Third Generation Partnership Project

MEETING REPORT v3.0.0

3GPP TSG-CN / ETSI SMG3
Meeting #7

Madrid, Spain
13th - 15th March 2000

Telefónica

Hosted by TELEFÓNICA MÓVILES

Chairman: **Harald Dettner, Siemens AG.** Harald.dettner@icn.siemens.de

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1 Opening of the Meeting

The 7th TSG_CN Plenary meeting took place from 13th to the 15th of March in Madrid hosted by TELEFÓNICA MÓVILES.

Mr. Luis Lopez Van Damm, general manager of TELEFÓNICA Intercontinental welcomed the TSG_CN delegates to the Madrid on behalf of TELEFÓNICA MÓVILES and explained the logistical details for the remainder of the week.

The CN Plenary was held at the same time as the Terminal and RAN Plenaries, and was directly followed on the Wednesday by the SA Plenary meeting.

The CN Chairman, Mr. Harald Dettner welcome the delegates and opened the meeting at 09:00 on Monday 13th March.

2 Approval of the Agenda

The meeting agenda is available on the 3GPP server at the following location:
ftp://ftp.3gpp.org/TSG_CN/TSG_CN/TSGN_07/Agenda/

NP-000132: **Rev. Draft Meeting Agenda.**

CONTENT: The document contains the revised Agenda, and additional allocation of Tdocs to agenda items.

DISCUSSION: At the beginning of meeting the allocation of tdocs was revisited, and modifications made for new documents, and mis-allocated documents. This is reflected in the structure of this meeting report, but the agenda document itself was not REVISED.

Also it was decided to take contentious issues out of the Work group discussions, and deal with them globally in a separate section.

RESULT: The Agenda was **AGREED**

3 Approval of the TSG_CN#6 Meeting Report from Nice

The CN#6 meeting report is available on the 3GPP server at the following location:

ftp://ftp.3gpp.org/TSG_CN/TSG_CN/TSGN_06/Report/

NP-000018: **Revised CN#6 Meeting Report from the Nice meeting.**

CONTENT: The document contains the Draft CN#6 meeting report. The report was completed and distributed by the MCC at the end of the meeting. There was the usual 2-week deadline for comments by e-mail, and these comments have been integrated in this revised meeting report v2.1.1 presented in this document.

RESULT: The meeting report was **APPROVED and is placed to the FTP server as the final report v3.0.0.**

4 Letters / Reports from other groups and Urgent Issues

4.1 TSG_CN Working Groups

NP-000029: **LS from N1 on Access signaling and mobile station behavior for Multicall.** Presented by Hannu, N1 chairman.

CONTENT: LS from N1 to N2, and copied to N Plenary for information only

RESULT: The document was **NOTED**

NP-000030: **LS on Open Items identified by the CN All IP Ad Hoc.** Presented by Hannu.

RESULT: The document was **NOTED - FORWARDED for consideration to CN/S2 All IP Workshop**

NP-000038: **LS from N1 on the status of Multicall.** Presented by Naoki Tani of NTT DoCoMo.

CONTENT: CN WG1 discussed the remaining open issues identified by the Multicall Adhoc (17-18, Feb. 2000) at its #11 meeting (28th Feb. – 3rd Mar. 2000).

CN WG1 conclude that all remaining open issues related to CN WG1 were solved.

RESULT: The document was **NOTED**

4.2   Other 3GPP TS Groups

NP-000020: **LS from S3 on MAP Security.**

CONTENT: Contains a LS from S3 on MAP Security.

DISCUSSION: **Note**; no one was available to present the document. However it can be noted that this LS has already been handled by N2.

✍✍ **Harald reminded the delegates that incoming LSs to TSG N should have someone to present them.**

RESULT: The document was **NOTED**

NP-000039: **LS from S3 on MAP Security.**

RESULT: The document was **WITHDRAWN DUPLICATE OF NP-000020**

NP-000040: **LS from S3 - Statement on security issues in VHE/OSA.**

CONTENT: S3 would like to point out that the Home Environment provides services to the user in a managed way, possibly by collaborating with HE-VASPs, but this is transparent to the user. The same service could be provided by more than one HE-VASP and HE-VASP can provide more than one service.

Additionally, but not subject to standardisation, the user may access services directly from Value Added Service Providers. The Home Environment does not manage services obtained directly from VASPs. A mechanism may be provided which allows the user to automate access to those services obtained directly from VASPs and personalise those services. However such a mechanism is outside of the scope of this specification. Here a HE-VASP denotes a Home Environment Value Added Service Provider. This is a VASP that has an agreement with the Home Environment to provide services.'

S3 has the following final comments:-

1. Secure UA to Application End-to-End authorization is an issue between UA and application and as such transparent for OSA.

2. Secure User Authorization to the Application via secure access to User Profile Data, (to verify that the User has subscription rights to specific applications) VHE/OSA allows applications to be registered and made available to users. Once the user selects an application (made available through VHE) it can be assumed by the application that the user has the right to subscribe to the application.

3. The transfer of a Secure User Identity (and possibly signature) to the application, to ensure that the Application can secure access to the Appropriate internal data store at the Application/Application Server. The UMTS network will authenticate a user and a secure user identity is available. Since VHE is a mechanism to provide application to user authenticated in the UMTS network, it can be assumed that the user identity used in the UMTS network can be used as a secure user identity for application as well. So it will be a simple matter of transferring this identity to the application.

DISCUSSION: **Note:** no one was available to present the document.

RESULT: The document was **NOTED.**

NP-000054: **A mechanism for reporting authentication failures from VLR/SGSN to HLR.**

DISCUSSION: In this document S3 informs N2 that a new mechanism for reporting authentication failure from VLR/SGSN to HLR is being specified in TS 33.102.

The mechanism itself is quite simple and only consists of an authentication failure report from VLR or SGSN to HLR. HLR will then acknowledge the authentication failure report.

The authentication failure report will need to contain the user identity (IMSI) and a failure cause code information element. The only two codes identified so far is:

- wrong network signature

- wrong user response

This LS has already been seen by N2, and the CRs have been drafted and are presented to CN#7 for approval.

RESULT: The document was **NOTED.**

4.3   Others

NP-000019: **LS from SPAN 5 SWG 1A on Transport mechanisms for the Generic Addressing and Transport (GAT) protocol.**

CONTENT: ETSI SPAN5 SWG1A is developing the specification of the Generic Addressing and Transport (GAT) protocol, in parallel with similar activities of ITU-T Study Group 11 Q.11.

This document contains the "Benefits and capabilities of the GAT protocol" provides further information, as well as The latest ITU-T draft of the GAT protocol specification is also attached. ETSI SPAN 5 SWG 1A intend to approve an EN with the same technical content soon.

The GAT protocol provides a signaling system independent layer. To use the GAT protocol in the domain of a specific signaling system, transport mechanisms of that signaling system must be available.

SPAN 5 SWG 1A asks:- ***Do you intend to develop a standard endorsing the GAT protocol and providing transport mechanisms for the signaling system you are responsible for? If yes, in which timeframe?***

DISCUSSION: As no one was not available to present the document, the LS was simply noted.

RESULT: The document was **NOTED.**

NP-000115: **LS from GMS NA on all IP issues.**

DISCUSSION: Already seen at the CN all IP ad hoc meeting

RESULT: The document was **NOTED.**

NP-000121: **LS from GSMA ISG activity on Typical Radio Parameter sets.** Presented by Masami, who is also the conveyor for this group

CONTENT: GSMA ISG has produced a "Typical Radio Parameter sets" document, which describes the parameters preferred by operators to ensure interoperability. These parameters are chosen within the range specified in 3GPP specifications and will not give any impact on the 3GPP core specifications but it is strongly recommended that the 3GPP testing specifications will be produced assuming that operators use mainly the parameters in the document.

DISCUSSION: The content of the document is destined to RAN and copied to CN only for information.

RESULT: The document was **NOTED.**

NP-000122:	**LS on Typical Radio Parameter Sets Document submission from GSM Association - IMT-2000 Steering Group (ISG).** Presented by Masami, who is also the conveyor for this group
DISCUSSION:	Contains additional support information for NP-000121.
RESULT:	The document was **NOTED.**

5 Reports from TSG_CN Working Groups

5.1 TSG_CN WG1 (N1)

5.1.1 Report from N1

NP-000081:	**N1 Status Report.** Presented by Hannu, N1 Chairman.
CONTENT:	This report summarizes the progress of TSGN1 on the work items which have been active in the working group since TSGN plenary meeting #6. More detailed meeting reports are available on the 3GPP server and they are also provided to this meeting in Tdoc NP-000105 (Abiko) and NP-000106 (Umeå). Additionally an estimate of R2000 work is given in section 4.4 of this document.
DISCUSSION:	There were comments made on the TCC proposal relating to Shift lock and Line identity that has been presented to N1. This introduces regional variations to the global 3GPP standards.
	Input for this work should be brought to 3GPP Plenaries by interested companies or regions.
	Note: CLI service enhancements have been made for the fixed network in SPAN, it is possible that 3GPP also use this material.
	(See also discussion to td's 171 & 179 for SS-ad hoc)
	Harald proposes that interested parties present contributions for this work. Also there should be an input made to the TSG_SA plenary, indicating that this TCC work is desired for inclusion.
RESULT:	The document was **NOTED.**

NP-000104:	**Liaison Statements agreed in CN 1 since CN#6**
RESULT:	The document was **NOTED**

NP-000105:	**CN1 #10 Meeting Report**
RESULT:	The document was **NOTED**

NP-000106:	**CN1 #11 Meeting Report**
RESULT:	The document was **NOTED**

NP-000084:	**Release 1999 Submission form for MULTICALL** Presented by Hannu.
CONTENT:	The document contains the Release 1999 Submission form for MULTICALL that has been updated to reflect the progress made in this area.
DISCUSSION:	**TSGN1 consider that the work on MULTICALL is complete.**
	There has been active discussion between TSGN1 and the other groups since TSGN #6 in order to finalise the multicall work item for R99. The work in TSGN1 has been coordinated using an open item list and all of the items on the list have now been

covered either with a CR or in some cases with a reference to a decision meaning that no action is required by TSGN1.

TSGN1 provides its part of the multicall CRs for plenary approval in tdoc NP-000095.

RESULT: The document was **ENDORSED.**

NP-000088:   **Release 1999 Submission form for Multimedia.** Presented by Hannu.

CONTENT: **TSGN1 task on the WI is complete**. All main N1 working assumptions have been collected in Multimedia TR 23.972. An earlier version of the TR in tdoc NP-000103 was provided for the TSGN #6 for information. It has been updated since then and now TSGN1 forwards 23.972 to TSGN plenary for approval asking for it to be raised to version 3.0 and to be frozen as part of R99.

TSGN1 provides its part of the multimedia CRs for plenary approval in tdoc NP-000096.

DISCUSSION: The message from this document is that for N1, Multicall for R99 is complete.

Note: N3 has not been informed whether this was a GSM and/or UMTS Work Item – However this is not contentious for N3.

   ✍✍ **CN Plenary agrees that Multimedia call is applicable for GSM AND UMTS**

Following this decision, the N1 CRs can be approved.

RESULT: The document was **ENDORSED.**

NP-000086:   **Release 1999 Submission form for GSM-UMTS interworking and MM for UMTS.** Presented by Hannu, N1 Chairman.

CONTENT: Contains the W.I sheet for R99, GSM-UMTS interworking and MM for UMTS

DISCUSSION: **TSGN1 task on the WI is complete.** Also with this work item an open item list was given as the task list for TSGN1 to complete by TSGN #7 plenary. All of the issues plus one additional open item which was identified after TSGN #6 have now been covered either by a CR or a decision meaning that no TSGN1 action is needed.

The problem with 23.009 still remains, TSGN1 is not confident to be the only reviewer of the proposed changes but would also like to ask for TSG-N2 comments before final endorsement. There is also a practical problem with the SDL diagrams which make far too large files to be handled in a practical way and also the format used by the tool causes problems. The files seem to be either unreadable (.doc) or impossible to update (.pdf). Also the meeting secretary indicated a problem with implementing the CRs due to not having the original SDL files available.

Because of the size of the files it is not feasible to ask the secretary to redraw the diagrams from paper or .pdf format.

It was noted that the original SDL source files for 23.009 cannot be found either by ERICSSON or within the archives of ETSI. **The CRs are presented without the SDLs, and ERICSSON propose to produce this once the CRs are approved.**

Ian Park retrieved the SDLs for GSM Phase 2 from his hard disk during the meeting.

The related CRs for GSM – UMTS interworking CRs are provided for plenary approval in tdoc **NP-000092** and **NP-000093**.

RESULT: The document was **ENDORSED.**

NP-000082:   **TSGN1 Terms of Reference.** Presented by Hannu.

CONTENT: This document describes the agreed guidelines for 3GPP TSG-N1 work. It is intended to list the agreed meeting practices in TSG-N1 regular meetings and ad-hoc meetings that may be organised by TSG-N1. The original document was agreed in TSGN #2 in Fort Lauderdale. This should be a living document which can be updated as necessary when new procedures need to be introduced or the existing ones need to be revised.

RESULT: The document was **APPROVED**

NP-000083:   **Release 1999 Submission form for Security.** Presented by Hannu.

CONTENT: Contains the R99 Status Sheet on Security from N1.

- ??   **Authentication failure of the network by the MS**
- ??   **Integrity protection of emergency calls**
- ??   **Encrypted IMSI**
- ??   **USIM triggered re-authentication**

DISCUSSION: N1 recommends that Authentication failure of the network by the MS, and Integrity protection of emergency calls be retained for R99.

    ✍✍   **CN Plenary Supports that Authentication failure of the network by the MS, and Integrity protection of emergency calls be retained for R99.**

    N1 recommends that USIM triggered re-authentication be moved to R00.

    ✍✍   **CN Plenary supports that USIM triggered re-authentication be moved to R00**

RESULT: The document was **ENDORSED.**

NP-000087:   **Release 1999 Submission form for QoS** Presented by Hannu.

CONTENT: Three open items were identified in TSGN #6, the length of TFT, default values for unused code points in QoS IE and mapping between R98 and R99 QoS.

    TSGN1 has agreed CRs to cover the two former issues and S2 have done the third one. So there are no more open items and TSGN1 reports its work on this WI completed for R99. TSGN1 work item status is in tdoc NP-000087.

    The QoS related CRs are provided for plenary approval in tdoc NP-000099.

RESULT: The document was **ENDORSED**

5.1.2   Questions for Advice and Decisions from N1

NP-000081:   **Elements requiring guidance from CN Plenary from the N1 Status Report.**

    ✍✍   **CN endorse the transfer of 04.02 to 24.002**

    NOTE: Nokia will make a proposal on the extension of IMEI numbers, either by extending the number of bits, of coding in Hex as opposed to binary coding.

    03.01 is under N1 responsibility has no R99 equivalent and this has to be transferred to SA2. How to proceed

    ✍✍   **CN Plenary agree to the transfer of 03.01 to SA2**

    ✍✍   **S2 are to be informed and the specification database must reflect this change.**

5.1.3 Approval of Contributions from N1

NP-000089: **CRs on ASCI.**

RESULT: All were **APPROVED**

NP-000090: **CRs to EDGE.**

RESULT: All CRs were **APPROVED**

NP-000091: **CRs on GPRS.**

RESULT: All CRs were **APPROVED**

NP-000092: **CRs on GSM-UMTS Interworking (Part 1).**

RESULT: All CRs were **APPROVED**

NP-000093: **CRs on GSM-UMTS Interworking (Part 2).**

RESULT: All CRs were **APPROVED**

NP-000094: **CRs on MS Classmark.**

DISCUSSION: CR A987 should be changed Cat A.

RESULT: All CRs were **APPROVED**

NP-000095: **CRs on Multicall**

DISCUSSION: Peter Kobringer (Ericsson) objected to the CR 002 to 23.009. This version of the CR is a later one that the one discussed during the N1 meeting. However it has been sent to the N1 reflector. It is to this latest version that Ericsson have objections. Objections are on the subject of inter-MSC handover issues and supporting/non-supporting MSC. Potentially impact on non-supporting MSC is imposed.

RESULT: All CR except the CR 002 to 23.009 were **APPROVED**

The CR to 23.009CR002 is **NOT APPROVED** and is referenced back to N1/N2 for revision.

NP-000096: **CR to 24.008 on Multimedia.**

CONTENT: The document does not include all of the revision marks.

RESULT: The CR was **APPROVED**

NP-000186 – CR to 24.008 on Multimedia.

CONTENT: includes the revision marks that provide additional clarity for the editing team to the CR in NP-000096.

RESULT: The CR was **APPROVED**

NP-000097: **CRs to Work Item NITZ.**

DISCUSSION: 1st CR has incorrect CAT.

RESULT: All CRs were **APPROVED**

NP-000098: **CRs to 3G Work Item Out of Band Transcoder.**

DISCUSSION: All CRs are for basic CODEC selection, and hence not open issues.

The CR in N1-00422 was not approved by N1 for presentation to Plenary.

RESULT: All CRs except **23.108 CR003** were **APPROVED**

23.108 CR003 is **NOT-APPROVED** and is referred back to N1 for further study.

NP-000099: **CRs to 3G Work Item QoS**

RESULT: All CRs were **APPROVED**

NP-000100: **CRs to 3G Work Item Security**

DISCUSSION: **24.008 CR118** is removed from the package and presented separately **(NP-000157)**

The Package contains no CRs to contentious issues with regard to open issues to be clarified by S3

RESULT: All CRs were **APPROVED EXCEPT 24.008 CR 118r3**

24.008 CR 118r3 is **REVISED to NP-000157**

? Part REVISED ?

NP-000157: **24.008 CR118r4 on Integrity checking of MM and GMM messages.** Presented by Ian Park of Vodafone Airtouch.

CONTENT: Contains the revised **24.008 CR118r4** taken out of the package of Security CRs in **NP-000100**

RESULT: The CR was **APPROVED**

NP-000101: **CRs to 3G Work Item TEI**

RESULT: All CRs were **APPROVED**

NP-000103: **TR on Multimedia v1.0.0**

CONTENTS: This document contains Multimedia report TR23.972 V1.0.0, that have been agreed by TSG_N WG1, and is forwarded to TSG_N Plenary meeting #7 for approval.

DISCUSSION: Version 1.0.0 has already been presented and this must be revised to v2.0.0

✍✍ **Note: When a TR/TS is intended for approval to v3.0.0, it should be presented to TSG_N as a version 2.x.x.**

RESULT: The TR is **APPROVED to be upgraded to v3.0.0.**

NP-000130: **CRs for ASCI to 04.08.** Presented by Ansgar Bergman.

CONTENT: The document contains CRs to 04.08/24.008 for ASCI. The ASCI rapporteurs have discovered that several change requests have to be urgently approved in order to move the NOTIFICATION RESPONSE message from the MM sub-layer to the GSM RR sub-layer.

The MM related CRs to 24.008 and 04.08 are presented to CN#7 /SMG3 for approval

DISCUSSION: **Mikko** mentioned the requirement of more time to study the CRs. These CRs also have to be seen by SMG2.

Ian Park suggested E-mail approval with a closing date for comments of 31st March. Comments should be addressed to the CN exploder.

The CRs will also be sent to the N1 exploder for review.

RESULT: The CRs were put on **E-mail APPROVAL until 31st March.**

The CRs were subsequently approved without Comments

NP-000131: **CRs for ASCI to 04.08.**

CONTENTS: Contains a duplicate of NP-000130.

RESULT: The document was **WITHDRAWN.**

5.2   TSG_CN WG2 (N2)

5.2.1   Report from N2

NP-000126: **N2 Status Report to TSG_N#7.** Presented by Ian Park, N2 Chairman.

CONTENTS: This report can be regarded as an executive summary of the work of N2, N2A and N2B since the last N plenary meeting.

DISCUSSION: Question on the status of EUIC. Is it mandatory or optional? Ian clarified that it is mandatory in the visited network and optional on the home network. Yun-Chao Hu stated that this is not yet clearly defined in S3. The issue of EUIC was considered as contentious, and taken out of this section to in order to have a joint discussion with the other CN WGs.

N2 view that MAP Security principles are stable enough to be included in R99 for completion by TSG_N#8. However some parties express that there needs to be some more work. No CRs are available at that point of time.

RESULT: The document was **NOTED**

NP-000159: **Request to Include T1P1 Number Portability Harmonization CRs in R99.**. Source VoiceStream Wireless, Aerial, BellSouth, Nokia, SBC Communications.

CONTENTS: The document contains a proposal that the T1P1 Number portability CRs be given an extension for inclusion as part of Release 99

Considering that number portability capability is beginning to be deployed in the US in anticipation of the FCC regulatory requirements and that US GSM operators strongly desire that these deployments be standardized, and also considering that the CRs being proposed only affect GSM deployments in NA, the contributors are requesting that TSG-CN and TSG-SA agree that the T1P1 Number portability CRs be given an extension for inclusion as part of Release 99. The objective would be to complete this effort in time for approval at the June TSG meetings.

DISCUSSION: It is noted that some of these issues are North American specific. Operators outside of this region do not need to be aware of this specificity.

The CRs are quite North American specific, and could not be easily employed as a solution for anyone outside of this region. To make these CRs more global, it may be a solution to replace the references to North American with a general term.

✍✍ **CN agrees to including this function for R99 and CRs shall be produced within N2 for approval at TSG_N#8**

RESULT: The document was **DISCUSSED and the proposal ENDORSED**

NP-000031: Meeting Report N2A#9

RESULT: The document is **NOTED**

NP-000032: Meeting Report N2A#2

RESULT: The document is **NOTED**

NP-000080: Liaison Statements agreed in CN 2B since CN#6

RESULT: The document is **NOTED**

NP-000162: Liaison Statements agreed in CN 2A since CN#6

RESULT: The document is **NOTED**

5.2.2 Questions for Advice and Decisions from N2

NP-000158: **Camel Functions to be included in Release 2000.** Presented by Ian Park

CONTENTS: This contribution lists those functions of CAMEL which were shown in NP-99511 as being for inclusion in Release 2000. TSG-CN are asked to decide whether these functions are all appropriate for inclusion in Release 2000.

  ?? MO calls: Mid call procedure (22.078 section 5.7).

  ?? MO/MF calls: Creation of call parties - Call Party Handling (22.078 section 5.10).

  ?? MT calls: Mid Call procedure (22.078 section 6.7).

  ?? CSE Initiated call setup (22.078 section 8).

  ?? Procedures for USSD (22.078 section 11).

  ?? User Interaction scripts (section 14.4).

  ?? Enhancements to CSE control of call duration – playing of tones (22.078 section 15.4).

  ?? Enhancements to Call Forwarding interactions (22.078 sections 18.3.1, 18.3.2).

  ?? Interactions with Optimal Routeing (22.078 section 20)

DISCUSSION: Ian Park noted that there has not yet been any guidance from SA1 on this issue.

A related LS will be sent to S1 in **NP-000136.**

RESULT: The subject was **DISCUSSED**

NP-000136: **LS to S1 Camel Functions to be included in Release 2000.**

RESULT: The document was **APPROVED to be sent from TSG_N.**

5.2.3 Approval of Contributions from N2

NP-000110: **TS 23.116 v2.1.0 Supercharger stage 2**

DISCUSSION: Hold some text on EUIC, which is identified as a contentious issue for CN. It is proposed to approve the version of TS 23.116 without this text **(NP-000169)**

RESULT: The TS is **NOT APPROVED**

NP-000169: **TS 23.116 v2.0.0 Supercharger stage 2**

DISCUSSION: Version of the specification without the text on EIUC.

After completion of discussion and recommendation to move EUIC to R00 the version 2.0.0 was approved ie. the version before inserting EUIC-specific text.

RESULT: **APPROVED to be upgraded to v3.0.0**

NP-000108: **TS 23.119 GLR Stage 2**

RESULT: The TS is **APPROVED to be upgraded to v3.0.0**

NP-000111: **TS 23.153 Out of Band Transcoder Control Stage 2**

DISCUSSION: This specification needs fundamental restructuring to separate R'99 and R'00 issues; R'00 material should be moved to informative annex.
For further information see the Nortel contribution NP-000114 on this issue.

RESULT: The TS is rejected due to open issues. **NOT APPROVED.**

NP-000107: **TS 29.119 GTP for GLR**

RESULT: The TS is **APPROVED to be upgraded to v3.0.0**

NP-000109: **TS 29.120 MAP for GLR**

RESULT: The TS is **APPROVED to be upgraded to v3.0.0**

NP-000033: **CRs to Work Item Camel Ph2 (N2A)**

RESULT: All CRs were **APPROVED**

NP-000064: **CRs to Work Item Camel Ph2 (N2B)**

RESULT: All CRs were **APPROVED**

NP-000034: **CRs on TS 23.078 to Work Item Camel Ph3 - Part 1 (N2A)**

RESULT: The document was **REVISED to 0160**

? REVISED ?

NP-000160: **CRs on TS 23.078 to Work Item Camel Ph3 - Part 1 (N2A).**

DISCUSSION: At the time of the presentation Lucent objected to N2A -000277 CR 056r3 to 23.078, on GPRS TCAP dialogues, and requested more time to study its content, and possibly propose an alternative solution. This was postponed to contentious items in NP-000188. Steffen stated that this CR is seen as urgent for implementation in R99, and should be postponed only if Lucent will propose an alternative or revised solution.

RESULT: All CRs except **23.078 CR 056r3** to were **APPROVED**

Note (CR 23.078~~-056r3~~ was **APPROVED later the meeting) ;
see TCAP/GPRS issue RE-PRESENTED in NP-000188.**

NP-000035: **CRs on TS 23.078 to Work Item Camel Ph3 - Part 2 (N2A).**

RESULT: All CRs were **APPROVED**

NP-000036: **CRs on TS 23.078 to Work Item Camel Ph3 - Part 3 (N2A).**

RESULT: All CRs were **APPROVED**

NP-000065: **CRs to Work Item Camel Ph3 (N2B).**

DISCUSSION: User Interaction is a contentious issue. There is an outstanding issue in SA.

RESULT: All CRs except 23.018 CR 028r1 were **APPROVED**

23.018 CR 028r1 was **RE-PRESENTED in 0183 (*and later rejected*).**

NP-000161: **CRs on TS 29.078 to Work Item Camel Ph3 (N2A).**

DISCUSSION: User Interaction is a contentious issue. There is an outstanding issue in SA. Handling of TC dialogues for CAMEL control of GPRS is a contentious issue; there was an objection from Lucent (see also the discussion on NP -000160)

RESULT: All CRs except 29.078 CR 018 and CR 058 were **APPROVED**

The two CRs **29.078 CR 018** (TCAP dialogues) and **29.078 CR 058** (User Interaction) were **NOT APPROVED and RE-PRESENTED in NP-000188. and NP-000183 respectively.**

NP-000055: **CRs to Work Item Call Forwarding Enhancements (N2A)**

RESULT: All CRs were **APPROVED**

NP-000066: **CR to Work Item Call Forwarding Enhancements (N2B)**

RESULT: The CR was **APPROVED.** An open issue has been identified on Long forwarded to numbers (GMSC not being able to deal with a Long forwarded to number sent in a Resume Call Handling for ORLCF). Additional CRs to provide the solution will be made in this area.

NP-000063: **CRs to Work Item ASCI Ph.2**

RESULT: All CRs were **APPROVED**

NP-000067: **CRs to Work Item GPRS**

RESULT: All CRs were **APPROVED**

NP-000068:   **CRs to Work Item GSM/UMTS interworking**
RESULT: All CRs were **APPROVED**

NP-000069:   **CRs to Work Item GTP Enhancements**
RESULT: All CRs except 29.060 CR 072r3 were **APPROVED**

                  29.060 CR 072r3 was **REVISED to 0165**

? REVISED ?

NP-000165:   **CR to Work Item GTP Enhancements.** Source Ericsson / NEC.
CONTENT   **Contains 29.060 CR 072r4**
RESULT: The CR was **APPROVED**

NP-000070:   **CRs to Work Item Handover**
RESULT: All CRs were **APPROVED**

NP-000071:   **CRs to Work Item LCS**
RESULT: All CRs were **APPROVED**

NP-000072:   **CRs to Work Item Mobile Number Portability**
RESULT: All CRs were **APPROVED**

NP-000073:   **CRs to Work Item Multicall (N2B)**
RESULT: All CRs were **APPROVED**

NP-000143:   **CR to Work Item Multicall (N2B)**
RESULT: The CR was **APPROVED**

NP-000074:   **CRs to introduce 3 digit Mobile Network Calls**
RESULT: All CRs were **APPROVED**

NP-000075:   **CRs to Work Item Pre-paging**
RESULT: The CR was **APPROVED**

NP-000077:   **CRs to Work Item QoS Enhancements**
RESULT: All CRs were **APPROVED**

NP-000078:   **CRs to Work Item SOLSA**
RESULT: All CRs were **APPROVED**

NP-000079:   **CRs to Work Item TEI (N2B)**

RESULT: All CRs were **APPROVED**

NP-000113:   **CRs to Work Item TEI (N2A)**

RESULT: All CRs were **APPROVED**

NP-000076:   **CRs to Work Item Security**

RESULT: The document was **REVISED to 0133**

? REVISED ?

NP-000133:   **CRs to Work Item Security**

DISCUSSION: Some contentious issues on Security, (IMSI encryption, EUIC). The contentious CRs were removed and re-presented in a separate document.

Some problems were noted with the 5 CRs to 03.03/23.003 on enhanced IMEI security. This text was previously discussed at SMG#30, and it was mentioned that 03.03 is not the specification that should hold this information. It would be simpler to have a reference to 02.16, where this text should be held.

The CRs to the contentious issues were identified and re-presented for further discussion in 2 manageable documents.

The non contentious CRs were approved in this document:-

23.012 CR 004 **APPROVED**

29.002 CR 089 **APPROVED**

29.002 CR 099 **APPROVED**

29.002 CR 103r1 **APPROVED**

29.002 CR 104 **APPROVED**

29.002 CR 102r2 **APPROVED**

29.002 CR 110 **APPROVED**

22.018 CR 049 **APPROVED**

23.012 CR 005 **APPROVED**

29.060 CR 080r2 **POSTPONED until TSG_N#8. (S3 have to make a corresponding CR to 33.102).**

RESULT: **The CRs on EUIC were moved to NP-000138. The CRs to GSM 03.03 and TS 23.003 on enhanced security for the IMEI were revised to NP-000174 to NP-000179.** *(the EUIC CRs were later rejected and the IMEI CRs were later approved.)*

NP-000137:   **Summary of the status of Security CRs (except those on EUIC), formerly presented in NP-000133.** Presented by Ian Park.

CONTENT: For those delegates who were as confused as the secretary by the extraction and revision of CRs into other documents, this table outlines the status of the CRs contained within NP-000133

TDoc	SPEC	CR	REV	CAT	Rel	SUBJECT	Result I
N2B000331	03.03	A038		C	R98	Modification of section 6.2 to enhance IMEI security	Revised
N2B000332	03.03	A039		C	R97	Modification of section 6.2 to enhance IMEI security	Revised
N2B000333	03.03	A040		C	R96	Modification of section 6.2 to enhance IMEI security	Revised
N2B000334	03.03	A041		C	Ph2	Modification of section 6.2 to enhance IMEI security	Revised
N2B000335	23.003	017	1	C	R99	Modification of section 6.2 to enhance IMEI security	Revised
N2B000190	23.012	004		B	*R99	Addition of Current Security Context to Send_Identification_PVLR	Approved
N2B000067	29.002	089			R99	Security interworking between release 99 and pre-99 MSC/VLRs	Approved
N2B000191	29.002	099		B	R99	Addition of Current Security Context to Send_Identification_PVLR	Approved
N2B000330	29.002	103	1	B	R99	Addition of UMTS security to MAP B interface	Approved
N2B000244	29.002	104		F	R99	Re-Synchronisation Info	Approved
N2B000446	29.060	080	2	C	R99	GTP Security	Postponed
N2B000380	29.002	102	2	F	R99	Clarification on Authentication Info Retrieval	Approved
N2B000454	29.002	110	1	B	R99	Introduction of Authentication Failure Report	Approved
N2B000315	23.018	049		B	R99	Introduction of Authentication Failure Report	Approved
N2B000316	23.012	005		B	R99	Introduction of Authentication Failure Report	Approved

RESULT: The document was **NOTED**

NP-000179:   **Summary sheet of the CRs contained in NP-000174 – 178**

CONTENT: This document contains "5" CRs on Work Item Security, that were revised and now represented to TSG_N Plenary meeting #7 for approval. It should be noted that documents NP-000174 to 0178 were zipped within 0179. This has been resolved, however **the practice of zipping plenary documents within plenary documents should be avoided.**

TDoc	SPEC	CR	REV	CAT	Rel	SUBJECT
NP-000178	03.03	A038	1	C	R98	Modification of section 6.2 to enhance IMEI security
NP-000177	03.03	A039	1	C	R97	Modification of section 6.2 to enhance IMEI security
NP-000176	03.03	A040	1	C	R96	Modification of section 6.2 to enhance IMEI security
NP-000175	03.03	A041	1	C	Ph2	Modification of section 6.2 to enhance IMEI security
NP-000174	23.003	017	2	C	R99	Modification of section 6.2 to enhance IMEI security

RESULT: The document summary part of the document was **NOTED**

NP-000174:   **CR to 23.003 Modification of section 6.2 to enhance IMEI security**

RESULT: The CR was **APPROVED**

NP-000175:   **CR to 03.03 Ph.2 Modification of section 6.2 to enhance IMEI security**

RESULT: The CR was **APPROVED**

NP-000176:   **CR to 03.03 R96 Modification of section 6.2 to enhance IMEI security**

RESULT: The CR was **APPROVED**

NP-000177:   **CR to 03.03 R97 Modification of section 6.2 to enhance IMEI security**

RESULT: The CR was **APPROVED**

NP-000178: **CR to 03.03 R98 Modification of section 6.2 to enhance IMEI security**

RESULT: The CR was **APPROVED**

NP-000144: **CR for the Removal of UI in the monitoring state.** Presented by Sumio Miyagawa of Siemens.

CONTENT: Following the decision that user interaction is not a part of R99, this CR was presented directly to CN Plenary.

DISCUSSION: S1 will need to align the stage 1; this will be done at a later stage.

RESULT: CR 23.078-117 was **APPROVED**

5.3 TSG_CN WG3 (N3)

5.3.1 Report from N3

NP-000041: **Status Report from N3 to N#7.** Presented by Norbert Klehn, CN3 Chairman.

CONTENTS: This report summarizes the progress of TSGN3 on the work items which have been active in the working group since TSGN plenary meeting #6.

DISCUSSION: Clarification on Bearer modification without pre-notification. S1 has sent detailed requirements, and N3 are awaiting a W.I description sheet from S1or contributions from any interested companies.

RESULT: The document was **NOTED.**

NP-000042: **Draft Report from N3#8 Meeting Sophia.**

RESULT: The document was **NOTED.**

NP-000043: **All LSs sent from N3 since TSG#6**

RESULT: The document was **NOTED.**

5.3.2 Questions for Advice and Decisions from N3

[Extract from NP-000041]:

A further version of the draft specification for real-time non-transparent Fax (23.146) was presented by NTT DoCoMo. Due to the late provision of this document other companies were not able to check the specification in detail. Main concerns raised up related to the following topics:

Architecture on terminal side is not as expected
Application of T.38 is not complete
Text is not clear and many areas require clarifications.

It was not possible to approve this specification during the meeting. So, it was decided to get a approval after the meeting per e-mail. For this, an updated version was provided by NTT DoCoMo where first comments from the meeting were incorporated. However, there are still concerns with the approval of this specification. Therefore this specification is presented in NP-000052 as version 1.1.0, but not as 2.0.0. in order to show what was reached until now but not requesting an approval for getting a version 3.0.0. *CN#7 is asked to give guidance how this work item can be finalised (in R99 or R00).*

Masami raised a related question on the content of R99 on the implications of moving work to R00.
Harald replied:- R99 should hold all of the element that have compatibility implications, and also essential features, and also those elements that are mature enough to be completed.

Masami said that NTT DoCoMo are eager to resolve the NT Fax open issues, and asked the N3 chairman to provide a work plan for this.

Norbert encouraged the use of E-mail discussion and asked NTT DoCoMo to progress work. However NTT DoCoMo are in the driving seat and are responsible for the work on NT Fax.

Note: Alcatel believed that this work will not be complete by CN#8, and asked that this work be postponed to R00.

Peter Kobriger (Ericsson):- There are many open points that have not been resolved since 6 months, and there is a lot of work that must be completed for the inclusion of this work in R99, and CN3 has a lot of work to complete over the coming months. Ericsson supports the postponement to R00

Norbert noted that there are 3 solutions for facsimile in UMTS.
T37 IP based
T38 IP based
RT NT Facsimile

It has been agreed to align the RT NT solution and the T.38 solution. This work must be included in 23.146. There is an open issue on this within N3.

Mikko voiced his concerns that delaying R99 issues until June will delay the overall implementation of R99.

Masami stated that NTT DoCoMo do not disagree with RT NT Facsimile being moved from R99 to R00, as long as work can be completed as quickly as possible. The technical Freezing of the R00 work item puts additional pressure to have the work complete as soon as possible.

> ✉✉ **CN Agree to move RT NT Facsimile to R00, with goal to be technically frozen in TSG#8 N3 is urged to work hard in this issue.**

NP-000128: **Discussion Paper; Current state of 23.146. From Ericsson**

DISCUSSION: Noted and forwarded to N3 as a basis as for further technical study.

RESULT: The document was **NOTED.**

5.3.3 Approval of Contributions from N3

NP-000044: **CRs to Work Item CS Bearer Services**

RESULT: All CRs were **APPROVED**

NP-000045: **CR to Work Item FTM**

RESULT: The CRs was **APPROVED**

NP-000046: **CRs to Work Item Multimedia**

RESULT: All CRs were **APPROVED**

NP-000047: **CR to Work Item Point to Multipoint (IP Multicast)**

RESULT: The CR was **APPROVED**

NP-000048: **CRs to Work Item R99 Service Clean up**

RESULT: All CRs were **APPROVED**

NP-000049:   **CRs to Work Item Streamlining**

RESULT: All CRs were **APPROVED**

NP-000050:   **CRs to Work Item UMTS (TEI)**

RESULT: All CRs were **APPROVED**

NP-000051:   **Work Item Description Sheet for CS Multimedia for R00**

CONTENTS: This document includes the fallback feature that could not be complete for R99.

RESULT: The document was **APPROVED**

NP-000052:   **TR 23.146 v1.1.0**

RESULT: The document was **NOTED and remains as V1.1.0**

NP-000053:   **TR 23.910 v2.0.0**

RESULT: The document was **APPROVED to be upgraded to v3.0.0.**

5.4   TSG_CN WG SS Ad Hoc (NSS)

5.4.1   Report from NSS

NP-000163:   **Status Report from NSS to TSG_N#7**. Presented by Steffen Habermann, SS ad hoc interim chairman.

CONTENTS: The TSG CN SS ad hoc meeting took place from 17 – 18 February 2000 in Sophia Antipolis hosted by ETSI. This contribution gives a summary report of the achievements of the SS ad hoc. Details can be found in the MCC report in Tdoc NP‑000021.

DISCUSSION: It should be noted that:

Due to the lack of a new chairman and the lack of new work items (besides Multicall), it is proposed that TSG CN looks for a new home for the supplementary service activities in Release 2000. The major task will be the maintenance of the existing specifications in this new environment.

RESULT: The document was **NOTED**

NP-000021:   **Report from NSS Meeting#5 in Sophia.**

RESULT: The document was **NOTED**

5.4.2   Questions for Advice and Decisions from NSS

No input for this agenda item.

5.4.3   Approval of Contributions from NSS

NP-000022:   **TS 23.135 v1.1.0 Stage 2 spec for Multicall.**

RESULT: The document was **APPROVED to be upgraded to v3.0.0.**

NP-000023:   **TS 24.135 v1.0.0 Stage 3 spec for Multicall.**

RESULT: The document was **APPROVED to be upgraded to v3.0.0.**

NP-000028:   **CR to Work Item MSP Ph. 2**

RESULT: The CR was **APPROVED**

NP-000026:   **CR to Work Item Follow Me**

RESULT: The CR was **APPROVED**

NP-000024:   **CR to Work Item Call Forwarding Enhancements**

RESULT: The CR was **APPROVED**

NP-000027:   **CRs to Work Item LCS**

RESULT: All CRs were **APPROVED**

NP-000112:   **CR to Work Item Camel Ph. 2**

RESULT: The CR was **APPROVED**

NP-000025:   **CRs to Work Item Camel Ph.3**

RESULT: All CRs were **APPROVED**

NP-000119:   **CR to 24.080 Work Item Multicall.** Presented by Tani of NTT

CONTENT: Contains a CR to 24.080 that has not been seen by NSS and is presented to the TSG_N meeting directly. The CR is for the introduction of Multicall.

RESULT: The CR was **APPROVED**

NP-000171:   **Global cause of no ID.** Source Nokia.

RESULT: The document was not presented and may be **NOTED**

NP-000189:   **Technical Implementation on Cause of no ID.** Source NTT DoCoMo

RESULT: The document was not presented and may be **NOTED**

5.5 TSG_CN VHE / OSA Ad Hoc Activity

NP-000058: **Status Report from OSA**

CONTENT: The document contains the STATUS REPORT, for OSA R'99

DISCUSSION: **Q:** Why has is been decided that the OSA API mapping part would be informative?

R: The behavior of the API has been standardised not the API mapping. Stage 2 specification states that this is an interface not for standardisation.

RESULT: The document was **NOTED**

NP-0000172: **Status of OSA work item.** Presented by Mikko of Nokia.

CONTENT: **The document contains an analysis of the work carried out on OSA.**

The conclusion of the document reads : Recent OSA meetings have made significant progress in a very short time but nevertheless, lack of time has lead to the exclusion of essential capabilities and definitions from OSA. Moreover, in some areas the definitions have been left too vague for a reliable multivendor implementation. If such a specification is included in the 3GPP Release, it leads to incompatible proprietary implementations among the early adopters of the OSA specification. This would fragment the OSA market. Consequently, adding the missing functionalities and definitions in later Releases would become a tedious and time consuming exercise when manufacturers would be protecting their own implementations.

OSA has failed to meet the expectations for the specification quality and completeness, and the agreed deadline. There is still a fair amount of work to be done, de-stabilising Release 99 late into year 2000.

To guarantee a reliable and multivendor capable OSA in 3GPP specifications, it is suggested that OSA as a whole be postponed to Release 2000.

RESULT: The document was **NOTED**

NP-000180: **VHE/OSA Release 99.** Contribution from Siemens Ericsson and Lucent Presented by Lucas.

CONTENT: Contains a proposal by the source companies *that strongly recommends that the current set of VHE/OSA specifications will be endorsed by TSG#07 for inclusion into VHE/OSA R'99. It can also be noted that VHE/OSA R'99 has a strong industry support*.

DISCUSSION: Concern with Multi-vendor interoperability. Network state resulting from a particular application may vary depending on implementation.

Requirement for standardisation of API semantics as opposed to this being 'informative'.

After an informative show of hand on the inclusion of OSA in R99 or R00 the following decision was taken by TSG_N.

?? **CN agree to the inclusion of OSA in R99 but target for completion is TSG_N#8 on the outstanding issues**

RESULT: The proposal within the document was **ENDORSED**

NP-000056: **3G TR 29.998 1.0.0 Open Services Architecture - API - Part 1.**

RESULT: The document was **NOTED**

NP-000057:   **3G TR 29.998 1.0.0 Open Services Architecture - API - Part 2.**

RESULT: The document was **NOTED**

NP-000181:   **VHE/OSA Stage 2 and Stage 3 activities for R'00.** Contribution from Siemens Ericsson and Lucent Presented by Lucas.

CONTENTS: The document contains a proposal for release 2000 to merge the description of Framework and Network Service Capability Features from TS 23.127 into TS 29.198 and to create a single and generic stage 3 specification to standardize the Open Service Architecture API´s.. This would lead to a much more effective means for the specification work. Stage 2 should then focus its content on the architectural work to provide concepts to reflect the VHE requirements.

DISCUSSION: The document could be restudied at the joint meeting between S2/CN to discussion. A LS will be sent to S2 outlining these issues. The LS can be found in **NP-000193**.

    CN notes the document, and expects a decision on this to be made at TSG_N#8.

RESULT: The document was **NOTED**

NP-000193:   **LS to S2 on the organisation of the work on VHE/OSA Release 2000**

RESULT: The document was **APPROVED to be sent**

NP-000182:   **Background information on OSA Release '99.**

CONTENTS: This contribution aims to provide delegates with some background on this interface, and shows that the interface under discussion is largely the same as an interface already worked out in the OSA Ad-hoc output document (3G TS 29.1xx version 0.3.0 part 1).

RESULT: The document was **NOTED and forwarded to OSA Ad Hoc for information.**

5.5 TSG_CN ITU-T Co-ordination Activity

NOTE for information the CN ITU-T Ad Hoc Mail exploder has the following address: 3GPP_TSG_CN_AH_ITUT

NP-000116:   **ITU-TQ.1701 Supplement.** Presented by Masami.

CONTENTS: Complimentary documentation to the IMT 200 family.

This Supplement is an "information" document and is intended as a roadmap and a source of references for documents related to IMT-2000 specifications from ITU-T as well as from sources outside the ITU (e.g., 3GPPs and SDOs.) The list of documents contained in this Supplement should therefore be treated as "bibliographic" references. The scope includes any relevant standards that are targeted toward the specification of IMT-2000 systems.

RESULT: The document was **NOTED**

NP-000168:   **Standardization/Specification of NNI (Network-to-Network Interface) standardization with Other IMT-2000 Family Member Systems.** Presented by Masami, the author of the document.

CONTENTS: This document discusses an issue of NNI with other IMT-2000 Family Member Systems and clarifies some necessary preliminary steps within 3GPP and actions to outside organizations (i.e., ITU-T and 3GPP2) to start the detailed NNI specification / standardization work.

    The author proposes propose to start the preliminary steps for NNI Specification / Standardization in the relevant WGs (TSG-SA1, SA2, TSG-CN2).

DISCUSSION: Questions were raised on the implications of interacting directly with 3GPP2.

Issue if global roaming was raised, which is achieved by multi-mode terminals supporting the different access technologies. Hence a joint NNI between family member systems solution will be required for this.

Albert: The decision on which NNI should be used is considered both premature and beyond the scope of 3GPP.

The choice is allow ITU-T to produce the new NNI, or standardize it within 3GPP.

3GPP should have a study on the interfamily NNI to determine a policy. This type of coordination should be done within S2.

CN supports the proposals 1 and 2

(1) NNI with other IMT-2000 Family Member Systems needed? (by S1). As mentioned below, S1 has already started some service requirement works. However, S1 should reconsider whether the market is demanding the NNI between GSM evolved CN and other IMT-2000 family CN.

(2) What functions should be provided in the NNI? (by S2). ITU-T SG11 has already identified that NNI should at least provide mobility management, service control, call/bearer control. Any further functions?

Is was agreed that the LS should be revised to a LS to SA and S1, asking them to consider the requirement for study of this work. As Masami had to travel during the meeting, the LS was not seen by the CN plenary, and was presented to the SA plenary in document *SP-000137.*

RESULT: The document was **NOTED.**

NP-000185: **Cooperation with ITU-T SG11.** Presented by Masami

CONTENT: This document proposes the necessary work in 3GPP TSG-CN with regards to cooperation with ITU-T SG11.

ITU-T SG11 is currently undertaking an informal meeting with 3GPPs as shown in Annex. 3GPP TSG-CN is expected to express its position with regard to cooperation with ITU-T.

In TSG-CN, ITU-T coordination ad hoc was established to work as a bridge between 3GPP and ITU-T and to deal with high level political issue. So far, it has been assumed that the work could be proceeded by e-mail basis. This time, 3GPP TSG-CN should submit a written paper to the proposed informal meeting. Therefore, I'm currently planning to hold a face-to-face meeting tentatively as follows.

Date: 29th – 30th , May, **Place:** DoCoMo Europe Office in Paris.

(1) Expectation to ITU-T SG11 (e.g., NNI, Synchronization of Workplan)

(2) Liaison method between 3GPP and ITU-T SG11

(3) Drafting the position paper

The result of the meeting will be presented in TSG-CN #8. The draft position paper will be approved also.

DISCUSSION: **Henry Taylor**: SG11 has a 4 year work cycle, and the present period ends in November of this year. It would be useful to address the SG11 expectations of this new study period.

PCG should also be made aware of this meeting, as well as a copy of the invitation being made available to TSG_SA.. This presented to the SA plenary in document *SP-000138.*

Masami will revise the invitation and agenda of the meeting, and these will be sent to the CN ITU-T Ad Hoc exploder.

? ? **CN Plenary encourage the meeting**

RESULT: The document was **NOTED**

5.7 TSG_CN R00 All IP Activity

NP-000015: **Meeting Report from CN R00 Ad Hoc Meeting in Mexico.** Presented by Stephen Hayes.

RESULT: **The document was APPROVED.**

NP-000141: **Summary of CN R00 Ad Hoc Meeting in Mexico.** Presented by Stephen Hayes.

DISCUSSION: Confirmation of the CN/S2 Helsinki meeting dates:

- Joint S2/N1 11th – 13th April
- Joint S2 / CN 13th – 14th April.

Note: This date clashes with the planned N3 meeting – an arrangement will be found.

RESULT: **The document was NOTED.**

NP-000010: **Open Item List generated from the CN R00 Ad Hoc Meeting in Mexico.** Presented by Stephen Hayes.

RESULT: **The document was NOTED.**

5.8 Review of TSG_CN Work Program

NP-000146: **Revision of SP-99639.** Presented by Harald

CONTENT: SP-99639 was produced during the TSG_SA#6 meeting. It contains the status of R99 work items across the TSGs and SA Working groups.

DISCUSSION: The document was revised on-line during the TSG_N#6 meeting and the results are given in this document.

RESULT: **The document was DISCUSSED**

5.8.1 Work Items / Work Tasks in TSG_CN and SWGs

NP-000170: **LCS in Release 99.** Presented by Mikko Kanerva of Nokia

CONTENT: The document is from 3GPP S2 coordinator on location services in UMTS , and contains cover sheet for submitting TS 23.171 Location services in UMTS stage 2 specification to TSG-SA#7 for approval in Release 99, and a supporting SA2 document on location services in Release 99.

It is noted that some open issues belong to the TSG-CN area, as listed in the Release 99 submission form:

Minor CRs to 23.007, 23.008 and 23.016 to point out that some paragraphs are applicable to GSM only

GSM 04.30 is to be transferred to 3GPP, as 24.030, to cover LCS for GSM and UMTS in R99

TSG-CN is asked to recognise the need for completing this work item in R99.

DISCUSSION: There is sympathy to study this as an element to be included in R99, to be revisited at TSG#8.

✍✍ **CN Plenary allow N1 and N4 a study period to produce material for TSG N#8.**

RESULT: **The proposal contained within the document was AGREED.**

NP-000173: **Proposed Enhanced IMEI Coding Format.** Presented by Mikko Kanerva of Nokia.

CONTENT: The document contains the following proposal:-

Given the strong reliance on the interoperability with legacy products no change to IMEI length or structure is considered feasible. In contrast, the coding format of the Serial Number is proposed to be modified. The new coding format is proposed to be included in 3GPP Release 99 specifications.

Instead using BCD, a hexadecimal coding format is proposed. It would offer a capacity of 16.7 million units manufactured with one Type Approval Code.

TAC would set a trigger for interpretation (Network would identify from which TAC number onwards a serial number would be interpreted as binary presentation), or

Alternatively, a date could be set before which terminals should use the old IMEI coding format

Contains Draft CRs to GSM 22.016, 23.003, 24.008 and 25.33

DISCUSSION: Iain: suggests that rushing this may result in a 3 digit MNC

CN has sympathy that this is studied in N1.N4 and also R4 must be made aware.

RESULT: **The document was NOTED to be forwarded to the relevant groups**

NP-000145: **N3 Work Item Summary Sheets for R99.** Source Norbert N3 Chairman.

RESULT: The document was not seen and may be **NOTED.**

NP-000156: **Attachment to "R99 WI-Sheet for GSM – UMTS Interworking".** Source N1.

RESULT: The document was not seen and may be **NOTED.**

5.8.2   Release 1999 and Release 2000

NP-000123: **Release 99 finalisation.** Source NTT DoCoMo.

RESULT: The document was not seen and may be **NOTED.**

NP-000124: **Completion of Release 99.** Source BT.

RESULT: The document was not seen and may be **NOTED.**

NP-000125: **CN Structure & Objectives for Release 2000.** Source BT.

RESULT: The document was not seen and may be **NOTED.**

5.9 Letters to Other Groups

No input to this agenda item.

5.10 Contentious Issues / Open Items

Note: In order to accelerate the presentation of the Work Group material, it was decided to take all contentious issues and discuss them separately. These Issues are presented below.

5.10.1 Enhanced User Identity Confidentiality

Status from N2

Most of the work is complete within N2, and the CRs are presented to this plenary for approval.

GSM VLR Re-start is the only open issue on this. N2 are awaiting guidance from S1 and S3 on this.

NP-000138: **CRs from N2 to W.I Enhanced User Identity Confidentiality** Presented by Ian Park

CONTENT: This document contains "6" CRs on Work Item Security (Enhanced User Identity Confidentiality), that have been agreed by TSG_N WG2, and are forwarded to TSG_N Plenary meeting #7 for approval.

DISCUSSION: GSM VLR Re-start is the only open issue for EUIC. N2 are awaiting guidance from S1 on this.

Note: There are related CRs yet to be produced by N1, and it is proposed that these 6 N2 CRs be postponed until the complete package of CRs to this work item is ready, and the decisions from SA have been made available to TSG_N.

RESULT: The CRs were **POSTPONED**

Status from N1

Encrypted IMSI (EUIC) is not complete as there are outstanding issues awaiting guidance from S1 and S3.

Related CRs were presented and discussed within N1, and they could not be approved before TSG_N#7. There were a number of open issues, and questions to these other groups that must be resolved before work on this is complete within N1.

Steffen: Some of the N1 open issues have already been considered by T_Mobil who are advancing the work in this area.

Once guidance has been received from S1/S3 it would be possible to complete this work within N1 by TSG_N#8.

Summary:

The deadline for completion of EUIC was for this meeting. However a number of identified open issues requiring guidance from S1 and S3 have meant that work cannot be completed.

CN do not recommend to SA whether EUIC should remain in R99 or be moved to R00.

✍✍ **The final decision on Security has to be taken by SA.**

CN is prepared to continue work on Enhanced User Identity Confidentiality once the open issues pending answers from S1 and S3 are resolved.

5.10.2 Map Security

NP-000127: **Status of work items handled in TSG-N2 (Including MAP security).** Presented by Ian Park

CONTENT: The document contains all work item status sheets for N2, including MAP security.

The document identifies a number of outstanding issues for MAP security, and it is proposed to extend MAP security work until June for R99.

DISCUSSION: **Iain Sharp of Nortel:** Consequences of delaying this work item until June would result in delaying the implementation of such an essential feature for R99.

Ian Park: Can the system survive without a security system until the end of the year, which would be a result of moving this work item to R00?

Several Operators see security as an essential item for R99.

Several Manufacturers believe that this can be moved to R00

Steffen mentioned that MAP security is presently optional for R99. Also this topic requires discussion with S3 and also S5.

RESULT: The status was **NOTED**

Summary: The work can be completed quickly by N2, however CN Plenary cannot take a decision on whether this should be included in R99/R00, and the decision will be left to SA.

5.10.3 Out of band Transcoder

NP-000085: **Work Item Sheet for Out-of-Band Transcoder Control** Presented by Hannu.

CONTENT: TSGN1 could not complete the work on Out-of-Band Transcoder Control in the scope defined for the WI. Several liaisons were exchanged and parallel ad-hoc sessions were held in order to get together the minimum building blocks for R99. This was achieved by defining AMR to be the default codec for UMTS, meaning that it does not need to be signalled out-of-band during the call establishment phase. The existing BC IE structure is kept for GSM and its contents are still useful for UMTS to GSM handover.

Adding new codecs and the signaling mechanism to negotiate the activation of the codecs should be studied for R00. TSGN1 has not had the time to draft a proposal for the remaining R00 work.

With the above reservations, TSGN1 reports its work on the R99 part of the WI complete and provides the CRs for plenary approval in tdoc NP-000098.

Working assumption for R99: As there is only one CODEC (AMR), this does not need to be signalled.

RESULT: The document was **NOTED**

NP-000114: **Out of Band Transcoder Control Stage 2, Clarification of Release'99 Functionality.** Presented by Iain Sharp, of Nortel Networks.

CONTENT: It is recommended that the Out of Band Transcoder Control Stage 2 is restructured, moving the capabilities that are to be standardised in Release'00 into a separate Annex. This Annex needs to state clearly that the capabilities within are subject to change following the completion of work in TSG-CN1 and TSG-RAN3.

DISCUSSION: Relates to TS 23.153 Out of Band Transcoder Control Stage 2 (NP-000111)

  ✍✍ **CN Agree to the removal of R00 capabilities to an ANNEX of 23.153**

  ✍✍ **N2 and interested parties are requested to identify the elements to be moved to R00 in the ANNEX of TS 23.153.**

RESULT: The document was **DISCUSSED and the principles ENDORSED**

NP-000111:   **TS 23.153 Out of Band Transcoder Control Stage 2**

RESULT: **NOT APPROVED and is sent back to N2 to reflect the R99 / R00 split.**

NP-000127:   **W.I Status report for N2 including Out of band transcoder control from N2.**

CONTENTS: Contains the Work Item description sheets for N2 including Out of band transcoder control.

DISCUSSION: Identifies a number of open issues including:-

? ? **Handling of Conference Calls;**

? ? **Handling of Multi Party Supplementary Services;**

? ? **Handling of Handover UMTS to GSM;**

? ? **Handling of Sending a tone or Announcement;**

? ? **Protocol between MSCs (i.e. Iu UP Framing versus I.366).**

RESULT: The document is **NOTED**

Summary:

The Work Item for CN Out of band Transcoder Control is not fully complete. There are a number of outstanding issues that cannot be complete within R99.

CN proposes to move these items to R00

5.10.4 CAMEL Ph 3 User Interaction

NP-000187   **Proposal on User Interaction in Monitoring.** Presented by Sumio of Siemens.

CONTENT: Siemens does not oppose the feature of User Interaction in the monitoring state; however, this feature would most preferably be in line with CPH, which is foreseen to be in release 2000. If the current CRs were accepted, the alignment work for release 2000 would be unavoidable. Therefore Siemens strongly proposes the following items:

? ?   No User Interaction in the monitoring state in release 99

? ?   TSG_CN inform TSG_SA of the decision so that this item may be completed uniformly with CPH.

DISCUSSION:

✍✍ **CN recommend that user interaction is linked to CPH and hence should be moved to R00 (with CPH)**

RESULT: The document was **DISCUSSED** and the proposal was **AGREED.**

NP-000183   **CRs to 3G Work Item CAMEL Phase 3 related to User Interaction during Monitoring State.** Presented by Steffen.

CONTENT: This document contains 3 CRs on User Interaction during Monitoring for CAMEL Ph.3. These CRs were extracted from documents (CR 028r1 to 23.018) in **0065 and 0161.**

DISCUSSION: Following the decision to move this work item to R00, the CRs were REJECTED.

RESULT: ALL 3 CRs were **NOT APPROVED**

NP-000188   **CRs for TCAP dialogue management for CAMEL control of GPRS** *(extracted from 160 and 161).*

CONTENT: This document contains "2" CRs on Work Item CAMEL phase 3, for TCAP dialogue management for CAMEL control of GPRS.

DISCUSSION: Lucent still object to these CRs, as they do not consider this the most efficient system. One alternative would be long TCAP dialogues.

         Lucas Klostermann (Ericsson) – Cross phase compatibility issues if we do not introduce a solution for R99. Ericsson do not support the long standing TCAP dialogues. Siemens, Nortel, Nokia and Alcatel agreed with this position.

         Nortel Nokia and Alcatel support the CRs

         CN Agreed to approve the CRs and hence the solution for R99.

RESULT: The CRs were **AGREED**

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6   Technical Co-ordination with Others

6.1   Other 3GPP TS_Groups

NP-000117:   **Draft Report of the All-IP Workshop, version 0.0.2.**

RESULT: The document was not presented and may be **NOTED.**

NP-000118:   **SA ALL IP Slides.**

RESULT: The document was not presented and may be **NOTED.**

NP-000142:   **LS on Joint Meeting S3 / CN on Security.** Source Harald.

CONTENTS: **Contains an LS to S3 copied SA and S2 proposing a joint meeting to clarify security requirements for Release 2000.**

         TSG CN working groups were unable to complete the ambitious work on the security features – here especially addressing EUIC and MAP-security. The main reason for that is the late start of the work in CN. It is not worth analysing the history but we all should learn from this and derive consequences for the future.

         Hence it proposed to have a joint meeting between TSG_CN working groups and S3 on the Security requirements for R'00. Such meeting is proposed to take place before TSG#8 (May or 1st half June).

         Main goal of this meeting shall be to have an early involvement of CN working groups in the development of the security features for R'00.

RESULT: The document was **APPROVED to be sent.**

6.2   Other bodies (e.g. SMG)

No input to this agenda item.

6.3   ITU

No input to this agenda item.

7 Project Management

7.1 Work Item Management

No input to this agenda item.

7.2 Specifications within the TSG_CN Domain

NP-000120: **Specifications with the CN Domain.** Presented by David Boswarthick

CONTENTS: Contains an extraction from the specifications database showing those TSs and TRs under the domain of CN and it's working groups.

RESULT: The document was **NOT PRESENTED and MAY BE READ OFF-LINE**

7.3 Working Methods and Work Style

NP-000129: **Usage of SDLs in technical specifications.** Source Ericsson.

CONTENTS: Ericsson proposes to mandate the use of SDLs as normative parts in new stage 2 and stage 3 specifications describing interworking with different nodes and requiring conditional and specific handling of a node. We see that as the only way to produce standards which ensures a proper interworking between vendors and a consistent handling, because of the reasons stated above. Textual description should be used to describe assumptions and workarounds. Ericsson proposes that CN request to the CN-WGs that SDLs shall be normative. If there are normative textual descriptions and SDL descriptions, which are in contradiction to each other, the SDL description shall be regarded as valid. However, existing specifications should not be changed, if the SDL description is already marked as informal.

RESULT: The document was not presented and delegates are asked to **READ OFF_LINE**

NP-000140: **Creation of R00 Specifications.** Source MCC

CONTENTS: Now that the 3GPP specifications for Release 1999 are nearing completion, it is timely to consider the mechanism for moving to Release 2000. MCC proposes a detailed procedure for the creation and maintenance of next-release specifications.

RESULT: The document was not presented and delegates are asked to **READ OFF_LINE**

NP-000191: **Proposed definitions of "Feature", "Building Block" and "Work Task".** Presented by Alain Sultan, S2 Secretary.

CONTENTS: Contains the definitions of terms "Feature", "Building Block" and "Work Task"

DISCUSSION: Clarification on Level of granularity of a Building block.

Alain clarified that "Feature", "Building Block" and "Work Task", can **all** be considered as Work Items**.**

Hannu: How do we initiate new work items / are there new templates?

Alain: The procedure will be the same as now, except the template has been modified to allow the indication or type (feature / Building block / task).

Sumio: How will the maintenance of specifications fit into this model.

Alain: This could be considered as a general Work Item TEI.

Clarification one Building Block can support multiple features.

RESULT: The document was **NOTED**

NP-000192: **Examples of Features, Building Blocks and Work Tasks.** Presented by Alain Sultan, S2 Secretary.

CONTENTS: The document gives a powerpoint presentation of examples of Features, Building Blocks and Work Tasks, as well as time plans for Features.

RESULT: The document was **NOTED**

NP-000190: **Proposal for the Release 2000 IGCs, Features, Building Blocks and Work Tasks v.0.7.** Presented by Alain Sultan, S2 Secretary.

CONTENTS: This document is an initial attempt to describe the work items of R00 in terms of their function as feature, building blocks and work task. The features and building blocks has not yet presented to nor discussed with other WG's.

The definition of features, building blocks and work tasks is described in SP-000109.

A full description of the term work item can be found in the 3GPP Working Procedures (http://www.3gpp.org/About_3GPP/3gpp_wp.zip).

Introduces the idea of a person within S2 who is responsible for individual features.

The TSGs are asked to comment on the proposal, and comments are required well before the closing deadline

DISCUSSION: **Clarification from JMM:** Once the proposal is accepted and stable, ETSI will develop a database tool, that will be made available at TSG#8.

Henry Taylor: What elements will be reused from R99 to be mapped to R00 and beyond?

Alain: The elements for R00 will be based upon R99, with additional features for that new release. Similar for future releases, R01 will be based upon R00.

✎✎ **TSG_N delegates are invited to provide comments to the S2 via email before April 20th.**

Stephen - There is a CN/S2 meeting planned 13th April, that will allow CN to finalise their position with regards to this information.

RESULT: The document was **NOTED**

NP-000164: **Proposed reorganisation of CN working groups.** Presented by Harald

CONTENTS: Contains a proposal for approval on the reorganisation of the CN working groups to cope with the existing work, and also the R00 additional work.

Proposed New TSG_CN structure after CN#7

WG	TOPIC	Chair-Person	
N1	MM/CC/SM	Hannu Hietalahti	Chair
N2	MAP/GTP/BCH/SS (SS – only maintenance expected)	Yun-Chao Hu	Conveyor
N3	Interworking (with external Networks)	Norbert Klehn	Chair
N4	CAMEL	Keijo Palviainen, Nokia proposed	Conveyor
N5	OSA	Lucas Klostermann, Ericsson proposed	Conveyor
N-itu	ITU-T coordination electronic workstyle??!!	Masami Yabusaki (Ian Park)	Chair
N-IP	ad-hoc!! IP / IP-pre-analysis for other CN WG's Interface to S2 and others	--	Conveyor!! – Group Lifetime??

DISCUSSION: It is expected that as the content of R00 and more specifically ALL IP, is defined by S2, the proposed CN structure may not be appropriate, and will need to be revisited.

The introduction of the All IP ad Hoc, should not delay the work until after April, and it was suggested that the existing CN WGs start work on R00 as soon as possible.

Proposed to broaden the scope of N2, to encompass core network signaling and stage 2 specification work. This will be reflected in the in the revised Terms of reference.

Proposed not to create the N-IP Ad Hoc, but the work should continue with joint meetings until TSG#.

Henry Taylor of BT offered to host a meeting for CN delegates in May in order to analyze the output of the April S2/CN meeting before TSG#8. This will maintain momentum on the All IIP work, and allow clear proposals to TSG_N in June.

It was agreed that the old N2 would convene in a plenary on May 22 before being dissolved and breaking into the new structure.

Sumio: Mentioned that the naming of N2/N4 as proposed causes problems with the various servers This was accepted and the naming of the N2 and N4 groups was exchanged.

With all of these comments the new structure of CN Working Groups after TSG#7 is as follows: -

WG	TOPIC	Chair-/ Conveyor	MCC Support
N1	MM/CC/SM	Hannu Hietalahti (Chair)	Ban Al Bakri
N2	CAMEL	Keijo Palviainen (Proposed Conveyor)	Monica Hellman
N3	Interworking (with external networks) (with external Networks)	Norbert Klehn (Chair)	David Boswarthick
N4	MAP/GTP / BCH/SS (SS - only maintenance expected)	Yun-Chao Hu (Proposed Conveyor)	Franco Settimo
N5	OSA	Lucas, Klostermann (Proposed Conveyor)	Monica Hellman
N-itu	ITU-T coordination electronic workstyle??!!	Masami Yabusaki (Ian Park)	none

Note Ban Al Bakri will support the All IP joint meetings.

The convenors/chairs of these new groups are invited to draft new terms of reference to be presented to TSG#8.

RESULT: The document was **DISCUSSED** and the revised proposal was **AGREED.**

7.4 Support Arrangements

The details of MCC support for the new groups are given above.

7.5 Other Issues

No input to this agenda item.

8   Election of TSG_CN Officials

8.1   Election of TSG_CN chairman (Monday 12:30).

Due to the departure of Harald Dettner from the position of chairman of TSG_N, the elections for candidates for his successor were carried out during TSG_N#7.

The vote had been announced several weeks previously by email, and the procedure for the election is presented in **NP-000017.**

Also the support material for the three candidates was provided in **NP-000102, 134, and 135.**

NP-000017:   Procedure for the Election of CN Chair, and Vice Chairman.

RESULT: The document was **NOTED**

Before beginning the vote, Harald explained an issue relating to the election of the new Chairman. A discussion has been under way on the PCG exploder, regarding the duration of the term for the new CN chairman. It is possible that the new CN Chairman's term of office continues:-

- until the end of the current term (March 2001)

or

- for a full 2 years

This situation is not yet clarified by the PCG although clarification on this is expected by PCG before TSG#11.

Harald asked the TSG_N delegates if it is acceptable to continue under these conditions

There were no objections and the vote continued.

Candidates presented for CN Chairman:

Candidate	Company	Org	Status at Election
Stephen HAYES	**Ericsson**	**T1**	**Only Candidate Remaining at the time of the election**
Mikko KANERVA	**Nokia**	**ETSI**	**Withdrew Candidate week before election**
Ian PARK	**Vodafone AirTouch**	**ETSI**	**Withdrew Candidate just before election**

The status of the candidates the time of the election for CN chairman is given in the above table.

It can be seen that considering the content of Article 22 of the 3GPP Working Procedures, the two candidates from ETSI Organizational partners stood down before the election.

??   **Stephen Hayes was voted as the new TSG_N Chairman by acclamation.**

8.2   Election of TSG_CN Vice chair (Tuesday approx 15:30)

Due to the vacancy created by Stephen Hayes being elected for Chairman, a subsequent Vice chairman election was held on the Tuesday of the TSG_N#7 meeting.
There were two candidates for the position of CN Vice chairman, both from ETSI member companies. The results after the 1st round is given in the table below: -

Election for CN Vice Chairman:

Candidate	Company	Org	Status at Election
Mikko KANERVA	Nokia	ETSI	12 Votes 32%
Ian PARK	Vodafone AirTouch	ETSI	26 Votes 68%

Although no single candidate obtained the 71% required to win the 1st ballot, Mikko Kanerva graciously stood down.

> ✍✍ **Ian Park was voted as the new TSG_N Vice Chairman .**

9   Postponed Issues

NP-000119:   **CR against 24.080 on introduction of Multicall**

CONTENT: Contains a CR to 24.080 that has not been seen by NSS and is presented to the TSG_N meeting directly. The CR is for the introduction of Multicall.

RESULT: The CRs were **APPROVED**

NP-000167:   **ASCI CRs**

CONTENT: Request to allow electronic approval until 31st March, and these will be distributed to the N1 exploder for review.

RESULT: The CRs were put on **E-mail APPROVAL until 31st March.**

The CRs were subsequently approved without Comments

10 Work plan and Future Meetings

The following table gives the meeting dates for future TSG_N Meetings

TSG and Location	Dates (for TSG_N)	Dates (for TSG_SA)	Comments
S2/CN R00 Helsinki	13th – 14th April 2000		
TSG_N#8 Dusseldorf	**21st – 23rd June 2000**	**26th – 28th June 2000**	**Dates Changed**
TSG_N#9 Hawaii	**20th – 22nd September 2000**	**25th – 27th September 2000**	**Dates Changed**
TSG_N#10 Bangkok	6th – 8th December 2000	11th – 13th December 2000	
TSG_N#11 (USA)?	14th – 16th March 2001	19th – 21st March 2001	Possible Host
TSG_N#12	13th – 15th June 2001	18th – 20th June 2001	No Host
TSG_N#13	26th –28th September 2001	1st 3rd September 2001	No Host
TSG_N#14	12th – 14th December 2001	17th –19th December 2001	Ho Host

11 Any Other Business

No input to this agenda item.

12 Close of Meeting

At the closing of the meeting Harald thanked the delegates for their hard work throughout the year, and also all of the meeting hosts and support staff. Harald especially thanked Telefonica for the excellent hosting facilities that were provided for this Plenary meeting.

As this was his last meeting as TSG_N chairman, Harald also thanked the people who have helped and advised him throughout his time in the job, In particular Michel Mouly, Peter van der Arend, and Fred Hillebrand.

As a small gesture of thanks for all that Harald has done for GSM/UMTS standardisation, and the industry in general, Masami presented him with a gift on the behalf of the CN delegates.

The 7th CN Plenary Meeting closed at 12:40 on Wednesday 15th March 2000.

ANNEX A: OUTPUT MATERIAL

A.1 Liaison Statements

The following Liaison Statements will be sent from the TSG_CN Meeting:

DOC NP-00	Subject	To	Cc	Attachment	Sent
0136	CAMEL functions to be included in Release 2000	S1		N	20/03/00
0142	Proposal for Join meeting CN/S3	S3	SA and , S2	N	15/03/00
0193	Organisation of the work on VHE/OSA Release 2000	SA, S2	CN OSA Ad-hoc	N	15/03/00
SP-000137	Standardization/Specification of NNI (Network to Network Interface)	SA		N	15/03/00
SP-000138	Meeting on Cooperation with ITU Meeting on Cooperation with ITU- - T SG11	SA		N	15/03/00

Note the two SP-000 documents were not seen by TSG_CN and were input directly to TSG_SA by Masami

A.2 Work Items

The following New/Revised Work Items were approved by TSG_CN:

DOC NP-00	Subject	Release	1st Respo.	2nd Respo.	Delivery
0051	Revised W.I for Multimedia	R00	N3		R00

A.3 New Specifications / Technical Reports

The following specifications / technical report were approved by TSG_CN. Their status after the meeting is indicated in this table:

DOC NP-00	Type	Number	Subject	Version* @ TSG#7	WG
0103	TR	23.972	Multimedia	3.0.0	N1
0169	TS	23.116	Supercharger Stage 2	3.0.0	N2
0108	TS	23.119	GLR Stage 2	3.0.0	N2
0107	TS	29.119	GTP for GLR	3.0.0	N2
0109	TS	29.120	MAP for GLR	3.0.0	N2
0053	TR	23.146	CS Data Bearer Services	3.0.0	N3
0023	TS	23.135	Multicall Stage 2	3.0.0	NSS
0024	TS	24.135	Multicall Stage 3	3.0.0	NSS

* Indicates the status resulting from TSG#7

ANNEX B: Participants List for CN#7

Name	e-mail	Represented Organisation	Status
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Mr. Niels Peter Skov Andersen	npa001@email.mot.com	MOTOROLA A/S	3GPPMEMBER - ETSI
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ANNEX C: List of Documents

Tdoc	Title / Content	Source	Agenda Item	Replaced by
NP-000015	CN R00 DRAFT Meeting Report v200	MCC	5.7	
NP-000016	TSG_N#7 Draft Agenda	CN Chair	2	132
NP-000017	Election Procedure for CN chariman	Harald Dettner	8	
NP-000018	TSG_N#6 Draft Meeting report	MCC	3	
NP-000019	LS - Transport mechanisms for Generic Addressing and Transport (GAT) protocol	Span 5	4.3	
NP-000020	(S3-000077) LS from S3 on MAP	S3	4.2	
NP-000021	SS ad hoc meeting report#5	NSS	5.1	
NP-000022	Multicall stage 2	NSS	5.4	
NP-000023	Multicall stage 3	NSS	5.4	
NP-000024	CRs- WI Call Forwarding Enhancement	NSS	5.4	
NP-000025	CRs- WI CAMEL phase 3	NSS	5.4	
NP-000026	CRs- WI Follow Me	NSS	5.4	
NP-000027	CRs- WI LCS	NSS	5.4	
NP-000028	CRs- WI MSP phase2	NSS	5.4	
NP-000029	LS (N1-000445) Access signaling and mobile station behaviour for Multicall	N1	4.1	
NP-000030	LS (NP-000014) Outstanding Issues for CN R00	CN R00 AdHoc	4.1	
NP-000031	Meeting Report N2#9, (N2A)	N2	5.2.1	
NP-000032	CRs TE&I	N2	5.2.1	
NP-000033	CRs- WI CAMEL phase 2	N2	5.2.3	
NP-000034	CRs- WI CAMEL phase 3 (23.078)- part 1	N2	5.2.3	
NP-000035	CRs- WI CAMEL phase 3 (23.078)- part 2	N2	5.2.3	
NP-000036	CRs- WI CAMEL phase 3 (23.078)- part 3	N2	5.2.3	
NP-000037	CRs- WI CAMEL phase 3 (29.078)	N2	5.2.3	
NP-000038	(N1-000481) LS on MULTICALL	N1	4.1	
NP-000039	(S3-000077) LS on MAP security	S3	4.2	
NP-000040	(S3-99554) LS on security issues in VHE/OSA	S3	4.2	
NP-000041	N3 Status Report	N3	5.3.1	
NP-000042	CN3#8 DRAFT Meeting Report (Sophia)	N3	5.3.3	
NP-000043	All LSs from N3 since TSG#6	N3	5.3.3	
NP-000044	All CRs to WI CS Data since TSG#6	N3	5.3.3	
NP-000045	All CRs to WI FTM since TSG#6	N3	5.3.3	
NP-000046	All CRs to WI Multimedia since TSG#6	N3	5.3.3	
NP-000047	All CRs to WI Point to Multipoint since TSG#6	N3	5.3.3	
NP-000048	All CRs to WI R99 Service Clean up since TSG#6	N3	5.3.3	
NP-000049	All CRs to WI Streamlining since TSG#6	N3	5.3.3	
NP-000050	All CRs to WI UMTS since TSG#6	N3	5.3.3	
NP-000051	W.I Sheet for Multimedia	N3	5.3.3	
NP-000052	TR 23.146	N3	5.3.3	
NP-000053	TR 23.910	N3	5.3.3	
NP-000054	LS - mechanism for reporting authentication failures from VLR/SGSN to HLR (S3-99537)	S3	4.2	
NP-000055	CRs WI Call Forwarding Enhancements	N2	5.2.3	
NP-000056	TS 29.1xx, 3GPP; TSG CN; OSA; API, Part 1, Version 1.0.0	OSA -ad hoc	5.5	
NP-000057	TR 29.9xx, 3GPP; TSG CN; OSA; API, Part 2, Version 1.0.0	OSA-ad hoc	5.5	
NP-000058	Status Report Open Service Architecture - Stage 3	OSA-ad hoc	5.5	
NP-000059	Liaison Statements	OSA -ad hoc	5.5	
NP-000060	Meeting Report CN OSA#03, Tilburg, The Netherlands	OSA-ad hoc	5.5	
NP-000061	Meeting Report CN OSA #04, Sophia Antipolis, France	OSA-ad hoc	5.5	
NP-000062	Meeting Report CN OSA #05, Antwerp, Belgium	OSA-ad hoc	5.5	

NP-000063	CRs- ASCI Phase 2	N2	5.2.3	
NP-000064	CRs- CAMEL Phase 2	N2	5.2.3	
NP-000065	CRs- CAMEL Phase 3	N2	5.2.3	
NP-000066	CRs Call Forwarding Enhancements	N2	5.2.3	
NP-000067	CRs GPRS	N2	5.2.3	
NP-000068	CRs GSM/UMTS interworking	N2	5.2.3	
NP-000069	CRs GTP enhancements	N2	5.2.3	
NP-000070	CRs Handover	N2	5.2.3	
NP-000071	CRs LCS	N2	5.2.3	
NP-000072	CRs MNP	N2	5.2.3	
NP-000073	CRs Multicall	N2	5.2.3	
NP-000074	CRs PCS1900 Harmonisation	N2	5.2.3	
NP-000075	CRs Pre-paging	N2	5.2.3	
NP-000076	CRs Security	N2	5.2.3	NP-000133
NP-000077	CRs QoS enhancements	N2	5.2.3	
NP-000078	CRs SoLSA	N2	5.2.3	
NP-000079	CRs TE&I	N2	5.2.3	
NP-000080	Liaison Statements agreed in CN 2B since CN#6	N2B	5.2.1	
NP-000081	TSGN-WG1 Status report	CN1 Chairman	5.1.1	
NP-000082	Terms Of References (TOR) for TSGN-WG1	CN1	5.1.2	
NP-000083	R99 WI-Status Sheet for Security	CN1	5.8.1	
NP-000084	R99 WI-Sheet for Multicall	CN1	5.8.1	
NP-000085	R99 WI-Sheet for Out of Band Transcoder Control (Transport of Codec Informations)	CN1	5.8.1	
NP-000086	R99 WI-Sheet for GSM – UMTS Interworking	CN1	5.8.1	
NP-000087	R99 WI-Sheet for QoS	CN1	5.8.1	
NP-000088	R99 WI-Sheet for Multimedia	CN1	5.8.1	
NP-000089	CRs- on WI ASCI	CN1	5.1.3	
NP-000090	CRs- on WI EDGE	CN1	5.1.3	
NP-000091	CRs- on WI GPRS	CN1	5.1.3	
NP-000092	CRs- on WI GSM/UMTS Interworking part-1	CN1	5.1.3	
NP-000093	CRs- on WI GSM/UMTS Interworking part-2	CN1	5.1.3	
NP-000094	CRs- on WI MS Classmark	CN1	5.1.3	
NP-000095	CRs- on WI Multicall	CN1	5.1.3	
NP-000096	CRs- on WI Multimedia	CN1	5.1.3	
NP-000097	CRs- on WI NITZ	CN1	5.1.3	
NP-000098	CRs- on WI Out of Band Transcoder	CN1	5.1.3	
NP-000099	CRs- on WI QoS	CN1	5.1.3	
NP-000100	CRs- on WI Security	CN1	5.1.3	
NP-000101	CRs- on WI TEI	CN1	5.1.3	
NP-000102	Candidature Material for Ian Park	MCC	8	
NP-000103	Multimedia report TR23.972 V1.0.0	CN1	5.1.3	
NP-000104	Liaison Statements agreed i n CN1 since CN#5	CN1	5.1.1	
NP-000105	CN1#10 Meeting Report	MCC	5.1.1	
NP-000106	CN1#11 Draft Meeting Report	MCC	5.1.1	
NP-000107	GPRS Tunnelling Protocol (GTP) specification for GLR (3G TS 29.119 version 2.0.0)	N2	5.2.3	
NP-000108	Gateway Location Register (GLR) - Stage2 (3G TS 23.119 version 2.0.0)	N2	5.2.3	
NP-000109	Mobile Application Part (MAP) specification for GLR (3G TS 29.120 version 2.0.0)	N2	5.2.3	
NP-000110	Super-Charger Technical Realisation; Stage 2 (3G TS 23.116 version 2.1.0)	N2	5.2.3	

NP-000111	Out of Band Transcoder Control - Stage 2;(3G TS 23.153 version 2.0.0)	N2	5.2.3	
NP-000112	CRs WI CAMEL phase 2	NSS	5.4.3	
NP-000113	CRs WI TEI	N2	5.2.3	
NP-000114	Out of Band Transcoder Control Stage 2 Clarification of Release'99 Functionality	NORTEL		
NP-000115	LS from GSM NA on ALL IP Issues	GSM NA	4.3	
NP-000116	ITU-T Q.1701 Supplement	ITU-T	6.3	
NP-000117	Draft Report of the All-IP Workshop, version 0.0.2	SA ALL IP Ad hoc		
NP-000118	SA ALL IP Slides	SA ALL IP Ad hoc		
NP-000119	CR against 24.080 on introduction of Multicall	NTT DoCoMo		
NP-000120	List of All Spec under CN SMG3 domain	MCC		
NP-000121	GSMA ISG activity on Typical Radio Parameter sets	GSMA ISG	4.3	
NP-000122	Typical Radio Parameter Sets Document submission	GSMA ISG	4.3	
NP-000123	Realse 99 finalisation	NTT DoCoMo	5.8.2	WITHDRAWN
NP-000124	Completion of Release 99	BT	5.8.2	
NP-000125	CN Structure & Objectives for Release 2000	BT	5.8.2	
NP-000126	Status report of N2 to CN #7	N2	5.2.1	
NP-000127	Status of Work Items handled in N2	N2	5.2.1	
NP-000128	Discussion Paper; Current state of 23.146	Ericsson	5.3.3	
NP-000129	Usage of SDLs in technical specifications	Ericsson	7.3	
NP-000130	Notification response as an RR message	ASCI rapporteurs	5.3	
NP-000131	Notification response from MM to GSM (CRs to 04.08)	ASCI rapporteurs	5.3	WITHDRAWN
NP-000132	TSG_N#7 Draft Agenda	CN Chair	2	Rev of 0016
NP-000133	CRs Security	N2	5.2.3	Rev of 0076
NP-000134	Candidature Material for Stephen Hayes	MCC	8	
NP-000135	Candidature Material for Mikko Kanerva	MCC	8	
NP-000136	LS to SA1 on items CAMEL R00	Ian Park		
NP-000137	Status of security CRs exclu. EUIC	Ian Park		
NP-000138	EUIC CRs from N2	Ian Park		
NP-000139	LS from T1P1 on LCS	T1P1		
NP-000140	Creation of R00 Specifications	MCC	7.3	
NP-000141	Summary of R00 Ad Hoc discussion	MCC		
NP-000142	LS on Joint Meeting S3 / CN on Security	Harald	6.1	
NP-000143	CR to 29.002 CR048r5 Introduction of Multicall	N2	5.2.3	
NP-000144	Removal of UI in the monitoring state	Siemens	5.2.3	
NP-000145	N3 Work Item Status sheets	Norbert		
NP-000146	Revision of SP-99639	Harry		
NP-000147	Final Meeting report from TSG_N#6	D. Boswarthick (MCC)		NP-000018
NP-000148	Final Meeting report from CN Roo Ad Hoc meeting Mexico	D. Boswarthick (MCC)		NP-000015
NP-000149	*Spare*			
NP-000150	*Spare*			
NP-000151	*Spare*			
NP-000152	*Spare*			
NP-000153	*Spare*			
NP-000154	*Spare*			
NP-000155	*Spare*			
NP-000156	Attachment to "R99 WI-Sheet for GSM – UMTS Interworking" (NP-000086)	CN1	5.8.1	
NP-000157	CR 24.008-118r4 on integrity checking of MM & GMM messages	Vodafone Airtouch	5.1.3	
NP-000158	CAMEL functions to be included in release 2000?	CN2 Chairman	5.2.2	
NP-000159	Request to Include T1P1 Number Portability Harmonization CRs in R99	VoiceStream Wireless, Aerial, BellSouth, Nokia, SBC Communications	5.2, 5.8	

NP-000160	*CRs- WI CAMEL phase 3 (23.078)- part 1*	*N2*	*5.2.3*	
NP-000161	*CRs- WI CAMEL phase 3 (29.078)*	*5.2.3*	*5.2.3*	
NP-000162	Ls from N2A	CN2A	5.2.1	
NP-000163	Summary Report of the TSG CN SS ad hoc meeting	SS ad hoc		
NP-000164	Proposed reorganisation of CN WGs	CN Chairman	7.3	
NP-000165	CR 072R4clarification on the use of the GTP header	Ericsson and NEC		
NP-000166	ASCI service CRs for CN#7 submission	ASCI rapporteurs		
NP-000167	VGCS Downlink Muting	ASCI rapporteurs		
NP-000168	Standardization/Specification of NNI (Network-to-Network Interface) standardization with Other IMT-2000 Family Member Systems	TSG-N Vice chairman (ITU-T SG11 Q.23 rapporteur	11.1	
NP-000169	Super-Charger Stage 2	N2	5.X.X.	
NP-000170	LCS in Release 99	3GPP S2 co-ordinator on location services in UMTS	5.8.1	
NP-000171	Global "Cause of no ID"	Nokia	5.4	
NP-000172	Status of OSA work item	Nokia	5.5	
NP-000173	Proposed Enhanced IMEI Coding Format	Nokia	5.8.1	
NP-000174	23.003 017 R2	Mannesmannn		
NP-000175	02.03 A041V1	Mannesmannn		
NP-000176	03.03 A40R1	Mannesmannn		
NP-000177	03.03 A039 R1	Mannesmannn		
NP-000178	03 03 A038R1	Mannesmannn		
NP-000179	CRs to 3G WI Security on enhanced IMEI Security	Mannesmannn		
NP-000180	VHE/OSA Release 99	Siemens, Ericsson, Lucent	5.5	
NP-000181	VHE/OSA Stage 2 and Stage 3 activities for R'00	Siemens, Ericsson, Lucent	5.5	
NP-000182	Background information on OSA release 99	Ericsson LM		
NP-000183	CRs to 3G Work Item CAMEL Phase 3 related to User Interaction during Monitoring State	TSG CN WG2		
NP-000184	Cooperation with ITU-T SG11	TSG-N Vice chairman (ITU-T Coordination Adhoc Chair, ITU-T SG11 Q.23 rapporteur)	5.6, 6.3	
NP-000185	Cooperation with ITU-T SG11	TSG-N Vice chairman (ITU-T Coordination Adhoc Chair, ITU-T SG11 Q.23 rapporteur)	5.6, 6.3	
NP-000186	Addition to NP-00098 Changes to support CS multimedia call	TSG N1	5.2.1	
NP-000187	Proposal on User Interaction in Monitoring	Siemens		
NP-000188	CRs on TCAP dialogue management for CAMEL control of GPRS	CN2		
NP-000189	Technical Implementation on Cause of No ID in R99	NTT DoCoMo	5.4	
NP-000190	Proposal for the Release 2000 IGCs, Features, Building Blocks and Work Tasks v.0.7	TSG SA WG2 Intergroup coordination chair persons ad-hoc meeting		
NP-000191	Proposed definitions of "Feature", "Building Block" and "Work Task"	ETSI MCC		
NP-000192	Examples of Features, Building Blocks and Work Tasks	Siemens and TSG SA WG2 Intergroup coordination chair persons		
NP-000193	Proposed LS on organisation of the work on VHE/OSA release 2000	Ericsson LM		

ANNEX D: List of CRs Approved by TSG_CN#7

WG	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	tdoc
N1	03.68	A014		R97	VGCS Signalling Flows	F	6.1.0	6.2.0	NP-000089
N1	03.68	A015		R97	Data Flow for Fast Call setup	F	6.1.0	6.2.0	NP-000089
N1	03.68	A016		R98	VGCS Signalling Flows	A	7.0.0	7.1.0	NP-000089
N1	03.68	A017		R99	VGCS Signalling Flows	A	8.0.0	8.1.0	NP-000089
N1	03.68	A018		R98	Data Flow for Fast Call setup	A	7.0.0	7.1.0	NP-000089
N1	03.68	A019		R99	Data Flow for Fast Call setup	A	8.0.0	8.1.0	NP-000089
N1	03.68	A020		R97	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	F	6.1.0	6.2.0	NP-000167
N1	03.68	A021		R98	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	A	7.0.0	7.1.0	NP-000167
N1	03.68	A022		R99	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	A	8.0.0	8.1.0	NP-000167
N1	03.69	A013		R97	Data Flow for Fast Call setup	F	6.1.0	6.2.0	NP-000089
N1	03.69	A014		R98	Data Flow for Fast Call setup	A	7.0.0	7.1.0	NP-000089
N1	03.69	A015		R99	Data Flow for Fast Call setup	A	8.0.0	8.1.0	NP-000089
N1	04.08	A1001		R97	Addition of cause value #25 'Pre-emption'	F	6.8.0	6.9.0	NP-000089
N1	04.08	A1003		R97	GPRS detach type corrections	F	6.8.0	6.9.0	NP-000091
N1	04.08	A1005		R98	Addition of cause value #25 'Pre-emption'	A	7.5.0	7.6.0	NP-000089
N1	04.08	A1007		R98	GPRS detach type corrections	A	7.5.0	7.6.0	NP-000091
N1	04.08	A1009		R96	Moving NOTIFICATION RESPONSE from MM to GSM RR	F	5.14.0	5.15.0	NP-000130
N1	04.08	A1011		R97	Moving NOTIFICATION RESPONSE from MM to GSM RR	A	6.8.0	6.9.0	NP-000130
N1	04.08	A1013		R98	Moving NOTIFICATION RESPONSE from MM to GSM RR	A	7.5.0	7.6.0	NP-000130
N1	04.08	A947	2	R96	Clarification of NITZ time stamp coding	F	5.14.0	5.15.0	NP-000097
N1	04.08	A949	1	R97	Clarification of NITZ time stamp coding	A	6.8.0	6.9.0	NP-000097
N1	04.08	A951	1	R98	Clarification of NITZ time stamp coding	A	7.5.0	7.6.0	NP-000097
N1	04.08	A953		R97	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	F	6.8.0	6.9.0	NP-000091
N1	04.08	A955		R98	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	A	7.5.0	7.6.0	NP-000091
N1	04.08	A957	2	R97	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	F	6.8.0	6.9.0	NP-000091
N1	04.08	A959	1	R98	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	A	7.5.0	7.6.0	NP-000091
N1	04.08	A961	2	R97	Usage of Combined Procedures during CM service reject	F	6.8.0	6.9.0	NP-000091
N1	04.08	A963	1	R98	Usage of Combined Procedures during CM service reject	A	7.5.0	7.6.0	NP-000091
N1	04.08	A973	1	R97	Clarification to the MS handling when receiving detach type 'IMSI detach'	F	6.8.0	6.9.0	NP-000091
N1	04.08	A975	1	R98	Clarification to the MS handling when receiving detach type 'IMSI detach'	A	7.5.0	7.6.0	NP-000091
N1	04.08	A985		R97	Explanation of octets in MS Classmark 1 IE (R97)	F	6.8.0	6.9.0	NP-000094
N1	04.08	A987		R98	Explanation of octets in MS Classmark 1 IE (R98)	A	7.5.0	7.6.0	NP-000094
N1	04.68	A021		R96	Addition of cause values	F	5.4.0	5.5.0	NP-000089
N1	04.68	A022		R97	Addition of cause values	A	6.2.0	6.3.0	NP-000089
N1	04.68	A023		R98	Addition of cause values	A	7.1.0	7.2.0	NP-000089
N1	04.68	A024		R99	Addition of cause values	A	8.0.0	8.1.0	NP-000089
N1	04.69	A018		R96	Addition of cause values	F	5.4.0	5.5.0	NP-000089
N1	04.69	A019		R97	Addition of cause v lues	A	6.2.0	6.3.0	NP-000089
N1	04.69	A020		R98	Addition of cause values	A	7.1.0	7.2.0	NP-000089
N1	04.69	A021		R99	Addition of cause values	A	8.0.0	8.1.0	NP-000089
N1	09.18	A043		R97	Correction of Gs Cause	F	6.5.0	6.6.0	NP-000091
N1	09.18	A044		R98	Correction of Gs Cause	F	7.2.0	7.3.0	NP-000091
N1	23.009	003		R99	Functional requirements for the use of RANAP over the E i/f	B	3.1.0	3.2.0	NP-000092
N1	23.009	004		R99	Procedures for 3G_MSC-B_HO	C	3.1.0	3.2.0	NP-000093
N1	23.009	005		R99	Procedures for 3G_MSC-A_HO	C	3.1.0	3.2.0	NP-000093
N1	23.009	006		R99	Introduction of RANAP for intra-UMTS inter-MSC relocation	C	3.1.0	3.2.0	NP-000092
N1	23.009	007		R99	Clarifications of 3G_MSC-A and 3G_MSC-B roles	A	3.1.0	3.2.0	NP-000092
N1	23.009	008	2	R99	Transcoder handling in the CN at inter-system handover and relocation	B	3.1.0	3.2.0	NP-000098
N1	23.034	003	2	R99	Modifications to Stage 2 service des iption due to EDGE	B	3.1.1	3.2.0	NP-000090

WG	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	tdoc
N1	23.034	004	1	R99	Support of high speed data in UMTS/UTRAN	C	3.1.1	3.2.0	NP-000093
N1	23.108	004		R99	Clarification on timing to release TCH	C	3.1.0	3.2.0	NP-000095
N1	23.122	004	1		UTMS references in 23.122	D	3.1.1	3.2.0	NP-000101
N1	24.007	006	1	R99	Updating Session Management (SM) for R99	C	3.2.0	3.3.0	NP-000093
N1	24.007	007		R99	Removal of Anonymous Access	C	3.2.0	3.3.0	NP-000093
N1	24.007	008		R99	PMMSMS-REL-Req deletion in MS side	C	3.2.0	3.3.0	NP-000093
N1	24.007	010	1	R99	Addition of integrity protection feature	C	3.2.0	3.3.0	NP-000100
N1	24.008	032	10	R99	Addition of the Stream Identifier Information Element	B	3.2.1	3.3.0	NP-000095
N1	24.008	049	4	R99	Support of 400 and 850 MHz band	B	3.2.1	3.3.0	NP-000090
N1	24.008	091	1	R99	Timer control for GPRS detach	A	3.2.1	3.3.0	NP-000091
N1	24.008	093		R99	UMTS security parameters, Handling of Ciphering algorithm IE in UMTS	C	3.2.1	3.3.0	NP-000100
N1	24.008	094		R99	UMTS security parameters, Correction of format for IE "Response from SIM"	F	3.2.1	3.3.0	NP-000100
N1	24.008	095	1	R99	UMTS security parameters, Combined reject causes for CS and PS	C	3.2.1	3.3.0	NP-000100
N1	24.008	096	1	R99	Clarification of NITZ time stamp coding	A	3.2.1	3.3.0	NP-000097
N1	24.008	097	1	R99	Changes to support a circuit switched multimedia call.	B	3.2.1	3.3.0	NP-000186
N1	24.008	097	3	R99	Changes to support a circuit switched multimedia call	B	3.2.1	3.3.0	NP-000096
N1	24.008	099	1	R99	Authentication Reject from MS	C	3.2.1	3.3.0	NP-000100
N1	24.008	107	1	R99	Abnormal cases in Service Request procedure	B	3.2.1	3.3.0	NP-000092
N1	24.008	109		R99	Service Request procedure in the chapter 4.1.1.	B	3.2.1	3.3.0	NP-000093
N1	24.008	111		R99	Removal of Anonymous Access	C	3.2.1	3.3.0	NP-000093
N1	24.008	113	1	R99	Abnormal cases for TFT handling, TFT IE maximum length	F	3.2.1	3.3.0	NP-000099
N1	24.008	114	3	R99	Compact coding of QoS IE	C	3.2.1	3.3.0	NP-000099
N1	24.008	116	1	R99	Paging response in 4.7.9	F	3.2.1	3.3.0	NP-000093
N1	24.008	117		R99	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	A	3.2.1	3.3.0	NP-000091
N1	24.008	118	4	R99	Integrity checking of MM and GMM messages	C	3.2.1	3.3.0	NP-000157
N1	24.008	119	1	R99	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	A	3.2.1	3.3.0	NP-000091
N1	24.008	120	1	R99	Usage of Combined Procedures during CM service rejec	A	3.2.1	3.3.0	NP-000091
N1	24.008	123		R99	GSM Cleanup - Removal of V.23	C	3.2.1	3.3.0	NP-000101
N1	24.008	125	1	R99	Alignment of the procedure "Authentication not accepted by the MS" in MM and GMM.	C	3.2.1	3.3.0	NP-000100
N1	24.008	127		R99	Clarification to the MS handling when receiving detach type 'IMSI detach'	F	3.2.1	3.3.0	NP-000092
N1	24.008	129	2	R99	Proposal of classmark 1 and 2 for UMTS version2	F	3.2.1	3.3.0	NP-000094
N1	24.008	130	1	R99	Proposal for network capability for UMTS	F	3.2.1	3.3.0	NP-000094
N1	24.008	131	1	R99	Extended Transaction Identifier	F	3.2.1	3.3.0	NP-000101
N1	24.008	133	1		Marking ASCI des iptions	D	3.2.1	3.3.0	NP-000089
N1	24.008	134	1		Clarifying the presence of the Classmark 2 IE in the LOCATION UPDATE REQUEST message	C	3.2.1	3.3.0	NP-000094
N1	24.008	135	1	R99	BCIE changes to support high speed data in UMTS/UTRAN	C	3.2.1	3.3.0	NP-000092
N1	24.008	139	1	R99	Collision of network initiated Detach with the attach and RAU procedure	A	3.2.1	3.3.0	NP-000091
N1	24.008	140		R99	Conditions when to start the GMM timer T3321	A	3.2.1	3.3.0	NP-000091
N1	24.008	141		R99	SM IEI value	F	3.2.1	3.3.0	NP-000093
N1	24.008	142	1	R99	Initial value for T3302	F	3.2.1	3.3.0	NP-000092
N1	24.008	144		R99	NAS System Information with T3312 included in the CS domain specific part	C	3.2.1	3.3.0	NP-000093
N1	24.008	145	1	R99	Intersystem change GSM <-> UMTS	C	3.2.1	3.3.0	NP-000092
N1	24.008	146	1	R99	Paging response in UMTS	C	3.2.1	3.3.0	NP-000093
N1	24.008	147		R99	Corrections to Service Request procedure	C	3.2.1	3.3.0	NP-000092
N1	24.008	152	2	R99	Modification of MS Classmark 1 and 2	C	3.2.1	3.3.0	NP-000094
N1	24.008	155	1	R99	Alignment of the AUTN and Authentication Failure Parameter length	C	3.2.1	3.3.0	NP-000100
N1	24.008	157	2	R99	Multicall Information in Call Control Capability IE	C	3.2.1	3.3.0	NP-000095
N1	24.008	158	1	R99	Duplicated PDP context activation	C	3.2.1	3.3.0	NP-000092
N1	24.008	159	1	R99	Presence of TFT IE in Activate Secondary PDP Context Request	C	3.2.1	3.3.0	NP-000093
N1	24.008	160		R99	Correction of length of TI	D	3.2.1	3.3.0	NP-000092
N1	24.008	162	1	R99	Deletion/modification of primary PDP context	F	3.2.1	3.3.0	NP-000099
N1	24.008	163	1	R99	Clarifications on the GMM Authentication procedure	F	3.2.1	3.3.0	NP-000100
N1	24.008	164		R99	Handling of GPRS keys at intersystem change	F	3.2.1	3.3.0	NP-000100
N1	24.008	165		R99	Handling of CS keys at intersystem change	F	3.2.1	3.3.0	NP-000100
N1	24.008	168	2	R99	DRX parameter for UMTS	C	3.2.1	3.3.0	NP-000092

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N1	24.008	170		R99	Correction of static conditions of BC IE contents	F	3.2.1	3.3.0	NP-000101
N1	24.008	171	2	R99	Clarifications on the MM Authentication procedure	F	3.2.1	3.3.0	NP-000100
N1	24.008	177		R99	Addition of cause value #25 'Pre-emption'	A	3.2.1	3.3.0	NP-000089
N1	24.008	178	2	R99	Introduction of NW CC Capability for Multicall	B	3.2.1	3.3.0	NP-000095
N1	24.008	179		R99	Correction of Service request procedure after the colition with Detach procedure	F	3.2.1	3.3.0	NP-000092
N1	24.008	180	1	R99	Introduction of UMTS AMR	B	3.2.1	3.3.0	NP-000098
N1	24.008	181		R99	Removal of X.25 for packet domain services	C	3.2.1	3.3.0	NP-000101
N1	24.008	182	2	R99	Usage of cause code IE in network initiated detach	A	3.2.1	3.3.0	NP-000091
N1	24.008	183		R99	Moving NOTIFICATION RESPONSE from MM to GSM RR	A	3.2.1	3.3.0	NP-000130
N1	24.011	003	1	R99	SMC-GP SDL modification to transfer SMS messages via GMM	C	3.1.0	3.2.0	NP-000093
N1	24.011	004	1	R99	Reintroduction of deleted arrow diagrams	F	3.2.0	3.3.0	NP-000101
N1	24.011	005	-	R99	Cleaning up the References	D	3.1.0	3.2.0	NP-000101
N1	29.018	003	2	R99	SGSN reaction upon a RAU request after VLR failure	A	3.2.0	3.3.0	NP-000091
N1	29.018	007	3	R99	Introduction of the Service Area Identification	B	3.2.0	3.3.0	NP-000101
N1	29.018	009		R99	Encoding of MS classmark in LUP Request	F	3.2.0	3.3.0	NP-000091
N2	03.03	A038	1	R98	Modification of section 6.2 to enhance IMEI security	C	7.3.1	7.4.0	NP-000178
N2	03.03	A039	1	R97	Modification of section 6.2 to enhance IMEI security	C	6.4.1	6.5.0	NP-000177
N2	03.03	A040	1	R96	Modification of section 6.2 to enhance IMEI security	C	5.2.0	5.3.0	NP-000176
N2	03.03	A041	1	Ph2	Modification of section 6.2 to enhance IMEI security	C	4.9.0	4.10.0	NP-000175
N2	03.08	A030		R98	Correction of LSA Information	F	7.2.0	7.3.0	NP-000078
N2	03.08	A031	1	R97	Addition of PDP Context Identifier	F	6.3.0	6.4.0	NP-000067
N2	03.08	A032	1	R98	Addition of PDP Context Identifier	A	7.2.0	7.3.0	NP-000067
N2	03.16	A040		R98	Correction of LSA Information	F	7.2.0	7.3.0	NP-000078
N2	03.18	A057		R97	Correction of CF notification	F	6.5.0	6.6.0	NP-000064
N2	03.18	A058		R98	Correction of CF notification	A	7.2.0	7.3.0	NP-000064
N2	03.66	A014	2	R98	Results of Public Enquiry 9953	D	7.2.0	7.3.0	NP-000072
N2	03.78	A151	1	R97	Correction of CF notification	F	6.5.0	6.6.0	NP-000033
N2	03.78	A152	1	R98	Correction of CF notification	A	7.2.0	7.3.0	NP-000033
N2	03.78	A153	1	R97	Correction on gsmSSF SDL; return to idle after ACR	F	6.5.0	6.6.0	NP-000033
N2	03.78	A154	1	R98	Correction on gsmSSF SDL; return to idle after ACR	A	7.2.0	7.3.0	NP-000033
N2	03.79	A024		R97	Correction of CF notification	F	6.2.0	6.3.0	NP-000064
N2	03.79	A025		R98	Correction of CF notification	A	7.2.0	7.3.0	NP-000064
N2	09.02	A281		R98	Correction of LSA Information	F	7.3.1	7.4.0	NP-000078
N2	09.02	A282		R98	Correction of SS codes for LCS	F	7.3.1	7.4.0	NP-000071
N2	09.02	A283		R97	Priorisation of MAP application context related to VGCS/VBS	F	6.6.1	6.7.0	NP-000063
N2	09.02	A284		R98	Priorisation of MAP application context related to VGCS/VBS	A	7.3.1	7.4.0	NP-000063
N2	09.02	A285		R98	Privacy notification/verification for call related privacy class	A	7.3.1	7.4.0	NP-000071
N2	09.60	A080		R97	Clarification of Repeated Information Element Ordering	D	6.6.0	6.7.0	NP-000067
N2	09.60	A081		R98	Clarification of Repeated Information Element Ordering	D	7.3.0	7.3.0	NP-000067
N2	09.60	A082	2	R98	Use of 3 Digit MNCs in GTP for R'98	F	7.3.0	7.3.0	NO-000074
N2	23.003	014		R99	Necessity of the function of the calculation an SGSN IP address from the target ID	B	3.3.0	3.4.0	NP-000079
N2	23.003	016		R99	Definition of Service Area Identification	B	3.3.0	3.4.0	NP-000079
N2	23.003	017	2	R99	Modification of section 6.2 to enhance IMEI security	C	3.3.0	3.4.0	NP-000174
N2	23.003	018		R99	Coding of a deleted P-TMSI signature	F	3.3.0	3.4.0	NP-000068
N2	23.007	004		R99	Support of VLR and HLR Data Restoration procedures with LCS	F	3.2.0	3.3.0	NP-000071
N2	23.008	012	2	R99	Introduction of 'Notification to CSE flag'to ODB	C	3.2.0	3.3.0	NP-000065
N2	23.008	013		R99	Correction of LSA Information	A	3.2.0	3.3.0	NP-000078
N2	23.008	014	2	R99	The addition of priority information to subscriber data	B	3.2.0	3.3.0	NP-000077
N2	23.008	015	1	R99	Introduction of Multicall	B	3.2.0	3.3.0	NP-000073
N2	23.008	016	1	R99	Parallel handling of multiple PDP contexts	B	3.2.0	3.3.0	NP-000077
N2	23.008	019	1	R99	Introduction of Service Area Identification	B	3.2.0	3.3.0	NP-000079
N2	23.008	020	1	R99	Addition of gsmSCF address list to CSI	C	3.2.0	3.3.0	NP-000065
N2	23.008	023	1	R99	Combined CR on 23.008	F	3.2.0	3.3.0	NP-000065
N2	23.008	024		R99	Adding D-CSI to table with Negotiated CAMEL Capability Handling variables	B	3.2.0	3.3.0	NP-000065
N2	23.008	025		R99	Addition of PDP Context Identifier	A	3.2.0	3.3.0	NP-000067
N2	23.012	004		R99	Addition of Current Security Context to Send_Identification_PVLR	B	3.1.0	3.2.0	NP-000076
N2	23.012	005		R99	Introduction of Authentication Failure Report	B	3.1.0	3.2.0	NP-000076
N2	23.016	010		R99	Correction of LSA Information	A	3.3.0	3.4.0	NP-000078
N2	23.016	011	1	R99	The addition of priority information	B	3.3.0	3.4.0	NP-000077
N2	23.016	012	2	R99	Introduction of subscriber data for Multicall	B	3.3.0	3.4.0	NP-000073

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N2	23.018	025	7	R99	Addition of the description for Multicall	B	3.3.0	3.4.0	NP-000073
N2	23.018	026	2	R99	Alternative solution for ALR	B	3.3.0	3.4.0	NP-000065
N2	23.018	030		R99	Correction of the SDL diagram for Pre-paging	F	3.3.0	3.4.0	NP-000075
N2	23.018	032	1	R99	Inclusion of D-CSI/N-CSI check in HLR/VLR	F	3.3.0	3.4.0	NP-000065
N2	23.018	033		R99	Initialisation of Backward Call indicator	F	3.3.0	3.4.0	NP-000065
N2	23.018	034		R99	Correction of the result of the procedure CAMEL_ICH_MSC_INIT	F	3.3.0	3.4.0	NP-000065
N2	23.018	037		R99	Clarification of N-CSI in Core Network	F	3.3.0	3.4.0	NP-000065
N2	23.018	038	1	R99	Definition of Continue CAMEL Handling	F	3.3.0	3.4.0	NP-000065
N2	23.018	039	2	R99	Updating references to point to 3G specifications	D	3.3.0	3.4.0	NP-000079
N2	23.018	043	1	R99	Clarification of NPDB error detection and MNP specific call handling	F	3.3.0	3.4.0	NP-000072
N2	23.018	044		R99	Setting the Destination Address for MO calls	F	3.3.0	3.4.0	NP-000065
N2	23.018	047		R99	O-CSI and D-CSI checks for ORLCF calls	F	3.3.0	3.4.0	NP-000065
N2	23.018	048		R99	Correction of CF notification	F	3.3.0	3.4.0	NP-000065
N2	23.018	049		R99	Introduction of Authentication Failure Report	B	3.3.0	3.4.0	NP-000076
N2	23.018	050	3	R99	ISUP release cause value	C	3.3.0	3.4.0	NP-000072
N2	23.066	007	1	R99	Editorial clean up	D	3.1.0	3.2.0	NP-000072
N2	23.066	008	4	R99	Alignment of IN interface with Fixed Networks	B	3.1.0	3.2.0	NP-000072
N2	23.066	009	3	R99	Detection of database synchronisation errors in SRF	B	3.1.0	3.2.0	NP-000072
N2	23.066	012	2	R99	Results of Public Enquiry 9953	D	3.1.0	3.2.0	NP-000072
N2	23.066	015	1	R99	Clarification of NPDB error detection and MNP specific call handling	F	3.1.0	3.2.0	NP-000072
N2	23.078	034	1	R99	Correction to some SDLs in chapter 4	D	3.3.0	3.4.0	NP-000160
N2	23.078	035	3	R99	Correction of Translation Information Flag in the VLR for DTN	F	3.3.0	3.4.0	NP-000160
N2	23.078	037	3	R99	Clarification on CUG handling	C	3.3.0	3.4.0	NP-000160
N2	23.078	038	1	R99	Clarification of SS Invocation Notification	F	3.3.0	3.4.0	NP-000160
N2	23.078	040	5	R99	Correction of SS Invocation Notification for CCBS	C	3.3.0	3.4.0	NP-000160
N2	23.078	041	5	R99	Introduction of call gapping	C	3.3.0	3.4.0	NP-000160
N2	23.078	042	2	R99	Technical and editorial corrections to ATSI, ATM, NCSD (rev of both 008 &014)	F	3.3.0	3.4.0	NP-000160
N2	23.078	043	2	R99	Technical and editorial corrections to Location Services and Any Time Interrogation	F	3.3.0	3.4.0	NP-000160
N2	23.078	044	1	R99	Technical and editorial corrections to circuit cwithed call handling	F	3.3.0	3.4.0	NP-000034
N2	23.078	045		R99	Technical and editorial corrections to USSD	F	3.3.0	3.4.0	NP-000160
N2	23.078	046	1	R99	Technical and editorial corrections to GPRS	F	3.3.0	3.4.0	NP-000160
N2	23.078	047		R99	Technical and editorial corrections to SMS	F	3.3.0	3.4.0	NP-000160
N2	23.078	048	1	R99	Inclusion of O-CSI trigger criteria in Resume Call Handling	F	3.3.0	3.4.0	NP-000160
N2	23.078	051	4	R99	Correction of SDL related to CAMEL Phase3 for D-CSI	F	3.3.0	3.4.0	NP-000160
N2	23.078	052	4	R99	Addition of description of D-CSI in MO Calls	F	3.3.0	3.4.0	NP-000160
N2	23.078	055		R99	Reporting of T_Busy when absent subscriber	F	3.3.0	3.4.0	NP-000160
N2	23.078	056	3	R99	GPRS TCAP dialogues	F	3.3.0	3.4.0	NP-000160
N2	23.078	059		R99	Addition of gsmSRF disconnect handling in CCF SDL	F	3.3.0	3.4.0	NP-000160
N2	23.078	061	3	R99	Addition of SCI handling in Waiting for Instructions For DS state	B	3.3.0	3.4.0	NP-000160
N2	23.078	063	2	R99	Clarification of N-CSI in Core NW	F	3.3.0	3.4.0	NP-000160
N2	23.078	066		R99	Addition of Int_Error in DP_O/T_Answer states	F	3.3.0	3.4.0	NP-000035
N2	23.078	068		R99	Correction of the decision box after receiving Int_DP_O_Answer and Int_DP_T_Answer in the procedure gsmSSF	F	3.3.0	3.4.0	NP-000035
N2	23.078	069	1	R99	Correction of the description in the creation of a new leg in CF	F	3.3.0	3.4.0	NP-000035
N2	23.078	070	1	R99	Correction of the description of BCSM relationships	F	3.3.0	3.4.0	NP-000035
N2	23.078	071		R99	Correction of the direction of Int_Continue after sending Int_T-Abandon (additional CR to 23.078-033)	F	3.3.0	3.4.0	NP-000035
N2	23.078	073		R99	Editorial changes for legs	D	3.3.0	3.4.0	NP-000035
N2	23.078	076	2	R99	Extension of the description of the O_No_Answer	F	3.3.0	3.4.0	NP-000035
N2	23.078	079	1	R99	Inclusion of Release transaction in CAMEL_OCH_MSC_INIT	F	3.3.0	3.4.0	NP-000035
N2	23.078	081	1	R99	Improved SDLs in GPRS interworking	D	3.3.0	3.4.0	NP-000035
N2	23.078	082		R99	Correction of the description of the SGSN	F	3.3.0	3.4.0	NP-000035
N2	23.078	084	1	R99	Correction of references occurring in the SDL figures	F	3.3.0	3.4.0	NP-000035
N2	23.078	085		R99	Inclusion of CAMEL Phase 1 procedures as targets for references in 3G TS 23.018	D	3.3.0	3.4.0	NP-000035
N2	23.078	086		R99	modelling of unsuccessful DPs	F	3.3.0	3.4.0	NP-000035
N2	23.078	090		R99	Definitions of service key	D	3.3.0	3.4.0	NP-000035

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N2	23.078	091	1	R99	Correction of CF notification	A	3.3.0	3.4.0	NP-000033
N2	23.078	093	2	R99	Addition of Long Forwarded-to Numbers	B	3.3.0	3.4.0	NP-000055
N2	23.078	094		R99	Removal of Redirection Information from the ContinueWithArgument operation	F	3.3.0	3.4.0	NP-000035
N2	23.078	096	2	R99	Addition to SDL of user interaction in Waiting_for_Instructions_for_DS	B	3.3.0	3.4.0	NP-000035
N2	23.078	098	1	R99	addition of gsmSCF address list to CSI	C	3.3.0	3.4.0	NP-000035
N2	23.078	100	1	R99	Introduction of 'Service Area Identity (SAI)'	C	3.3.0	3.4.0	NP-000113
N2	23.078	101	1	R99	Correction of SII2 description	F	3.3.0	3.4.0	NP-000035
N2	23.078	102	1	R99	Clarification on CUG handling	F	3.3.0	3.4.0	NP-000035
N2	23.078	103		R99	Replacement of Figure 4.57g: Process gsmSSF (sheet 7) by correct SDL figure.	F	3.3.0	3.4.0	NP-000036
N2	23.078	104		R99	Correction of "Figure 6.2: GPRS Attach/Detach FSM"	F	3.3.0	3.4.0	NP-000036
N2	23.078	105		R99	Correction of first state in "Figure 6.14 l: Process GPRS_SSF"	F	3.3.0	3.4.0	NP-000036
N2	23.078	106	1	R99	Correction of GPRS session description	F	3.3.0	3.4.0	NP-000036
N2	23.078	108	2	R99	Correction of GPRS PDP context FSM	F	3.3.0	3.4.0	NP-000036
N2	23.078	109	2	R99	Enhancement of the SDL for ATM	F	3.3.0	3.4.0	NP-000036
N2	23.078	110	1	R99	Enhancement of the SDL for NCSD	F	3.3.0	3.4.0	NP-000036
N2	23.078	111		R99	Removal of PSI description	D	3.3.0	3.4.0	NP-000036
N2	23.078	112	1	R99	Procedure Handle_SCI_GPRS and Complete_FCI_Record_GPRS	D	3.3.0	3.4.0	NP-000036
N2	23.078	114	1	R99	Correction on gsmSSF SDL; return to idle after ACR	A	3.3.0	3.4.0	NP-000033
N2	23.078	116		R99	O-CSI and D-CSI checks for ORLCF	F	3.3.0	3.4.0	NP-000036
N2	23.078	119	1	R99	Enhancement of the ATSI SDL	C	3.3.0	3.4.0	NP-000036
N2	23.078	120		R99	Transfer of destination address to gsmSCF	D	3.3.0	3.4.0	NP-000036
N2	23.078	121	1	R99	Implementation of retriggering in gsmSSF SDL	F	3.3.0	3.4.0	NP-000036
N2	23.079	009		R99	Correction of CF notification	A	3.3.0	3.3.0	NP-000065
N2	23.079	010	1	R99	Updating references to point to 3G specifications	D	3.3.0	3.3.0	NP-000079
N2	23.079	011		R99	Indication of OR capability of the GMSC to the destination MSC/VLR	F	3.3.0	3.3.0	NP-000079
N2	29.002	048	5	R99	Introduction of Multicall	B	3.3.1	3.4.0	NP-000073
N2	29.002	059	1	R99	Alternative solution for ALR	B	3.3.1	3.4.0	NP-000065
N2	29.002	063	4	R99	MNP Data base mismatch	B	3.3.1	3.4.0	NP-000072
N2	29.002	066	5	R99	Addition of the FTN-AddressString	B	3.3.1	3.4.0	NP-000066
N2	29.002	079	4	R99	Correction of SS Invocation Notification for CCBS	C	3.3.1	3.4.0	NP-000065
N2	29.002	080		R99	Corrections to ATSI, ATM, NCSD	F	3.3.1	3.4.0	NP-000065
N2	29.002	083		R99	Privacy notification/verification for call related privacy class	A	3.3.1	3.4.0	NP-000071
N2	29.002	084	2	R99	Addition of CS Allocation/retention priority	B	3.3.1	3.4.0	NP-000077
N2	29.002	086	1	R99	Various editorial corrections	D	3.3.1	3.4.0	NP-000079
N2	29.002	087		R99	Correction of LSA Information	F	3.3.1	3.4.0	NP-000078
N2	29.002	089		R99	Security interworking between release 99 and pre-99 MSC/VLRs		3.3.1	3.4.0	NP-000076
N2	29.002	090	1	R99	Improving GPRS charging efficiency	B	3.3.1	3.4.0	NP-000067
N2	29.002	094	2	R99	QoS- Subscribed field enhancements	C	3.3.1	3.4.0	NP-000077
N2	29.002	095	1	R99	RANAP support on the E-interface	C	3.3.1	3.4.0	NP-000070
N2	29.002	099		R99	Addition of Current Security Context to Send_Identification_PVLR	B	3.3.1	3.4.0	NP-000076
N2	29.002	100	5	R99	Support of 3G Handover, including Multicall	C	3.3.1	3.4.0	NP-000073
N2	29.002	101	1	R99	Introduction of Service Area Identification	B	3.3.1	3.4.0	NP-000079
N2	29.002	102	2	R99	Clarification on Authentication Info Retrieval	F	3.3.1	3.4.0	NP-000076
N2	29.002	103	1	R99	Addition of UMTS security to MAP B interface	B	3.3.1	3.4.0	NP-000076
N2	29.002	104		R99	Re-Synchronisation Info	F	3.3.1	3.4.0	NP-000076
N2	29.002	105	1	R99	Introduction of additional service parameters for inter-system handover	C	3.3.1	3.4.0	NP-000070
N2	29.002	107		R99	Removal of architectural information from clause 4	D	3.3.1	3.4.0	NP-000079
N2	29.002	110	1	R99	Introduction of Authentication Failure Report	B	3.3.1	3.4.0	NP-000076
N2	29.002	111		R99	Use of MAP private extensions to implement region-specific requirements	B	3.3.1	3.4.0	NP-000079
N2	29.002	112		R99	Priorisation of MAP application context related to VGCS/VBS	A	3.3.1	3.4.0	NP-000063
N2	29.002	113		R99	Correction of SS-Codes for LCS	A	3.3.1	3.4.0	NP-000071
N2	29.010	003	1	R99	UMTS/GSM interworking	B	3.1.0	3.2.0	NP-000070
N2	29.010	004	1	R99	GSM/UMTS Interworking	F	3.1.0	3.2.0	NP-000070
N2	29.010	005		R99	UMTS/UMTS Handover	C	3.1.0	3.2.0	NP-000070
N2	29.060	033	2	R99	Addition of Radio Priority to the SGSN Context Response	B	3.3.0	3.4.0	NP-000077
N2	29.060	035	2	R99	Addition of Packet Flow Id to the SGSN Context Response	B	3.3.0	3.4.0	NP-000077
N2	29.060	036	1	R99	Change the attribution of the PDP Context IE	C	3.3.0	3.4.0	NP-000069
N2	29.060	037		R99	Add cause value	C	3.3.0	3.4.0	NP-000069

WG	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	tdoc
N2	29.060	038		R99	Addition of NSAPI to GGSN-initiated Update PDP Context	F	3.3.0	3.4.0	NP-000069
N2	29.060	040		R99	Improving charging efficiency	B	3.3.0	3.4.0	NP-000079
N2	29.060	041	1	R99	Subscriber and equipment trace for PS domain	B	3.3.0	3.4.0	NP-000079
N2	29.060	042		R99	Necessity of the function of the calculation an SGSN IP address from the target ID	B	3.3.0	3.4.0	NP-000079
N2	29.060	045	1	R99	Removal of Anonymous Access	F	3.3.0	3.4.0	NP-000069
N2	29.060	046	1	R99	Clarification of Authentication Type and Import of Parameters	F	3.3.0	3.4.0	NP-000069
N2	29.060	048		R99	Clarification of Information Elements	F	3.3.0	3.4.0	NP-000069
N2	29.060	050	2	R99	Clarification on Protocol Type in GTP Header	F	3.3.0	3.4.0	NP-000069
N2	29.060	051		R99	Clarification of Repeated Information Element Ordering	D	3.3.0	3.4.0	NP-000067
N2	29.060	052	2	R99	Method for GTP extension headers support	B	3.3.0	3.4.0	NP-000069
N2	29.060	053	2	R99	The addition of the conditional description of the GTP parameters	B	3.3.0	3.4.0	NP-000069
N2	29.060	056		R99	Change of naming when referring to primary and secondary contexts	D	3.3.0	3.4.0	NP-000069
N2	29.060	057		R99	Removal of X.25	F	3.3.0	3.4.0	NP-000067
N2	29.060	058	1	R99	Use of 3 Digit MNCs in GTP for R'99	A	3.3.0	3.4.0	NP-000074
N2	29.060	063	2	R99	QoS Profile IE modification	C	3.3.0	3.4.0	NP-000077
N2	29.060	067	1	R99	Distribution of security data	C	3.3.0	3.4.0	NP-000069
N2	29.060	069	1	R99	New cause codes for for TFT and packet filter errors	C	3.3.0	3.4.0	NP-000069
N2	29.060	070		R99	IP v6 support in GTP	F	3.3.0	3.4.0	NP-000069
N2	29.060	072	4	R99	Clarification on the use of TEID in the GTP header	F	3.3.0	3.4.0	NP-000165
N2	29.060	073		R99	Clarification to the function of the calculation an SGSN IP address from the target ID	D	3.3.0	3.4.0	NP-000079
N2	29.060	075		R99	Changing references from GSM to 3G	D	3.3.0	3.4.0	NP-000069
N2	29.060	076		R99	New table for Information Elements	D	3.3.0	3.4.0	NP-000069
N2	29.060	077		R99	Forward SRSN Context CR	C	3.3.0	3.4.0	NP-000069
N2	29.060	078	1	R99	PDCP sequence numbers in SRNC relocation and inter-system handover	C	3.3.0	3.4.0	NP-000069
N2	29.060	079		R99	Removal of TCP support in the packet domain PLMN backbone network	C	3.3.0	3.4.0	NP-000069
N2	29.060	081		R99	Addition of PDP Context Identifier to PDP Context Information Element	F	3.3.0	3.4.0	NP-000069
N2	29.060	083		R99	Editorial clarification of information elements in the SGSN Context Response	D	3.3.0	3.4.0	NP-000079
N2	29.078	015	5	R99	Introduction of call gapping	C	3.2.0	3.3.0	NP-000161
N2	29.078	018	3	R99	GPRS TCAP dialogues	F	3.2.0	3.3.0	NP-000161
N2	29.078	034	3	R99	CCBS & CLI presentat indicators	F	3.2.0	3.3.0	NP-000161
N2	29.078	038	2	R99	Addition of Connected number treatment indicator	F	3.2.0	3.3.0	NP-000161
N2	29.078	042	1	R99	Editorial changes to clause 2-9	F	3.2.0	3.3.0	NP-000161
N2	29.078	043	1	R99	Editorial changes to clause 10	F	3.2.0	3.3.0	NP-000161
N2	29.078	044	1	R99	Editorial changes to clause 11	F	3.2.0	3.3.0	NP-000161
N2	29.078	045	1	R99	Editorial changes to clause 12	F	3.2.0	3.3.0	NP-000161
N2	29.078	048	2	R99	Transfer of destination address to gsmSCF	C	3.2.0	3.3.0	NP-000161
N2	29.078	049	1	R99	Addition of Long Forwarded-to Numbers	B	3.2.0	3.3.0	NP-000055
N2	29.078	052	1	R99	Clarification on CUG handling and syntactical error correction on ASN.1	F	3.2.0	3.3.0	NP-000161
N2	29.078	053		R99	Correction of GPRS session description	F	3.2.0	3.3.0	NP-000161
N2	29.078	056	1	R99	Increasing the parameter constants	F	3.2.0	3.3.0	NP-000161
N2	29.078	057	1	R99	Clarification of CUG handling	C	3.2.0	3.3.0	NP-000161
N2	29.078	059		R99	Introduction of 'Service Area Identity	C	3.2.0	3.3.0	NP-000113
N2 A	23.078	117		R99	Removal of user interaction in the monitoring state	F	3.3.0	3.4.0	NP-000144
N3	27.001	010		R99	FALLBACK TO SPEECH IN A CS MULTIMEDIA CALL SETUP	B	3.3.0	3.4.0	NP-000046
N3	27.001	011		R99	Bit transparent services RDI and UDI	F	3.3.0	3.4.0	NP-000044
N3	27.001	012		R99	FTM corrections	F	3.3.0	3.4.0	NP-000045
N3	27.001	013		R99	Alignment to RANAP and other clarifications	C	3.3.0	3.4.0	NP-000044
N3	27.001	014		R99	Corrections related to MULTIMEDIA	F	3.3.0	3.4.0	NP-000046
N3	27.002	003		R99	UMTS clean up	F	3.2.0	3.3.0	NP-000044
N3	27.003	004		R99	UMTS clean up	F	3.2.0	3.3.0	NP-000044
N3	27.060	010		R99	Correction of the support for IPv6 for the MS.	F	3.3.0	3.4.0	NP-000050
N3	27.060	011		R99	N1 VOCABULARY ALIGNMENT	F	3.3.0	3.4.0	NP-000048
N3	27.060	012		R99	Removal of X.25 from R'99 Packet Domain	F	3.3.0	3.4.0	NP-000048
N3	27.060	013		R99	Specification reference section clean-up	F	3.3.0	3.4.0	NP-000049
N3	29.007	012		R99	Clarification of reference to Q.931 for LLC IE	F	3.3.0	3.4.0	NP-000044
N3	29.007	013		R99	CR to 29.007 for A -TRAU'	B	3.3.0	3.4.0	NP-000044
N3	29.007	014		R99	FALLBACK TO SPEECH IN A CS MULTIMEDIA CALL SETUP	B	3.3.0	3.4.0	NP-000046

WG	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	tdoc
N3	29.061	009		R99	Specification reference section clean-up	F	3.2.0	3.3.0	NP-000049
N3	29.061	010		R99	Support for the IP-Multicast protocol	F	3.2.0	3.3.0	NP-000047
N3	29.061	011		R99	Corrction for IPv6 support to the Gi reference point, CR to 29.061	F	3.2.0	3.3.0	NP-000050
N3	29.061	012		R99	Removal of X.25 from R'99 Packet Domain	C	3.2.0	3.3.0	NP-000048
N3	29.061	013		R99	N1 VOCABULARY ALIGNMENT	F	3.2.0	3.3.0	NP-000048
NS	03.67	A004		R97	Cause pre-emption removed from HOLD message.	F	6.0.0	6.1.0	NP-000166
NS	03.67	A005		R98	Cause pre-emption removed from HOLD message.	A	7.0.0	7.1.0	NP-000166
NS	04.80	A016	1	R98	Correction to Location Notification Type and LCS-MOLR errors	F	7.1.0	7.2.0	NP-000027
NS	23.067	001		R99	Cause pre-emption removed from HOLD message.	A	3.0.0	3.1.0	NP-000166
NS	23.067	002		R99	Priority update by the use of Assignment procedure	C	3.0.0	3.1.0	NP-000166
NS	23.082	003	3	R99	Introduction of 'Notification to CSE flag' to CF	C	3.1.0	3.2.0	NP-000025
NS	23.082	004	2	R99	Addition of Long Forwarded-to Numbers	B	3.1.0	3.2.0	NP-000024
NS	23.082	005		R99	Inclusion of TIF-CSI	A	3.1.0	3.2.0	NP-000112
NS	23.088	001	3	R99	Introduction of 'Notification to CSE flag' to CB	C	3.1.0	3.2.0	NP-000025
NS	23.094	001		R99	Follow Me stage 2 specification	F	3.0.0	3.1.0	NP-000026
NS	23.097	004		R99	Minor editorial corrections	D	3.1.0	3.1.1	NP-000028
NS	24.080	002	1	R99	Correction to Location Notification Type and LCS-MOLR errors	A	3.1.0	3.2.0	NP-000027
NS	24.080	003		R99	Addition of the description for Multicall	B	3.1.0	3.2.0	NP-000119

*(Taken from CR Database **CR-data-000517.mdb**)*

ANNEX E: List of CRs NOT Approved by TSG_CN#7

Status	WG	Spec	CR	Rev	Phase	Subject	Cat	C-Version	tdoc
rejected	N1	23.009	002	3	R99	CR to 23.009 on Handover scenario for Multicall	B	3.1.0	NP-000095
Withdrawn	N1	23.108	003		R99	Updates for call procedures for UMTS, including codec negotiation	B	3.1.0	NP-000098
rejected	N2	23.003	015	3	R99	Introduction of Encrypted MSI	B	3.3.0	NP-000076
rejected	N2	23.008	022	1	R99	Introduction of Enhanced User Identity Confidentiality	B	3.2.0	NP-000076
rejected	N2	23.012	003	3	R99	Introduction of Enhanced User Identity Confidentiality	B	3.1.0	NP-000076
rejected	N2	23.018	028	1	R99	User interaction and monitoring	C	3.3.0	NP-000065
rejected	N2	23.018	036	3	R99	Introduction of Enhanced User Identity Confidentiality	B	3.3.0	NP-000076
rejected	N2	29.002	092	4	R99	Introduction of Enhanced User Identity Confidentiality	B	3.3.1	NP-000076
postponed	N2	29.060	080	2	R99	GTP Security	C	3.3.0	NP-000076
rejected	N2	29.060	082	1	R99	Introduction of EUIC	B	3.3.0	NP-000076
rejected	N2	29.078	058		R99	User Interaction in Monitoring	F	3.2.0	NP-000161

*(Taken from CR Database **CR-data-000517.mdb)***

ANNEX F: SMG3 Plenary Meeting #7 15th March 2000

F.1   Outcome of TSG_N#7 Meeting 15th March 2000

Although No physical meeting of SMG3 Plenary took place in Madrid, the following global lines can be noted.

- **SMG3 accepts and endorses all of the CRs presented to TSG_CN#7 and has no additional material.**

- **SMG3 accepts and endorses all of the WIs and Reports presented by CN#7 and has no additional material.**

Annex G: Access to 3GPP documents

This document briefly outlines some of the more important locations of information that all TSG_CN members should be aware of.

3GPP email lists:

To receive information about CN3 issues, all delegates and other interested parties <u>MUST</u> register for email list **3GPP_TSG_CN**. This can be done by sending an email to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

```
subscribe  3GPP_TSG_CN  YourFirstName  YourLastName
```

There are many other 3GPP email lists that may also be of interest. Go to http://www.3gpp.org/e-mail.htm for further information.

If at any time you would like to confirm which lists you are currently a member of, just sent a message to LISTSERV@LIST.3GPP.ORG with the following single line of text in the body of the message:

```
QUERY *
```

Email archives:

All 3GPP lists have an associated <u>archive of every email sent</u> via that list. Information on how to access the archive is sent to you when you subscribe to the list. This means that if you have temporary email problems, or have just joined the group, you can check to see if you have missed any messages. The easiest was to search the archive is first to request a list of all messages sent to the particular group you are interested in. For example, to get a list of messages sent via the **3GPP_TSG_CN** list between 1st Jan 1999 and the current date, send the following command to LISTSERV@LIST.3GPP.ORG:

```
search * in 3GPP_TSG_CN since Jan 1999
```

As well as a list of emails sent, you receive instructions about how to retrieve the emails.

Some 3GPP archives are also available via a new user-friendly WWW interface. For CN, go to: http://list.3gpp.org/archives/3gpp_tsg_cn.html

Meeting calendar:

The central location for all information relating to the 3GPP meeting calendar and the corresponding meeting invitations can be found at: http://www.3gpp.org/Meetings.htm

Documents on the server:

All documents submitted to CN Plenary meetings will be made available on the 3GPP document server in a directory (related to the number of the meeting) under: ftp://ftp.3gpp.org/TSG_CN/TSG_CN/
e.g. the documents for CN3 meeting #7 can be found at:
ftp://ftp.3gpp.org/TSG_CN/TSG_CN/TSGN_07/

History

<table>
<tr><td colspan="2" align="center">Document History</td></tr>
<tr><td>Up to 15th March 2000</td><td>DRAFT v.1.0.x provided to a select group of delegates up to the end of the CN plenary meeting.</td></tr>
<tr><td>21st March 2000</td><td>DRAFT v.2.0.0 dispatched to the TSG_CN mail exploder for comments.

ftp://ftp.3gpp.org/TSG_CN/TSG_CN/TSGN_07/Report/

Comments to be addressed to:
Mr. David Boswarthick, 3GPP TSG-CN3 Secretary
MCC - ETSI Secretariat
Tel :+33 (0)4 92 94 42 78
e-mail: david.boswarthick@ETSI.fr

A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.

E-mail comments back to author by 4th April 2000</td></tr>
<tr><td>4th April 2000</td><td>Draft report (with revision marks) v2.1.1 placed on the FTP server</td></tr>
<tr><td>6th June 2000</td><td>Draft report v2.1.3 (not placed on the FTP server - updated CR list only</td></tr>
<tr><td>21st June 2000</td><td>Final v2.1.3 approved at TSG#8 Meeting in Düsseldorf – Made version 3.0.0 and placed to server as the official meeting report</td></tr>
</table>