VoIP, it is a R'99 report and not intended to be carried forward to R'00.

### **4.5 Security**

The MAP CRs related to MAP layer 3 security were approved (NP-000327). This implies that 29.002 will migrate to v4.0.0. This completes the R'00 WI: CN Security: Minimal Solution.

Note that securing of other network interfaces is covered under the R'00 WI: CN Security: Full Solution. Key management is also covered under a separate WI.

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## **5 Work organization**

### **5.1 CN/S2 Worksplit**

Workshops have been held between CN and S2 on work item planning. This has allowed updating of the project plan and discussion of work split. It has been agreed between CN and S2 that N4 will take responsibility for the stage 2 work for the separation of control and bearer in the CS domain (H.248). N3 will be responsible for determining the parameter values. S2 will be responsible for a feasibility study (with N4 involvement) of the separation of control and bearer in the PS domain. The responsibility for the actual work (subsequent to the feasibility study) is to be determined.

A worksplit has also been agreed between S2 and N5 for the VHE work. S2 will be responsible for the VHE architectural work while N5 will cover all aspects of the OSI API.

## 5.2 ToRs

ToRs have been approved for N2 (NP-000363) and N5 (NP-000305). ToRs for N3 and N4 were reviewed and have been referred back to the working groups for further updates. The ToR for CN will be discussed electronically for decision in CN#9.

## 5.3 R'00 Timeframes

In response to the BT contribution on R'00 scope (NP-000328) estimates were made on the amount of time CN would take to complete any required protocol work once any dependencies were fulfilled. The following table shows the estimates. It should be noted that these numbers are very speculative given that in most cases WIDs do not yet exist.

Work Item Title	Resp	WI Status	Depend ency	Delta
SIP CC in CN	N1	Approval CN#9	S2	9-15
Emergency calls enhancements for CS	N1	Approved CN#8	S1	3-9
Emergency calls for PS & IM subsystem	N1	Approved CN#8	S2	9-15
RT Fax	N3	Approved CN#3		0
CS Multimedia Swap & Fallback	N3	Approved CN#7		6-9
Service Modification without prenotification	N3	Approved CN#8		3-9
Interworking between IM subsystem & CS	N3	Approval CN#9	S2	9-15
Interworking between IM subsystem & IP	N3	Approval CN#?	S2	9-15
Control & Bearer Separation in CS	S2	Approved SA#?		6-12
Subscriber Data Mgmt in IM subsystem	N4	Approval CN#?	S2	6-15
OSA R'00	S1	Approval SA#8	S1	9-15
Core network security: minimal solution	S3	Approval SA#8		3
Core network security: full solution	S3	Approval SA#8	S3	6-15
Key management	S3	Approval SA#8	S3	6-9
TrFO	S4	Approved SA#?	S2/S4	9-15
QoS for HO for GPRS	S2	? – F/BB/WT	S2	6-12
New feature to be added for CAMEL phase 4	S1	? – F/BB/WT	S1	12-18

This will be revisited at CN#9 after review by the WGs.

## 5.4 Working Methods / Style

Electronic decisions were discussed in an informal session on Thursday. Although it was recognized that e-decisions are a useful tool, it is difficult to actually use them to an advantage due to the timeframe required for the decisions.

No hard and fast rules should be specified but the only use where they seem to add efficiency to the process is in using them for follow-up decisions after a TSG meeting. Note that these discussions involve the use of e-decisions at the TSG level and not at the WG level.

There was a general endorsement of the RAN proposal (NP-000384) to prohibit functional modifications to R'99. In general there was concern with limiting corrections to R'99 at this point in time.