

**Third Generation Partnership Project**

**DRAFT STATUS REPORT v0.0.1**

**3GPP TSG-CN#13**

Beijing, China  
19<sup>th</sup> – 21<sup>st</sup> September, 2001



Hosted by Lucent

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## 1 Opening of the meeting

Nigel Berry welcomed the delegates to China on behalf of the hosts, Lucent. The meeting was chaired by Mr. Stephen Hayes, (Chair, Ericsson). Additional support was provided by Mr. Ian Park (Vice-Chair, Vodafone), Mr. Kunihiro Taya (Vice-Chair, NEC), and Mr. David Boswarthick (CN Secretary, MCC).

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## 2 Approval of Agenda

The agenda was approved (NP-010405).

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## 3 IPR Declarations

The Chair reminded the Individual Members and the persons making the technical proposals about their obligations under their respective Organizational Partners' IPR Policy. No responses were received.

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## 4 Items for External Attention

### 4.1 For SA Attention

#### 4.1.1 DSR

The proposal for the DSR work was discussed (NP-010415). This was referred to CN1 to investigate the SIP and SDP impacts. It was noted that if the impacts turn out to be significant, then there is a risk that they will not be finished in time for Release 5.

The IMS Framework report was reviewed (NP-010423, NP-010424, NP-010425). The effort seemed to have merit although it is a bit late for Release 5. Given the time schedule, any new requirements unearthed by the validation analysis could almost certainly not be dealt with until Release 6.

Mobile Number Portability (MNP) for IMS was removed from Release 5. There has been no activity and there are no requirements to guide the work in CN. If this can be further defined then it could be included in later releases.

Shared InterWorking Function (SIWF) has been removed from the Release 4 specifications, but there are still numerous references to this specification. To reinstate the specification would require considerable work since it is out of date. There seemed to be no interest in this function. After discussions of the best way to keep consistency while minimizing the impacts and work to be done, it was agreed to remove SIWF from Release 99 and onwards. A liaison (NP-010526 / SP-010526) was drafted informing other WGs of CN's intention to remove the function.

A WID for AMR-WB was created. This includes only the CN aspects. Service requirements are needed, particularly in the area of interworking with external networks. Other work outside of CN is required. A liaison (NP-010526 / SP-010526) was drafted informing other WGs of CN's intention to remove the function.

IETF dependencies are increasing, particularly in the SIP/SDP area. The CN groups are shifting their focus to creating IETF drafts containing requirements to motivate the protocol work. The protocol work shall be done in IETF. In general there are also still considerable CN dependencies upon ongoing work in SA2 and SA3.

The building block "UE triggered authentication" (owned by SA3) should be deleted as the deletion was agreed in previous meetings and CN is not working on this item.

A new WID for Service Change and UDI Fallback was approved. The scope of this work item is both BICC and ISUP (NP-010527).

A joint meeting on M3UA/SUA selection will be held between CN4 experts and RAN3 experts. The scope of the meeting is to try and evaluate both homogeneous and mixed M3UA/SUA solutions between CN and RAN. If consensus on a solution in the RAN cannot be reached, the meeting needs to provide advantages

and drawbacks which can be used as a basis for the TSGs to make decisions. The meeting is scheduled for November 7-8, 2002. Location and chair tbd.

## **4.2 Items for PCG Attention**

### **4.2.1 CN Harmonization**

The OHG has requested that the 3GPPs harmonize their all-IP networks. A response has been sent from 3GPP and 3GPP2 indicating support of a harmonization workshop, but a desire not to delay the ongoing IMS work. A workshop is in proposed for some time in Q1, 2002.

### **4.2.2 ITU-T Deliverable preparation**

Preparation of deliverables intended for the ITU detracts from time spent dealing with technical issues; it would be nice to minimize this work. The PCG is encouraged to consider ways of streamlining the 3GPP processes for interworking with the ITU.

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## **5 Miscellaneous Issues**

### **5.1 ITU Coordination**

TSG-CN reviewed the CN specifications that ITU-R planned to send to ITU-R (NP-010517). CN concurred with this list.

Furthermore, CN has agreed with the need for tighter coordination with the ITU-R coordination ad-hoc as proposed in NP-010518. This includes coordination between the ITU-R coordination ad-hoc and the ITU-T coordination ad-hoc to synchronize deliverables. This synchronization will begin with the next set of deliverables to either the ITU-R or ITU-T. In addition, CN supported the inclusion of TRs in the list when they represented reference documents that were intended to be published. Since CN has so far only formally received a request from ITU-T for the Release '99 specs, it was not felt necessary at this time to recommend to ITU-T that they incorporate the Release 4 and Release 5 specifications.

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## **6 Release '99 and earlier Work items**

### **6.1 CAMEL Phase 2**

The proper protocol handling of SendChargingInfo (SCI) with AoC parameters when the MSC doesn't support AoC was discussed. The controversy centres on whether it is appropriate to send an error response or whether the offending parameters should be ignored. Responding with an error can cause the SCI dialogue to fail. There was consensus that this was a critical problem and thus justifies the drafting of an essential correction. CN2 was instructed to work on a solution over the next two working group meetings and have CRs correcting this problem ready for CN#14. The problem should also be solved for subsequent phases of CAMEL.

### **6.2 CAMEL Phase 3**

The CRs in NP-010447, NP-010448, and NP-010451 were approved.

### **6.3 EDGE**

The CRs in NP-0490 were approved.

### **6.4 GPRS**

The CRs in NP-010491, NP-010492, NP-010493, and NP-010530 were approved.

### **6.5 GTP Enhancements**

The CRs in NP-010453 and NP-010454 were approved.

### **6.6 Handover**

The CRs in NP-010476 and NP-010495 were approved.

The issue of priorities for multicall handover has still not been resolved. An attempt to resolve this at the WG level through voting was unsuccessful since there was not a large enough (71%) majority for either solution. Efforts are under way between the interested companies to forge a compromise. The companies working out this compromise are encouraged to do so offline and bring a mutually agreeable solution into CN1 and CN4. Further discussion of this in the WGs before such a compromise is reached is discouraged.

## **6.7 GSM-UMTS interworking**

The CRs in NP-010494 were approved.

## **6.8 CS Bearers in UMTS**

The CRs in NP-010438 were approved.

## **6.9 TEI**

The CRs in NP-010458 and NP-010496 were approved.

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# **7 Release 4**

## **7.1 Enable bearer independent CS architecture**

The CRs in NP-010439 and NP-010452 were approved.

## **7.2 OSA Enhancements**

The CRs in NP-010464, NP-010465, NP-010466, NP-010467, NP-010468, NP-010470, NP-010471, NP-010472, NP-010473, NP-010474, and NP-010520 were approved.

## **7.3 Transcoder Free Operation**

The CRs in NP-010457 and NP-010532 were approved.

## **7.4 Tandem Free aspects for 3G and between 2G and 3G systems**

The CRs in NP-010533 were approved.

## **7.5 Location Service enhancements**

The CRs in NP-010455 were approved.

## **7.6 Security enhancements**

The CRs in NP-010456 were approved.

## **7.7 TEI\_4**

The CRs in NP-010459 and NP-010498 were approved.

Dangling references to the Shared Interworking Function (SIWF) were discussed. As no company expressed any interest in retaining the feature and it would take significant work to specify it in Release 4 and afterwards, it was agreed to remove it. After discussion on how to minimize the work involved and still have a consistent set of specifications, it was agreed to delete it from R'99 and onwards. A liaison (NP-010526) was drafted informing other WGs of CN's intention to remove the function.

## **7.8 Release Marker for GERAN**

The GERAN proposal to include a release marker was discussed. It was agreed that it was acceptable to have an extension field indicating a protocol version, but that the field should not be used to indicate the feature set supported by a terminal. A liaison was drafted to GERAN requesting confirmation that the intention was to indicate the protocol version (NP-010534). It was not determined where there was to be a single extension field indicating for both 24.008 and 44.018 or separate fields for both protocols.

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## **8 Release 5**

### **8.1 Provisioning of IP Multimedia Services (IMS)**

Revisions of the WIDs for Interworking between IMS and IP networks (NP-010434), Interworking between IMS and CS networks (NP-010435), and SIP CC protocol for IMS (NP-010489) were all approved. All WIs had been updated to show a new completion date of March 2002. The SIP CC protocol for IMS also contained new IETF dependencies.

### **8.2 OSA Enhancements**

A WID for the release 5 OSA work was approved (NP-010535).

### **8.3 CAMEL Phase 4**

The revised WID for Camel Phase 4 was approved (NP-010536). The WID reflects a 3 month slip (to March 2002) and additions to the scope.

The CRs in NP-010511 were conditionally approved (introduction of SMS reference to CAMEL 4). There was considerable discussion since introduction of the SMS reference number into CAMEL 4 requires changes to Release 99 and Release 4 specifications due to the way CAMEL is specified. The CRs are approved if no objections are received on the CN list by September 28, 2002 (17:00 CET). If objections are received then the CRs go back to CN2 for discussion.

### **8.4 Wideband Telephony Service – AMR**

A WID for AMR-WB work within CN was approved (NP-010538). There was concern that the requirements for AMR-WB had not been adequately specified prior to starting this work. To ensure that system aspects and other work need for the complete introduction of AMR-WB is done, a liaison was drafted to the WGs informing them that CN was starting work on AMR-WB (NP-010539).

### **8.5 End to End QoS**

A WID for End to End QoS was approved (NP-010528).

### **8.6 Service Change and UDI Fallback**

A WID for Service Change and UDI Fallback was approved (NP-010527). It was agreed that the scope of this work item includes both BICC and ISUP.

### **8.7 Feasibility study on SS7 signalling transportation in the CN with SUA**

A revision of the SUA WID was approved (NP-010460). This shows a 3 month slip of the report to December 2002. In preparation for the meeting described below, the feasibility report and its status should be distributed on the CN mailing list subsequent to the October CN4 meeting.

In response to a liaison from RAN it was agreed to hold a joint meeting between CN4 experts and RAN3 experts. The scope of the meeting is to try and evaluate both homogeneous and mixed M3UA/SUA solutions between CN and RAN. If consensus on a solution in the RAN cannot be reached, the meeting may need to provide advantages and drawbacks which can be used as a basis for the TSGs to make decisions. The meeting is scheduled for November 7-8, 2002. Location and chair tbd.

### **8.8 TEI\_5**

The CRs in NP-010499 were approved.

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## **9 Work Organization**

A joint meeting of CN4 and RAN3 experts will be organized to progress the SUA work. See 8.7 for a discussion of the scope of the meeting.

It is desirable to reduce the meeting time devoted to ITU-T issues. The bulk of the ITU-T facing work should be done in the ITU-T coordination Ad-Hoc, but some plenary time will still be consumed. The chair will raise this issue to the PCG to see if they can find a way to reduce the overhead required for interfacing with the ITU. One possibility might be to combine the ITU-R coordination ad-hoc and the ITU-T coordination ad-hoc.

Various specification and status lists produced by the MCC were reviewed and noted (NP-010478, NP-010479, NP-010480, NP-010481, NP-010482, NP-010483, NP-010484, and NP-010485). Several corrections to these lists were identified and will be incorporated into the versions of these specifications before their presentation at TSG-SA. In particular it was decided that 04.08 (and 44.008) should be reinstated for Release 99 and Release 4. Rapporteurs in CN should correct all references to 04.08 to point to 24.008 or 44.018 as appropriate. It was noted that there is a general Release 4 problem of specification references not being updated to reflect the 3GPP document numbering scheme (e.g. dangling references to 09.02 instead of 29.002).

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## **10 Work plan**

The latest version of the workplan was reviewed (NP-010411, NP-010412, NP-010508). Various updates and errors were identified including:

- MNP for the IMS should be removed
- Network Capabilities (N1 & N4) should be removed
- IMS emergency calls cannot be completed before regular calls
- AMR WB needs to be updated based upon the new WID
- UE triggered authentication should be removed
- Missing IETF dependencies were added
- Various end dates were changed

The MCC will incorporate these changes in the next version of the workplan.

The phasing of IMS was discussed. An attempt to identify what parts of IMS were splittable (NP-010509) was abandoned as it is difficult to define what is the minimal set of IMS functionality that makes sense.

In the end, it was agreed that CN supports the following principles:

- Release 5 targeted for March 2002
- Splitting off parts of IMS into release 6 (or beyond) to ensure that release 5 can be completed in a timely manner
- Discouraging new work items that would impact release 5.

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## **11 Close of Meeting**

The meeting was adjourned 13:00 on Friday, September 21, 2001.

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**ANNEX A:OUTPUT MATERIAL****A.1 Liaisons Approved to be sent following TSG CN meeting #13**

<b>TDoc #</b>	<b>Tdoc Title</b>	<b>LS to</b>	<b>LS cc</b>	<b>LS Attachment</b>
NP-010xxx				

**A.2 New TSs /TRs Approved at TSG CN meeting #13**

<b>TDoc #</b>	<b>Type</b>	<b>Spec</b>	<b>N_Version</b>	<b>Tdoc Title</b>	<b>Source</b>
NP-010xxx					

**A.3 New / Revised Work Items Approved at TSG CN meeting #13**

<b>TDoc #</b>	<b>Tdoc Title</b>	<b>Source</b>
NP-010xxx		

**A.4 CRs Approved at TSG CN meeting #13**

Tdoc	Status	Spec	C Ver	CR	Rev	Cat	Phase	Subject	WG	WG tdoc	Workitem	Remarks

**A.5 CRs Not Approved at TSG CN meeting #13**

Tdoc	Status	Spec	C_Ver	CR	Rev	Cat	Phase	Subject	WG	WG tdoc	Workitem	Remarks

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**ANNEX B Decisions/Notes on Tdocs by Agenda Item**

Status	Agenda	TDoc #	Origina	Type	Tdoc Title	Source	Discussion

## ANNEX C. TSG CN meeting #13 Participants List

	<i>Person's</i>	<i>name:</i>	<i>Email</i>	<i>Organisation name</i>	<i>Status</i>	<i>Partner</i>	<i>Country</i>
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## History

<b>Document History</b>	
	DRAFT v0.2.0 Presented to TSG-SA#13 (SP-010xxx)
	DRAFT v1.0.0 send to TSG_CN Officials for comments
	<p>DRAFT v1.1.0 dispatched to the TSG-CN mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. David Boswarthick, 3GPP TSG CN MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 E-mail: david.boswarthick@ETSI.fr</p> <p>A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.</p> <p style="text-align: center;"><b>E-mail comments back by</b></p>
	<i>Final v2.0.0 approved at TSG#14 Meeting in Japan – Made version 3.0.0 and placed to server as the official meeting report.</i>