DRAFT

Third Generation Partnership Project

DRAFT STATUS REPORT v0.3.0

3GPP TSG-CN#14

Kyoto, Japan.
12th - 14th December, 2001

Hosted by Association of Radio Industries and Businesses (ARIB) and the Telecommunication Technology Committee (TTC)

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Table of contents

CN Chairman's Executive Summary

Corrective CRs to R97, R98, R99, and Release 4 continue at a normal level. Progress on Release 5 has been significant, however the IMS related work is unlikely to be ready by March 2002, principally due to the IETF dependencies. The table below gives the status of CN related Release 5 (or later) work items.

Work Item	WID	New Specs	Target	Status	WG	Slippage Risk
Intra-Domain Connection of RAN Nodes to multiple CN Nodes – CN Aspects (IuFlex)	NP-010693	-	Mar 02	Mostly complete	CN1	Low
IMS Call Control	NP-010643	23.218 24.228 24.229	Mar 02	High number of open items (NP-010559) High risk IETF dependencies (NP-010681)	CN1	High
Presence	NP-010645	?	Sept 02	No activity yet	CN1	Low
CAMEL Phase 4	NP-010541	23.278	Mar 02	Non-IMS aspects progressing well Si i/f (IM-SSF<->HSS) not started	CN2	High
Service Change and UDI Fallback	NP-010570	-	Mar 02	Good progress	CN3	Low
End to End QoS	NP-010528	29.207 29.208	Mar 02	Specs not yet presented for information	CN3	High
IMS to CS Interworking	NP-010569	29.163	Mar 02	High risk ITU-T dependencies	CN3	High
IMS to IP Interworking	NP-010569	29.162	Mar 02	Spec not yet presented for information Does not address IPv4/IPv6 interworking	CN3	High
Feasibility Study of SUA	NP-010460	29.903	Dec 01	Completed. SUA not an option in Rel 5	CN4	None
AMR-WB, CN Aspects	NP-010538	-	Mar 02	Need coordination with SA3 LI on Lawful Intercept	CN4	Low
IMS CSCF-HSS (Cx) I/F	NP-010626	29.228 29.229	Mar 02	High risk IETF dependency (NP-010681)	CN4	High
OSA Release 5	NP-010687	-	Mar 02	Focus is on OSA-SIP mapping OSA-IMS mapping done as a delta	CN5	High

In addition, it was identified that a Work Item does not yet exist for the Sh interface (SIP Application Server-HSS) and that work cannot be completed by March 02. Similarly, a request by SA3 to provide a protocol for Ze interface (MAP Key Management) is not possible to complete in the March 02, timeframe.

The SUA Feasibility Study (TR 29.903) was approved, however it was agreed that M3UA will be the only SS7 over IP stack specified in CN within release 5.

Since there has been no progress and no activity on the following CAMEL 4 items, SA1 is requested to delete the following (see NP-010688).
- Charging Notification
- Enhanced Dialled Services

The WGs in general and CN1 in particular are extremely heavily loaded and cannot accommodate extra work:
- CN1 can provide protocol impact assessment but would prefer not to be directly involved in a proposed workshop on UE split (NP-010556).
- CN1 can provide some experts to the proposed workshop on ISIM (NP-010706) only if it is co-located with a CN1 meeting.
- CN1 can probably not provide feedback on the IMS Framework document (NP-010553) in the Release 5 timeframe. An informal discussion was held after the CN plenary to understand what was expected by SA1.

The proposed workshop on CN harmonization was discussed. This workshop is proposed by the OHG to facilitate 3GPP/3GPP2 CN harmonization. It was noted that the OHG invitation did not clearly identify the scope of the workshop (NP-010709). Since there was no representation from the OHG at the CN meeting, the issue of whether to accept the OHG invitation will be forwarded to the SA plenary with the following CN comments:
- The workshop must have a clear focus to be useful
- One possible goal would be to develop a core network harmonization roadmap

The issue of winter cleaning (option reduction) will be raised in SA.

1   Opening, of the meeting

Mr. Kunihiko Taya welcomed the delegates to Kyoto on behalf of the hosts.

The meeting was chaired by Mr. Stephen Hayes, (Chair, Ericsson). Additional support was provided by Mr. Ian Park (Vice-Chair, Vodafone), Mr. Kunihiko Taya (Vice-Chair, NEC), and Mr. David Boswarthick (CN Secretary, MCC).

2   Approval of the agenda

NP-010542   **Draft agenda for CN #14 meeting, Kyoto.** *MCC.* **APPROVED.**
NP-010543   **Allocation of documents to agenda items (start of day 1).** *CN vice-chairman.* **NOTED.**
NP-010544   **Allocation of documents to agenda items (end of day 1).** *CN vice-chairman.* **NOTED.**
NP-010545   **Allocation of documents to agenda items (end of day 2).** *CN vice-chairman.* **NOTED.**
NP-010546   **Allocation of documents to agenda items (end of day 3).** *CN vice-chairman.* **NOTED.**

3   IPR declarations

The Chairman reminded delegates of the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were invited:

* to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups
* to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms

4   Meeting Reports

4.1   Report from CN#13 meeting

NP-010547   **Draft report from CN #13 meeting, Beijing.** *MCC.* **APPROVED.**

4.2   Reports from other groups

NP-010555   **Naming: an operator position.** *GSM Association.*
Content: An attempt by the GSM Assoc. to find a marketing term for the new 3G product. Propose the use of GSM and new term 3GSM.
Discussion: 3GPP OP have discussed branding but no conclusions on naming were reached. The recommendation is that the 3GPP logo should be used. **NOTED.**

4.3   IETF Coordination Report

Stephen Hayes spoke of the IETF page on the new 3GPP web site, that lists our IETF dependencies. It shows at least 16 high-risk items.

NP-010681   **IETF Dependency table5.** *CN Chair.*
Content: Contains the list of 3GPP IETF dependencies and their present status.
Discussion: Hannu commented that Item 12 "sigcomp" should be marked as RED/HIGH.
                Andrew Allen [Dynamicsoft], commented that "manyfolks" is a risk of delay and should be marked RED/HIGH. Andrew will take this document back to his company for comments.
                Many expected delivery dates (Feb 2002) which coincides with the last CN1meeting before CN#15. Proposed to continue with the present path with the existing dependencies. The situation will be revisited at CN#15 meeting, at which time CN may re-evaluate the content of Rel-5 IMS. ***CN will report the high risk of slippage to SA plenary.*** **THE DOC .WAS NOTED.**

4.4   CN Chairman's Report

No input.

4.5   CN4/RAN3 M3UA/SUA workshop

NP-010558   **Draft Minutes ad-hoc RAN3&CN4 on M3UA / SUA for Rel5.** *Ad Hoc Chair.*
Discussion: General conclusions difficult to agree. Contains a decision tree that maps some of the possible choices. The topic of M3UA / SUA will be discussed in CN after the discussions / Vote in RAN. RAN chair is aware of this decision tree. RAN Vote planned for Friday morning break.
                Some comments have been made by RAN, but they have not been made available to the author. **NOTED.**

5 Incoming liaisons

5.1 From TSG-CN working groups

No input.

5.2 From other 3GPP groups

NP-010550 **WID: AMR-WB Speech Service – Core Network Aspects [R3-013037].** *RAN3.* **NOTED.**

NP-010552 **LS IN on "WID AMR-WB Speech Service – Core Network Aspects [S2-013073]".** *SA2.* **NOTED.**

NP-010551 **Introduction of a new release marker in the MS Classmark 3 and MS Radio Access Capability.** *GERAN2.* **NOTED.**

NP-010554 **LS IN on "Introduction of GERAN feature indicator".** *GERAN.*
Content: Contains a CR to 24.008 on for GERAN Improvements.
Discussion: The CR was split off into **[NP-010679]**. Andrew Howell [Motorola] to create the missing Rel-5 and include in the CR pack. **NOTED.**

NP-010553 **LS IN on "Focus of TR 22.941".** *SA1.*
Content SA1 request CN1 to provide input to TR 22.941 indicating provided solutions to the requirements.
Discussion: Due to the amount of technical work in CN1 it is unlikely that there will be much time spent on this in the close future. This cannot be addressed in the Rel-5 timeframe. However companies are invited to provide input. *CN will report this to SA plenary.*
Harald Dettner [Siemens], questioned the working procedure where SA1 asks CN WGs to check service requirements.
Randolph Wohlert [SBC Communications] stated that this is not really a stage 1 specification but a stage 0, or a framework document that requires input from several groups. **NOTED.**

NP-010556 **LS IN on "UE Functionality Split Relating to the IMS".** *T2*
Content: "Call control signalling (e.g. IMS SIP signalling) must not be run transparently through the MT by the TE in this Release".
During the discussion it was found that there were different opinions by different companies as to whether this limitation for Release 5 is acceptable.
On the one side, it is argued that the velocity of service delivery via SIP is able to be increased significantly if a TE SIP client can originate signalling messages and send them transparently through the MT.
On the other side, it is pointed out that the security principles for the 3GPP system have hitherto relied on a UICC supplying certain private information* and a conformance tested MT then transmitting that information to the network. If we allow a TE to originate such private information and do not check this in the conformance tested MT then there is a risk that this private information is modified by a rogue piece of TE software and 3GPP would need to define a way for the network to detect this. **NOTED.**

⇓ **RELATED DOC** ⇓
NP-010697 **DISCUSSION DOC. on IMS clients in UE split.** *Nortel.*
Content: Relates to the above LS [NP-010556] from T2. It proposes that subgroups study the issue and find a solution according to guidelines issued by the plenary. Expertise from SA3 (security), CN1 (SIP signalling) and possibly SA2 will be needed. It may be desirable to organise a joint meeting. The following objectives need to be considered by the working groups when reaching a proposal:
- The security of the UMTS system should be protected.
- The goal of IMS is to utilise the flexibility provided by SIP technology. The solution should maximise this flexibility.
- The implications for the proposed solution on the time-to-market for initial IMS clients should be considered.
- IMS is an application using IP transport. Consistent handling of all IP-based applications is a desirable technical objective. If different handling is required for particular applications then this needs to be very carefully defined to avoid compatibility problems.

3GPP is also urged to consider the following related issues:
- How MTs which have modifiable software (eg in Flash memory or RAM) may be handled?
- Whether testing/approval processes should also cover certain TE software clients?

	It is recognised that completion of UE-split may not be possible for the release 5 timetable. However this decision should be finally taken on the basis of what is available at the finalisation of release 5.
Discussion:	This work will add to the existing workload for completion in Rel-5, and it is unlikely that this will completed on time. TSG SA will need to take the decision on timings for this issue. It was also mentioned that there are regulations that relate to the UE 'harming' the network that need to be considered. In CN, communication is considered to be UE to UE. Security issues on which entities can be trusted is the domain of SA3, SA1 and SA2. CN can only comment in the execution of the requirements. TSG_CN cannot at this time comment on the requirements. ***CN will report this to SA Plenary.*** **THE DOCUMENT WAS NOTED.**

NP-010557	**LS IN on "Protocol Specification of the Ze-interface** *SA3.*
Content:	SA3 inform CN and CN4, that a draft version of TS 33.200 MAP Security Rel-5 Specification will be presented to TSG SA #14 to show the differences between the Rel-4 and intended Rel-5 content. SA3 asks CN4 to select or develop a protocol(s) for the Ze-interface that allows a distribution of information between the KAC and the MAP-NE's.
Discussion:	***CN4 is the correct group to do this work.*** CN4 have not yet seen this LS. Ian Park [CN4 Chair], suggests a joint session between CN4 and SA3 [possible in Bristol Feb 2002]. Also SA3 may do a short presentation at the next CN4 meeting [Jan. 2002]. The information that is to be transported via the Ze-interface is considered to be very sensitive. This will require a considerable amount of work in order to complete by the Rel-5 timeframe. CN consider it unreasonable to be given a new interface that needs to be specified by March 2002. CN do not consider this to be possible to be realistic for completion by March 2002. A LS will be sent to SA3 **[NP-010680]**. **NOTED.**

NP-010680	**LS OUT to SA3 on "Ze-interface".** *Ian Park.*
Content:	Response LS to SA3.
Action 1:	SA3 are asked to consider sending an expert to the CN WG4 meeting in January/February 2002 to present the requirements for the protocol on the Ze interface.
Action 2:	SA3 are asked to consider extending their meeting in February/March 2002 to allow further joint discussion with CN4 experts on the protocol on the Ze interface.
Action 3:	SA3 are asked to indicate whether it would be acceptable to deliver of the specifications of the protocol on the Ze interface after March 2002.
Comments:	Action 3, is to SA (hence move SA to TO and not CC).
Discussion:	**REVISED to NP-010685**
⇓ **REVISED** ⇓	
NP-010685	**Rev. LS OUT to SA3 on "Ze-interface".** *Ian Park.* **APPROVED.**

NP-010698	**LS IN on " LI that Lawful Intercept (LI)"** *SA3 Li*
Comments:	A LS was sent from CN4 to SA3 Li on this issue. This is sent to the CN WGs for consideration. **NOTED & FORWARDED TO WGs for their attention.**

NP-010706	**LS IN on "IMS identifiers and ISIM and USIM "** *SA2*
Content:	SA2 propose that a joint workshop (SA1, SA2, SA3, CN1, T2 and T3) to discuss the above topic spanning over two days in the December-January time frame. (possible in Phoenix, USA, in January 2002).
Comments:	Hannu (CN1 Chair) said that it was a good idea but CN1 are very limited in meeting time, and he will have difficulties in finding 2 day spare. Harald Dettner [Siemens] supported such a workshop and suggested 'making' the time. Andrew Allen [Dynamicsoft], suggested combining this joint session with an existing CN1 meeting, but allocating only a few hours for the discussion. It was though that CN1 has initially a minor role to play in these discussions, that are more SA oriented. It was suggested that CN1 have a joint session in their Sophia or Phoenix meetings early 2002. ***CN will report this to SA Plenary.*** **NOTED.**

NP-010710	**LS IN on " AMR-WB Speech Service – Core Network Aspects"** *SA3 Li.*
Content:	SA3 LI invites representation from CN to discuss the WB-AMR issues at the next LI meeting. SA3 LI requests guidance as to the latest WB-AMR specification. A review of this specification to be carried out for the next SA3 LI meeting. Date of next meeting. End of January 2002. Amsterdam, Netherlands.
Comments:	The meeting clashes with the CN WG meeting in Sophia at the same time. Ian Park [CN4 chair] suggested that the required expertise is in SA4 and not CN. SA4 is the correct group for the CODEC

information. This was agreed by the meeting. Also it is not clear from the LS what the open items involve.

It was agreed to inform SA (and hence SA4) of this LS, and the meeting clash for the January meeting. *CN will report this to SA Plenary.* **NOTED.**

5.3   From other groups

No Input.

6   Reports from TSG-CN working groups (& CN Ad Hocs)

6.1   Reporting from TSG-CN WG1

6.1.1 Status report from CN1

NP-010634   **Status Report for TSG CN WG1.** *CN1 chairman.* **NOTED.**
NP-010635   **CN1#19bis Meeting Report.** *CN1 chairman.* **NOTED.**
NP-010636   **CN1#20 Meeting Report.** *MCC.* **NOTED.**
NP-010637   **CN1#20bis Meeting Report.** *CN1 chairman.* **NOTED.**
NP-010638   **CN1#21 Meeting Report.** *MCC.* **NOTED.**
NP-010639   **All LSs sent from CN1 since TSG CN#13 Meeting.** *MCC.* **NOTED.**

6.1.2 Questions for advice and decisions from CN1

No Input.

6.2   Reporting from TSG-CN WG2

6.2.1 Status report from CN2

NP-010575   **Status Report for TSG CN WG2.** *CN2 chairman*
Discussion: CN agreed with the work split where CN4 makes a decision about protocol that conveys CAMEL triggers to IM-SSF (Si interface). The CN2 shall specify the Stage 2 for this protocol. *CN will report to SA Plenary that the Si interface will not be completed by March 2002.*
There was no interest in progressing work on *charging notification* and it will be removed from CAMEL4. *CN will report this to SA Plenary.*
There was no interest in progressing work on *enhancements of dialled services* and it will be removed from CAMEL4. *CN will report this to SA Plenary.*
A LS was sent to SA1 in **[NP-010684]** indicating the deletion of work.
There was no objection of CN2 having their April meeting in Europe (possibly with CN4).
CN did not comment on the splitting of CAMEL4 into subsets, this is a SA1 decision. **THE REPORT WAS NOTED.**

NP-010684   **LS OUT to SA1 on Deletion of Requirements.** *CN.*
Content: The contributing company (C-DOT) for the CAMEL phase 4 functionalities Charging Notification and Enhancements of dialled services has not been able to provide delegates in order to make progress. There has not been any progress on these functionalities lately. None of the CN#14 companies indicated interest in contributing on these functionalities.
Since the January meeting CN2#22 is the last meeting before March 2002 CN plenary, it is very unlikely that these features can be completed in Rel-5 time frame. *CN2#21 recommended removal of these functionalities from the Rel-5 specifications.*
Comments: Remove the reference to the contributing company. **THE LS WAS REVISED to NP-010686.**
⇓ **REVISED** ⇓
NP-010686   **LS OUT to SA1 on Deletion of Requirements.** Wording change **REVISED to NP-010686.**
⇓ **REVISED** ⇓
NP-010688   **LS OUT to SA1 on Deletion of Requirements.** *CN.* **APPROVED.**

NP-010576   **CN2#20 Meeting Report (Brighton).** *MCC.* **NOTED.**
NP-010577   **CN2#21 Meeting Report (Mexico).** *MCC.* **NOTED.**
NP-010578   **CAMEL4 Ad Hoc Meeting Report.** *MCC.* **NOTED.**
NP-010579   **LSs sent from CN2 since TSG CN#13 Meeting.** *CN2.* **NOTED.**

6.2.2 Questions for advice and decisions from CN2

No Input.

6.3   Reporting from TSG-CN WG3

6.3.1 Status report from CN3
NP-010560   **Status report for TSG CN WG3.** *CN3 Chairman.* **NOTED.**
NP-010561   **CN3 #19 meeting report (Brighton).** *MCC.* **NOTED.**
NP-010562   **CN3 #20 meeting report (Mexico).** *MCC* **NOTED.**
NP-010563   **All LSs sent from CN3 since TSG CN#13 Meeting.** *MCC.* **NOTED.**

6.3.2 Questions for advice and decisions from CN3
No Input.

6.4   Reporting from TSG-CN WG4

6.4.1 Status report from CN4
NP-010605   **Status report from CN4.** *CN4 chairman.*
Discussion: The Si interface will be included in the scope of CAMEL for IMS.
The Sh interface requires a new WID. CN4 will create the WID.
CN will report to SA Plenary that CN are just creating the WID for Sh interface, and no work has yet been done.
THE REPORT WAS NOTED.
NP-010606   **CN4 meeting reports since CN#13.** *MCC.* **NOTED**
NP-010607   **CN4 Output LSs after CN#13.** *CN4.* **NOTED**

6.4.2 Questions for advice and decisions from CN4
NP-010608   **SUA: Question for advice and decision.** *CN4 chairman.* **NOTED**

NP-010699   **M3UA - SUA resolution.** *Ericsson, Nokia, Lucent Technologies, Hutchison 3G, Motorola, Nortel Networks, Siemens, Sonera, Telia, Alcatel.*
Discussion: <u>CN agreed that M3UA is the only option in Rel-5.</u>
Beyond Rel-5 CN does not *'have to'* adopt the same solution as RAN, as the same criteria do not apply to CN. However we may consider the eventual RAN approach for Rel-6 when CN considers it's own solution. Presently, the simplest approach for the future is to use only M3UA, but this does not exclude the use of other protocols (SUA or other), in the future. Companies are invited to investigate, and provide input to future meetings. **NOTED.**

6.5   Reporting from TSG-CN WG5

6.5.1 Status report from CN5
NP-010590   **Chairman's report from CN5 (slide presentation).** *CN5 chairman.*
Comments: Change of mapping of the OSA API to ISC will require . The CN5 chair was not sure if pure SIP is considered to be RFC 2543 or 2543bis. Andrew Allen [Dynamicsoft] explained the differences could be significant. **THE REPORT WAS NOTED.**
NP-010591   **LSs outgoing from CN5 between CN#14 and CN#15.** *CN5.* **NOTED.**
NP-010592   **Report of CN5#14, Brighton, UK, 16 - 19 Oct 2001.** *CN5.* **NOTED.**
NP-010593   **Draft Report of CN5#15, Cancun, MEXICO, 26 - 20 Nov 2001.** *CN5 chairman.* **NOTED.**

6.5.2 Questions for advice and decisions from CN5
No Input.

7   Release 99 & earlier: Approval of contributions (by Work Item)

7.1   CAMEL Phase 2
NP-010580   **CR to R98, WI CAMEL2, Pack 1.** *CN2.* **APPROVED**
NP-010581   **CRs to R97 and R98, WI CAMEL2, Pack 2.** *CN2.* **APPROVED.**

7.2 CAMEL Phase 3

NP-010582   **CRs to R99 and Rel-4 WI CAMEL3, Pack 3.** *CN2.* **APPROVED.**
NP-010583   **CRs to R99 and Rel-4 WI CAMEL3, Pack 4.** *CN2.* **APPROVED.**
NP-010584   **CRs to R99 and Rel-4 WI CAMEL3, Pack 5.** *CN2.* **APPROVED.**
NP-010587   **CRs to R99 and Rel-4 WI CAMEL3, Pack 6.** *CN2.* **APPROVED.**
NP-010588   **CRs to R99 and Rel-4 WI CAMEL3, Pack 7.** *CN2.* **APPROVED.**
NP-010589   **CRs to R99 and Rel-4 WI CAMEL3, Pack 8.** *CN2.* **APPROVED.**
NP-010609   **CR pack: CAMEL 3 (R99).** *CN4.* **APPROVED.**
NP-010673   **CR pack: CAMEL 3 (R99).** *CN4.* **APPROVED.**
NP-010662   **CRs to R99 and Rel-4 WI CAMEL3, Pack 8.** *CN2.* **APPROVED.**
NP-010663   **CRs to R99 and Rel-4 WI CAMEL3, Pack 8.** *CN2.* **APPROVED.**
NP-010664   **CRs to R99 and Rel-4 WI CAMEL3, Pack 8.** *CN2.* **APPROVED.**

7.3 Security

No Input.

7.4 GSM maintenance

No Input.

7.5 EDGE

No Input.

7.6 Multimedia

No Input.

7.7 Out of Band Transcoder Control

No Input.

7.8 ASCI

No Input.

7.9 Call Deflection

No Input.

7.10 CCBS

No Input.

7.11 CF Enhancements

No Input.

7.12 GPRS

NP-010572   **CR Pack 1 on GPRS.** *CN3.* **APPROVED.**
NP-010672   **CR pack 2 on GPRS.** *CN3.* **APPROVED.**
NP-010646   **CRs to R97 (with mirror CRs) on Work Item GPRS towards 09.18.** *CN1.* **APPROVED.**
NP-010647   **CRs to R97 and R99 (with mirror CRs) on Work Item GPRS towards 04.08 and 24.008**. *CN1.* **APPROVED.**
NP-010648   **CRs to R97 and R99 (with mirror CRs) on Work Item GPRS towards 04.64 and 24.008**. *CN1.* **APPROVED.**

7.13 GTP enhancement

NP-010610   **CR pack: GTP enhancement (R99).** *CN4.* **APPROVED.**
NP-010696   **CR on GTP enhancement (Mirror to NP-010610).** *Lucent.* **APPROVED.**

7.14 Handover

NP-010611   **CR pack: Handover (R99).** *CN4.* **APPROVED.**

7.15 GSM-UMTS interworking (inc PLMN selection)

NP-010612   CR pack: GSM-UMTS interworking (R99) CN4. **GTP enhancement**

NP-010649   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 and 24.007.** *CN1.* Error in SDLs of one CR. **SPLIT INTO NP-010682+NP-010683**

⇓ SPLIT CR PACK ⇓

NP-010682   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 and 24.007.** *CN1.* **APPROVED.**

NP-010683   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009.** *CN1.*Lucent had concerns with the reason for change in 23009CR62r1 **REVISED to NP-010691.**

⇓ REVISED ⇓

NP-010691   **Rev. CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009. APPROVED.**

NP-010650   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008.** *CN1.* **SPLIT INTO NP-010676+NP-010677.**

⇓ SPLIT CR PACK ⇓

NP-010677   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 Part 1.** *CN1.*Some problem were found with the 'states' in one CR. More time was requested to check the CRs. **REVISED to NP-010689.**

⇓ REVISED ⇓

NP-010689   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 Part 2.** *CN1.*After some offline discussions between interested parties, it was decided to revise the CRs. **REVISED to NP-010700.**

⇓ REVISED ⇓

NP-010700   **CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 Part 2.** *CN1.*

Comments: This handles the situation for the UE, but work is still required for network optimisation. SA2 & CN4 will need to examine this further. This was supported by several companies in the meeting. **APPROVED.**

7.16 Location services

NP-010613   **CR pack: Location service enhancements (R98).** *CN4.* **APPROVED.**

NP-010614   **CR pack: Location service enhancements (R99).** *CN4.* **APPROVED.**

7.17 MNP

No Input.

7.18 Multicall

NP-010615   **CR pack: Multicall (R99).** *CN4.* **APPROVED.**

NP-010651   **CR to R99 (with mirror CR) on Work Item Multicall towards 23.009.** *CN1.*Linked stage 2 CR, that needs to be approved. Hence this one is conditionally approved. **APPROVED.**

7.19 QoS enhancements

NP-010652   **CR to R99 (with mirror CRs) on Work Item QoS enhancements towards 24.008.** *CN1. .* **APPROVED.**

7.20 CS bearers in UMTS

NP-010571   **CRs on Circuit Switched Bearers in UMTS.** *CN3.* **APPROVED.**

7.21 R99 Service cleanup

No Input.

7.22 TEI

NP-010616   **CR pack: TEI (R99)** *CN4.* **APPROVED.**

NP-010653   **CR to R99 (with mirror CR) on Work Item TEI towards 29.018.** *CN1.* **APPROVED.**

NP-010674   **CR pack: TEI (R99).** *CN4.* **WITHDRAWN.**

7.23 Any Other R99 WI

NP-010617   **CR pack: Super Charger (against TS 23.116).** CN4. **APPROVED.**

NP-010618   **CR pack: Super Charger (against TR 23.912).** CN4. **WITHDRAWN**

8   Release 4: Approval of contributions (by Work Item)
NOTE - REL-4 IS FROZEN. ONLY CAT F and CAT A CRS ALLOWED

8.1   Evolutions of the transport in the CN [CNTRSP]
No Input.

8.2   Emergency call enhancements [EMC1-CS]
No Input.

8.3   Enable bearer independent CS architecture [CSSPLIT]
NP-010573   **CRs on Bearer independent circuit switched Core Network.** CN3. **APPROVED.**
NP-010619   **CR pack: Bearer independent CS architecture.** CN4. **APPROVED.**
NP-010675   **CR pack: Bearer independent CS architecture.** CN4. **WITHDRAWN.**

8.4   Facsimile [FAX]
No Input.

8.5   OSA enhancements [OSA1-ECOM]
NP-010594   **Rel-4 CRs 29.198-01.** CN5. **APPROVED.**
NP-010595   **Rel-4 CRs 29.198-02.** CN5. **APPROVED.**
NP-010596   **Rel-4 CRs 29.198-03.** CN5. **APPROVED.**
NP-010597   **Rel-4 CRs 29.198-04.** CN5. **APPROVED.**
NP-010695   **Rel-4 CRs 29.198-04.** CN5. **APPROVED.**
NP-010598   **Rel-4 CRs 29.198-05.** CN5. **APPROVED.**
NP-010599   **Rel-4 CRs 29.198-06.** CN5. **APPROVED.**
NP-010600   **Rel-4 CRs 29.198-07.** CN5. **APPROVED.**
NP-010601   **Rel-4 CRs 29.198-08.** CN5. **APPROVED.**
NP-010602   **Rel-4 CRs 29.198-11.** CN5. **APPROVED.**
NP-010603   **Rel-4 CRs 29.198-12.** CN5. **APPROVED.**

8.6   Transcoder Free Operation [TrFO]
NP-010620   **CR pack: Transcoder Free Operation.** CN4. **APPROVED.**

8.7   Tandem Free aspects for 3G and between 2G and 3G systems [TFO]
NP-010554   **CR to Rel-4 (with mirror CR) on Work Item TFO-AMR towards 24.008.** CN1. **APPROVED.**

8.8   Location Service enhancements [LCS1-PS]
NP-010621   **CR pack: Location Service enhancements.** CN4. **APPROVED.**
NP-010655   **CR to Rel-4 (with mirror CR) on Work Item LCS1-PS towards 24.008.** CN1. **APPROVED.**

8.9   Ensure reliable QoS for PS domain (Master) [QoSPS]
No Input.

8.10   Security enhancements [SEC1]
NP-010622   **CR pack: Security enhancements.** CN4. Linked to CR in TS 33.200 to be approved in SA#14. **CONDIT. APPROVED.**

8.11   ASCI [ASCI]
No Input.

8.12   TEI_4
NP-010623   **CR pack: TEI_4.** CN4. **APPROVED.**
NP-010656   **CR to Rel-4 on Work Item TEI4 towards 24.008.** CN1. **APPROVED.**
NP-010665   **Mirror CR to 24.008 on references.** rapporteur. **APPROVED.**
NP-010676   **CR pack: TEI_4.** CN4. **WITHDRAWN.**

NP-010679   **CR pack TEI**. Feature mark CR plus mirror. *GERAN.* There were some concerns with the content of the CR relating to the 'feature package'. **REVISED to NP-010690.**

⇓ **REVISED** ⇓

NP-010690   **CR pack TEI**. Feature mark CR plus mirror. *GERAN.* **APPROVED.**

8.13 Any otherRel-4 WI

NP-010574   **CRs on Circuit Switched Bearers in UMTS.** *CN3.* **APPROVED.**

NP-010624   **CR pack: GTP enhancement.** *CN4 .* **WITHDRAWN.**

NP-010625   **CR pack: Handover.** *CN4.* **WITHDRAWN.**

9 Release 5

9.1 Provisioning of IP-based multimedia services [IMS]

NP-010559 **CN1 IMS open item list** *CN1 Chairman.*
Content: Contains the open item list that identifies the tasks within that work item that still need to be completed before the CN1 IMS draft TSs (23.218, 24.228, 24.229) can be approved for Rel-5.
This study has been done to identify the still missing principal decisions and other major open issues in the IMS specifications under CN1 control. The intention is not to take this open items list to the granularity of a individual CRs.
Because of these reasons the list is not exhaustive so it should not be considered as comprehensive list of all CRs that are needed to complete the CN1 IMS task. It can be foreseen that not only the CRs to close the listed open items but also other CRs outside the list will be needed.
But the intention is to list all such open items which are likely to impact the scheduling and work amount estimates on the work item. This open item list may be used for prioritisation of the Rel-5 work in TSG CN if the plenary meeting chooses to do so.
This document takes no position in how an open item is closed unless it is explicitly stated. So it may happen that an open item in a CN1 TS is covered by removing the whole clause from the TS. It is the intention of the originator to maintain this document until it becomes redundant at the freezing of Rel-5 IMS related CN1 TSs.
Comments: There will be 3 CN1 meetings before CN#14 meeting in order to progress the amount of work. All open items are considered to have the same priority, because if one is not completed this will result in the freezing of incomplete specifications in March 2002 (or other). This document will be maintained and re-presented to CN#15 meeting. **NOTED.**
NP-010564 **TS 29.162 Interworking between the IM CN subsystem and IP networks.** *CN3.* **WITHDRAWN.**
NP-010565 **TS 29.163 Interworking between the IM CN subsystem and CS networks.** *CN3* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**
NP-010568 **WID: Interworking between IM CN subsystem and IP networks.** *CN3.*
The interworking of IETF *without* extensions to IETF *with* extensions is outside the scope of this WID. The interworking of IPv4 to IPv6 is also outside of the scope of this WID. A LS has been sent to SA2 (from the CN1/CN3 joint) on the issue of IPv4 to IPv6 interworking. **APPROVED.**
NP-010569 **WID: Interworking between IM Subsystems and CS networks.** *CN3.* **APPROVED.**
NP-010626 **WID: IP Multimedia subsystem, CSCS-HSS (Cx) interface.** *CN4.*
Discussion: It was noted that the dependant IETF RFCs will *most probably* not be ready for March 2002. This is another HIGH risk area. **APPROVED.**
NP-010627 **TS 29.228 IP Multimedia Subsystem Cx interface; signalling flows and message contents.** *CN4.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**
NP-010628 **TS 29.229 Cx Interface based on the Diameter protocol; Protocol details.** *CN4.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**
NP-010640 **3GPP TS 23.218 v1.0.0 for information.** *CN1.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**
NP-010641 **3GPP TS 24.228 v1.8.0 for information.** *CN1.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**
NP-010642 **3GPP TS 24.229 v1.0.0 for information.** *CN1.* Expected delivery of v2.0.0 for approval at CN#15. John Meredith asks whether this spec is appropriate for use with GERAN access. Only if the answer is "yes" is it right to put the "GSM" logo on the front. Hannu says it is appropriate to use this protocol with GERAN. **NOTED.**

NP-010643 **WID: SIP call control protocol for the IM CN subsystem.** *CN1.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**

9.2 Emergency call enhancements [EMC1-PS]

No Input.

9.3 VHE enhancements [VHE1]

No Input.

9.4 OSA enhancements [OSA1]

NP-010671 **Revised Work Item Description OSA Stage 3 Rel5; approved at CN#13 as NP-010535.** *CN5.*

Discussion: Timescales need to be adjusted. Also some specifications have versions, these should be removed. **REVISED to NP-010687**

⇓ **REVISED** ⇓
NP-010687   **Revised Work Item Description OSA Stage 3 Rel5; approved at CN#13 as NP-010535.** *CN5.*29.xyz will be presented in March 2002. **REVISED to NP-010692**

⇓ **REVISED** ⇓
NP-010692   **Revised Work Item Description OSA Stage 3 Rel5; approved at CN#13 as NP-010535.** *CN5.*29.xyz will be presented in March 2002. **APPROVED.**

9.5   CAMEL Phase 4 [CAMEL4]

NP-010585   **Draft TS 23.078 v 5d.C.0.** *CN2.*
NP-010586   **Draft TS 23.278 v 1.0.0.** *CN2.* Expected delivery of v2.0.0 for approval at CN#15. **NOTED.**

9.6   Wideband Telephony Service - AMR [AMRWB]

NP-010657   **CR to Rel-5 on Work Item AMRWB towards 24.008** *CN1.* **APPROVED.**

9.7   Location Service Enhancements [LCS1-EBP]

NP-010629   **CR pack: Location Services enhancements.** *CN4.* **WITHDRAWN.**
NP-010658   **CRs to Rel-5 on Work Item LCS enhancements towards 24.008 and 44.064.** *CN1.*
   Concerns were raised that the stage 2 requirement CRs had not been produced to result in this stage 3 work. It was requested that the inclusion of the stage 2 requirements, possibly in 23.060 and 43.059 needs to be checked by MCC. This was not confirmed during the meeting. *Although the CRs are approved MCC shall still check and advise the appropriate Working group.* APPROVED.

9.8   End to End QoS [QoSPS]

NP-010566   **TS 29.207 Policy control over Go interface.** *CN3.* **WITHDRAWN**
NP-010567   **TS 29.208 End to End QoS signalling flows.** *CN3.* **WITHDRAWN**

9.9   Security enhancements [SEC1]

No Input.

9.10   Intra Domain Connection of RAN Nodes to multiple CN nodes [MULCN]

NP-010630   **CR pack: Intra- Domain Connection of RAN Nodes to multiple CN nodes.** *CN4.* **APPROVED.**
NP-010644   **WID: Intra- Domain Connection of RAN Nodes to multiple CN nodes.** *CN1.*
Comments: Ref to changes in 29.002 can be deleted. Have SA2 considered the changes to TMSI? CN4 will need to study whether Iu-flex affects 23.007. No impact on 29.002.**REVISED to NP-010693**

⇓ **REVISED** ⇓
NP-010693   **WID: Intra- Domain Connection of RAN Nodes to multiple CN nodes.** *CN1.* **APPROVED.**

NP-010659   **CRs to Rel-5 on Work Item MULCN towards 23.009, 24.008 and 29.018.** *CN1.*CAT of one CR F not C - MCC will change. **APPROVED.**

9.11   Support of Presence Capability [PRESNC]

NP-010645   **WID: Presence.** *CN1.*Presence is agreed by SA2 may be SIP based. Presence and Instant messaging are considered to be separate. CN1 chair will inform CN1 that the scope of the specification be limited to Presence and does NOT include Instant Messaging Service. **APPROVED.**

9.12   Display of Service Provider Name on UE [SPNAME]

No Input.

9.13   Any otherRel-5 WI

NP-010570   **WID: Service Change and UDI Fallback .** *CN3.* **APPROVED.**
NP-010604   **CRs on TEI_5.** *CN3.* **APPROVED.**
NP-010631   **CR pack: TEI_5 .***CN4.* **APPROVED.**
NP-010632   **CR pack: Bearer independent CS architecture.** *CN4.* **WITHDRAWN**
NP-010633   **TR 29.903 SUA Feasibility Study.** *CN4.* **APPROVED.**
NP-010660   **CRs to Rel-5 on Work Item TEI5 towards 24.008.** *CN1.* **APPROVED.**

NP-010661   **CR to Rel-5 on Work Item Alignment of 3G functional split and Iu towards 23.009.** *CN1.* **APPROVED.**

10 TSG CN work organization

10.1 Principles for work organization within CN
No Input.

10.2 Terms of Reference
No Input.

10.3 Support Arrangements
No Input.

10.4 Working methods / Work Style
No Input.

10.5 Future Meeting Schedule
No Input.

11 Specifications in TSG-CN domain

NP-010666   **CR to 21.101: "Correction to list of specs".** *JMM, MCC.* **WITHDRAWN.**
NP-010667   **CR to 21.102: "Correction to list of specs".** *JMM, MCC.23.054 needs to be removed (Again).* **NOTED.**
NP-010668   **CR to 01.01: "GSM Release 1999 specifications".** *JMM, MCC.* **NOTED.**
NP-010669   **CR to 41.102: "GSM Release 4 Specifications".** *JMM, MCC.* **NOTED.**
NP-010670   **Specs status list prior to TSGs #14.** *JMM, MCC.* **NOTED.**

12 Review of 3GPP Work Plan

NP-010548   **Latest version of 3GPP work plan.** *MCC.* Comment were take on line and will be incorporated by MCC.
- Proposal to track IETF dependencies in only one place; Stephen suggests that we make this place the IETF tracking document on the 3GPP web site. Andrew Allen [Dynamicsoft], thinks it would be safer to use the work plan, because this is reviewed in the WGs. The alternative would be to have a standing action on WGs to review the IETF dependency document as well as the work plan. Stephen responds that the IETF tend to look at the dependency document rather than at the 3GPP project plan. After discussion, <u>decided to keep the dependencies in the work plan.</u>
- 2047: remove CN4 from the joint responsibility. Should show dependency on ITU-T. Should be Release 5.
- 2048: should be Release 5.
- 1286: should be shown as 75% complete
- 14002: Andrew Allen thinks that the Mg interface is CN1 responsibility, not CN4, because the protocol on it is SIP-based. Agreed. The interface is BGCF <-> MGCF.
- 12001: Should be updated to reflect CN decision to make the Si work split between CN2 (stage 2) & CN4 (stage 3). Need to change the title to reflect this.
- 11002 – 11013 (IETF dependencies) to be removed, but the AAA DIAMETER (11011) line stays, with responsibility in CN4. Nigel wants to put the DIAMETER line (11011) to just under 1286.
- 1653 (emergency call enhancements for IP & PS based calls): check whether this should move to Release 6.
- We will wait for SA1 decision on whether to delete the dialled services enhancement & charging notification to the CSE (2459 & 2011).
- We need to introduce a new BB for the automatic key distribution, with a WT to cover the protocol for the key transport (the latter in CN4)
- 2249: 66% complete

- 2503: stage 3 is owned by CN1. Andrew Allen wants to add IETF dependencies. Nigel points out that we've taken a decision of principle to add IETF dependencies wherever they're needed
- 2510 (Display of SP name on UE: stage 3) seems to be languishing without any one responsible for it. We need to find out what the work really is. Stephen will raise the question in SA. Nigel points out that the stage 1 is 80% complete. Nick Sampson will check with the SA1 chairman what the stage 1 says!
- 2527 (emergency calls without SIM): Hannu proposes to move to Rel-6; agreed
- Retain duplication of lines for IMS interfaces under UID 1001.
- 14006: Split Sh off and add another line for Si (HSS-IMSSF) interface
- DSR under 31006 will probably go to CN1; subject to clarification in SA.
- 1323 is now 100% complete
- Per Johan J says 2546 is shown as release 4, 0% complete!
- Lines 2551 & 2552 should be removed.

NP-010549   **3GPP work plan slides presentation.** *MCC.* **REVISED to NP-010694**
⇓ **REVISED** ⇓
NP-010694   **3GPP work plan slides presentation.** MCC. **!!! NOTES TO BE PROVIDED !!!**. **NOTED**

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13 Postponed issues from earlier in the meeting
No Input.

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14 Any other business

NP-010708   **PCG Response to OHG on Core Network Harmonization.** *CN Chair.*
Content: The initial communication from the PCG to OHG on 'common core network'. Also asked the question of what is meant by 'All IP Harmonization'. **NOTED.**

NP-010709   **IP Core Network Harmonization.** *OHG*
Content: Document states that a common Core network is good, and proposes a joint meeting between 3GPP and 3GPP2 Core Network groups. Meeting proposed for Toronto, 2 days in March/April 2002.
Discussion: Participant from both 3GPPs in the previous joint meetings (RAN), represented their companies. The expected output would be a report that guides 3GPP and 3GPP2 on how to proceed with the harmonization.
CN considered 3 possible proposals
- Do not attend the meeting until OHG provide clear proposal, with the scope of the workshop.
- Workshop focuses on IP Multimedia.
- Workshop develops the roadmap for Harmonisation, (possible based on NP-010707].
NTT DoCoMo suggested focussing on the long term view and not look at the immediate short term view. This was supported by the meeting. CN agreed in participating in such a workshop on the condition that the scope of the meeting is clearly defined well in advance of the meeting. *CN will report this to SA plenary.*
Stephen Hayes stated that unless the participants of 3GPP and 3GPP2 see the output of this workshop it will not be useful.
It was mentioned that we still have CN#15 before the proposed date of the workshop, and this could be an opportunity to finalise the scope.
This topic will also be discussed in SA#14. **NOTED.**

NP-010707   **Proposed Scope of All IP Workshop between 3GPP and 3GPP2.** *NTT DoCoMo.*
Content: Provides a counter proposal to that expected from the OHG. **NOTED.**

NP-010711   **Smooth Introduction of Release 99.** *Alcatel, Ericsson, Lucent, Motorola, Nokia, Nortel* Provides *Network, T-Mobil, Qualcomm.*
Comments: This presentation summarises the detailed content of 0712 & 0713. Proposes a modus operandi to deal (*especially*) with problems in terminals which are discovered after terminals are introduced into commercial service. Stresses the importance of designing mobiles to meet the core specifications rather than to pass the tests in the conformance specifications. Conformance test will have (broadly) three phases: limited cover for service with "friendly" users; interim cover for first commercial launch; full (as nearly as possible) cover by third party testing.
Randolph Wohlert raises concern over the risk for operators if they introduce service with mobiles which have undergone only a partial conformance testing. Niels points to the fact that until **networks** also provide support for all the R99 mandatory features there is the risk that manufacturers' test

equipment may have design flaws, so the testing won't guarantee that terminals will work correctly when the network features are rolled out.

Harald (supported by Hannu) raises the concern that when it comes to errors in the call control/ session *management*/ mobility management behaviour of the terminal we need to involve CN1. Niels points to similar philosophy for documents such as GSM 09.94 (Hannu points to the fact that 09.04 was "owned" by CN1…).

Hannu *accepts* the proposal that the TR can be "owned" by RAN, with secondary responsibility in other groups who have a legitimate interest. This principle was agreed.

Niels points to 0713, which includes the draft scope. Hannu raises the concern that the scope should make it clear that the TR *won't* change the core specifications; Niels accepts the principle. **NOTED.**

NP-010712 **Principles for UE testing and related indication from UE.** *Alcatel, Ericsson, Motorola, Nokia, Nortel Networks, Qualcomm, T-Mobil.* **NOTED.**

NP-010713 **Errors discovered in the R99.** *Alcatel, Ericsson, Motorola, Nokia, Nortel Networks, Qualcomm, T-Mobil.* **NOTED.**

NP-010701 **TR 22.941.** *SA2.* Used as the basis for ad-hoc drafting meeting. **NOTED.**

15 Close of Meeting

The Chairman closed the meeting at 12:30 on 14th December 2001.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved to be sent following TSG CN meeting #14

TDoc #	Tdoc Title	to	cc	attach.
NP-010685	Protocol Specification of the Ze-interface	SA, SA3; CN4	-	none
NP-010688	removal of the non-progressed Rel-5/CAMEL4 functionalities	SA1	SA	none
NP-010698	**LI that Lawful Intercept (LI) FORWARDED FROM CN!**	CN WGs		

A.2 New TSs /TRs Approved at TSG CN meeting #14

TDoc #	Type	Spec	N_Vers	Title	Owner
NP-010633	TR	29.903	5.0.0	SUA Feasibility Study	CN4

A.3 New / Revised Work Items Approved at TSG CN meeting #14

TDoc #	Tdoc Title	WG	Rel
NP-010568	Interworking between IM CN subsystem and IP networks	CN3	Rel-5
NP-010569	Interworking between IM Subsystems and CS networks	CN3	Rel-5
NP-010570	Service Change and UDI Fallback	CN3	Rel-5
NP-010626	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface	CN4	Rel-5
NP-010645	Presence	CN1	Rel-5
NP-010692	OSA Stage 3	CN5	Rel-5
NP-010693	Intra Domain Connection of RAN Nodes to Multiple CN Nodes	CN1	Rel-5

A.4 Status of CRs following TSG CN meeting #14

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
03.78	A165		R98	F	NP-010580	N2-010726	approved	Re-insertion of missing CLI box into CAMEL Release 1998	7.6.1	7.7.0	N2	CAMEL2
03.78	A166		R97	F	NP-010581	N2-010748	approved	Correction to implementation of CR 03.78-A141r1	6.9.1	6.10.0	N2	CAMEL2
03.78	A167	1	R97	F	NP-010581	N2-010799	approved	Guidance to the SCI operation if the subscriber or the VPLMN do not support AoC service	6.9.1	6.10.0	N2	CAMEL2
03.78	A168		R98	A	NP-010581	N2-010797	approved	Correction to implementation of CR 03.78-A141r1	7.6.1	7.7.0	N2	CAMEL2
03.78	A169		R98	A	NP-010581	N2-010800	approved	Guidance to the SCI operation if the subscriber or the VPLMN do not support AoC service	7.6.1	7.7.0	N2	CAMEL2
04.08	A1117		R97	F	NP-010647	N1-011464	APPROVED	Handling of new/old TLLI in the network	6.16.0	6.17.0	N1	GPRS
04.08	A1119		R98	A	NP-010647	N1-011604	APPROVED	Handling of new/old TLLI in the network	7.15.0	7.16.0	N1	GPRS
04.10	A010		R98	F	NP-010616	N4-011115	approved	Usage of SS Version Indicator	7.0.1	7.1.0	N4	TEI
04.30	A003		R98	F	NP-010613	N4-011098	approved	Specify usage of SS Version Indicator	7.2.0	7.3.0	N4	LCS
04.64	A154	1	R97	F	NP-010648	N1-011969	APPROVED	IOV reset Conditions	6.9.0	6.10.0	N1	GPRS
04.64	A155		R98	A	NP-010648	N1-011847	APPROVED	IOV reset Conditions	7.4.0	7.5.0	N1	GPRS
04.64	A156		R99	A	NP-010648	N1-011848	APPROVED	IOV reset Conditions	8.6.0	8.7.0	N1	GPRS
09.02	A320		R98	F	NP-010613	N4-011029	approved	Clarification on LCS parameters in MAP	7.9.0	7.10.0	N4	LCS
09.18	A046		R97	F	NP-010646	N1-011449	APPROVED	Clarification of the periodic routing area update procedure	6.6.0	6.7.0	N1	GPRS
09.18	A047		R98	Å	NP-010646	N1-011450	APPROVED	Clarification of the periodic routing area update procedure	7.4.0	7.5.0	N1	GPRS
09.18	A048	1	R97	F	NP-010646	N1-011574	APPROVED	Correction of the Reject cause when T6-1 expires	6.6.0	6.7.0	N1	GPRS
09.18	A049		R98	F	NP-010646	N1-011605	APPROVED	Correction of the Reject cause when T6-1 expires	7.4.0	7.5.0	N1	GPRS
09.61	A021	1	R97	F	NP-010572	N3-010465	approved	Correction to Calling-station-id	6.5.0	6.6.0	N3	GPRS
09.61	A022	1	R98	A	NP-010572	N3-010464	approved	Correction to Calling-station-id	7.4.0	7.5.0	N3	GPRS
09.61	A023	1	R97	F	NP-010572	N3-010450	approved	Correction to 3GPP specific attribute: 3GPP-IMSI	6.5.0	6.6.0	N3	GPRS
09.61	A024	1	R98	A	NP-010572	N3-010449	approved	Correction to 3GPP specific attribute: 3GPP-IMSI	7.4.0	7.5.0	N3	GPRS
09.61	A025		R97	F	NP-010572	N3-010437	approved	Correction to 3GPP specific attributes containing MCC-MNC IMSI	6.5.0	6.6.0	N3	GPRS
09.61	A026		R98	A	NP-010572	N3-010438	approved	Correction to 3GPP specific attributes containing MCC-MNC IMSI	7.4.0	7.5.0	N3	GPRS
09.61	A027		R97	F	NP-010672	N3-010474	approved	Standard method for updating information between GPRS and external PDN using RADIUS	6.5.0	6.6.0	N3	GPRS
09.61	A028		R98	A	NP-010672	N3-010473	approved	Standard method for updating information between GPRS and external PDN using RADIUS	7.4.0	7.5.0	N3	GPRS
09.61	A029		R98	A	NP-010672	N3-010477	approved	Standard method for interworking between GPRS and external PDN using RADIUS	7.4.0	7.5.0	N3	GPRS
09.61	A030		R97	F	NP-010672	N3-010478	approved	Standard method for interworking between GPRS and external PDN using RADIUS	6.5.0	6.6.0	N3	GPRS
23.003	033		Rel-5	C	NP-010630	N4-011070	approved	Rules for TMSI partitioning	5.1.0	5.2.0	N4	IUFLEX
23.003	034		Rel-4	F	NP-010620	N4-011182	approved	Introduction of Global CN-ID definition	4.2.0	4.3.0	N4	OoBTC
23.003	035		Rel-5	A	NP-010620	N4-011183	approved	Introduction of Global CN-ID definition	5.1.0	5.2.0	N4	OoBTC
23.009	052	3	Rel-5	C	NP-010659	N1-012042	APPROVED	Introduction of Intra Domain Connection of RAN	4.2.0	5.0.0	N1	IUFLEX
23.009	054		R99	F	NP-010651	N1-011556	APPROVED	Multicall bearer selection	3.8.0	3.9.0	N1	Multicall
23.009	055		Rel-4	A	NP-010651	N1-011557	APPROVED	Multicall bearer selection	4.2.0	4.3.0	N1	Multicall
23.009	056	2	R99	F	NP-010682	N1-011971	APPROVED	Usage of Location Reporting for Relocation and Inter-system Handover	3.8.0	3.9.0	N1	GSM/UMTSInterworking
23.009	056	2	R99	F	NP-010649	N1-011971	REVISED TO NP-010682	Usage of Location Reporting for Relocation and Inter-system Handover	3.8.0	3.9.0	N1	GSM/UMTSInterworking
23.009	057	2	Rel-4	A	NP-010682	N1-011972	APPROVED	Usage of Location Reporting for Relocation and Inter-system Handover	4.2.0	4.3.0	N1	GSM/UMTSInterworking
23.009	057	2	Rel-4	A	NP-010649	N1-011972	REVISED TO NP-010682	Usage of Location Reporting for Relocation and Inter-system Handover	4.2.0	4.3.0	N1	GSM/UMTSInterworking
23.009	059		R99	F	NP-010682	N1-011806	APPROVED	E-interface protocol during the supervision phase	3.8.0	3.9.0	N1	GSM/UMTS interworking

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
23.009	059		R99	F	NP-010649	N1-011806	REVISED TO NP-010682	E-interface protocol during the supervision phase	3.8.0	3.9.0	N1	GSM/UMTS interworking
23.009	060		Rel-4	A	NP-010682	N1-011807	APPROVED	E-interface protocol during the supervision phase	4.2.0	4.3.0	N1	GSM/UMTS interworking
23.009	060		Rel-4	A	NP-010649	N1-011807	REVISED TO NP-010682	E-interface protocol during the supervision phase	4.2.0	4.3.0	N1	GSM/UMTS interworking
23.009	061	4	Rel-5	B	NP-010661	N1-012055	APPROVED	Reflection of RRC changes in 44.018 to 23.009	4.2.0	5.0.0	N1	Alignment of 3G functional split and Iu.
23.009	062	1	R99	F	NP-010649	N1-012026	REVISED TO NP-010683	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	3.8.0	3.9.0	N1	GSM/UMTS Interworking
23.009	062	1	R99	F	NP-010683	N1-012026	REVISED TO NP-010691	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	3.8.0	3.9.0	N1	GSM/UMTS Interworking
23.009	062	2	R99	F	NP-010691	N1-012026	APPROVED	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	3.8.0	3.9.0	N1	GSM/UMTS Interworking
23.009	063	1	Rel-4	A	NP-010649	N1-012027	REVISED TO NP-010683	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	4.2.0	4.3.0	N1	GSM/UMTS Interworking
23.009	063	2	Rel-4	A	NP-010683	N1-012027	REVISED TO NP-010691	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	4.2.0	4.3.0	N1	GSM/UMTS Interworking
23.009	063	3	Rel-4	A	NP-010691	N1-012027	APPROVED	GSM to UMTS Handover: Iu-LOCATION-REPORTING message reception	4.2.0	4.3.0	N1	GSM/UMTS Interworking
23.018	078		R99	F	NP-010616	N4-011041	approved	Missing connector in procedure Process_Call_Waiting_MSC	3.9.0	3.10.0	N4	TEI
23.018	079		R99	F	NP-010609	N4-011201	approved	Handling of Reconnect on leg2 disconnect	3.9.0	3.10.0	N4	CAMEL3
23.018	080		Rel-4	A	NP-010609	N4-011202	approved	Handling of Reconnect on leg2 disconnect	4.4.0	4.5.0	N4	CAMEL3
23.018	081		Rel-5	A	NP-010609	N4-011203	approved	Handling of Reconnect on leg2 disconnect	5.1.0	5.2.0	N4	CAMEL3
23.018	089	2	R99	F	NP-010609	N4-011412	approved	Corrections in the ATI mechanism description	3.9.0	3.10.0	N4	CAMEL3
23.018	090	2	Rel-4	A	NP-010609	N4-011413	approved	Corrections in the ATI mechanism description	4.4.0	4.5.0	N4	CAMEL3
23.018	091	2	Rel-5	A	NP-010609	N4-011414	approved	Corrections in the ATI mechanism description	5.1.0	5.2.0	N4	CAMEL3
23.078	322	1	R99	F	NP-010583	N2-010810	approved	Handling of Reconnect on the MSC-VLR Interface	3.10.0	3.11.0	N2	CAMEL3
23.078	323	1	Rel-4	A	NP-010583	N2-010843	approved	Handling of Reconnect on the MSC-VLR Interface	4.2.0	4.3.0	N2	CAMEL3
23.078	324	1	R99	F	NP-010583	N2-010804	approved	Indication of deletion of CSI in Notify Subscriber Data Change	3.10.0	3.11.0	N2	CAMEL3
23.078	325	1	Rel-4	A	NP-010583	N2-010815	approved	Indication of deletion of CSI in Notify Subscriber Data Change	4.2.0	4.3.0	N2	CAMEL3
23.078	328	1	R99	F	NP-010583	N2-010824	approved	Clarification of the CUG data used in IDP	3.10.0	3.11.0	N2	CAMEL3
23.078	329	1	Rel-4	A	NP-010583	N2-010853	approved	Clarification of the CUG data used in IDP	4.2.0	4.3.0	N2	CAMEL3
23.078	331	1	R99	F	NP-010583	N2-010827	approved	TDP3 triggering criterion in MO case	3.10.0	3.11.0	N2	CAMEL3
23.078	332	1	Rel-4	A	NP-010583	N2-010828	approved	TDP3 triggering criterion in MO case	4.2.0	4.3.0	N2	CAMEL3
23.078	333	2	R99	F	NP-010583	N2-010811	approved	Guidance to the SCI operation if the subscriber or the VPLMN do not support AoC service	3.10.0	3.11.0	N2	CAMEL3
23.078	334		R99	F	NP-010582	N2-010773	approved	Inclusion of D-CSI in arming/disarming mechanism	3.10.0	3.11.0	N2	CAMEL3
23.078	335	2	R99	F	NP-010582	N2-010808	approved	Clarification on ATM	3.10.0	3.11.0	N2	CAMEL3
23.078	336	1	R99	F	NP-010582	N2-010805	approved	Clarification on NSCD when data is withdrawn	3.10.0	3.11.0	N2	CAMEL3
23.078	337		Rel-4	A	NP-010582	N2-010774	approved	Inclusion of D-CSI in arming/disarming mechanism	4.2.0	4.3.0	N2	CAMEL3
23.078	338		R99	F	NP-010582	N2-010775	approved	Correction of SDL to text extension	3.10.0	3.11.0	N2	CAMEL3
23.078	339		Rel-4	A	NP-010582	N2-010776	approved	Correction of SDL to text extension	4.2.0	4.3.0	N2	CAMEL3
23.078	340	2	R99	F	NP-010582	N2-010845	approved	Introduction of SMS Reference Number	3.10.0	3.11.0	N2	CAMEL3
23.078	341		Rel-4	A	NP-010583	N2-010812	approved	Guidance to the SCI operation if the subscriber or the VPLMN do not support AoC service	4.2.0	4.3.0	N2	CAMEL3
23.078	342		Rel-4	A	NP-010582	N2-010820	approved	Clarification on NSCD when data is withdrawn	4.2.0	4.3.0	N2	CAMEL3
23.078	343		Rel-4	A	NP-010582	N2-010842	approved	Clarification on ATM	4.2.0	4.3.0	N2	CAMEL3
23.078	344		Rel-4	A	NP-010582	N2-010846	approved	Introduction of SMS Reference Number	4.2.0	4.3.0	N2	CAMEL3
23.078	345		R99	F	NP-010587	N2-010871	approved	Correction to Procedure "Handle_AC" (missing check box exit)	3.10.0	3.11.0	N2	CAMEL3
23.078	346	1	R99	F	NP-010587	N2-010999	approved	Corrections in the Call Information Report/Request operation	3.10.0	3.11.0	N2	CAMEL3

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
23.078	347		R99	F	NP-010587	N2-010895	approved	Tccd shall be stopped in procedure Handle_ACR	3.10.0	3.11.0	N2	CAMEL3
23.078	348		R99	F	NP-010587	N2-010896	approved	Correction to ECT Treatment Indicator description	3.10.0	3.11.0	N2	CAMEL3
23.078	351		R99	F	NP-010587	N2-010899	approved	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	3.10.0	3.11.0	N2	CAMEL3
23.078	352	1	R99	F	NP-010588	N2-010997	approved	Guidance to the usage of SCI-GPRS in the case of no support of AoC	3.10.0	3.11.0	N2	CAMEL3
23.078	355	1	R99	F	NP-010588	N2-011012	approved	Clarification on Connect and ContinueWithArgument about the SII2	3.10.0	3.11.0	N2	CAMEL3
23.078	359	1	R99	F	NP-010588	N2-010976	approved	Clarification on ATM about simultaneous SS modifications	3.10.0	3.11.0	N2	CAMEL3
23.078	362		Rel-4	A	NP-010588	N2-010977	approved	Clarification on ATM about simultaneous SS modifications	4.2.0	4.3.0	N2	CAMEL3
23.078	363	4	R99	F	NP-010588	N2-011040	approved	Clarification: use of SS-Code in ATM, ATSI and NSDC	3.10.0	3.11.0	N2	CAMEL3
23.078	364		Rel-4	A	NP-010587	N2-010990	approved	Reporting QoS changes shall not be restricted to "User initiated" QoS changes	4.2.0	4.3.0	N2	CAMEL3
23.078	365		Rel-4	A	NP-010587	N2-010998	approved	Correction to Procedure "Handle_AC" (missing check box exit)	4.2.0	4.3.0	N2	CAMEL3
23.078	366		Rel-4	A	NP-010587	N2-011000	approved	Corrections in the Call Information Report/Request operation	4.2.0	4.3.0	N2	CAMEL3
23.078	367		Rel-4	A	NP-010587	N2-011009	approved	Tccd shall be stopped in procedure Handle_ACR	4.2.0	4.3.0	N2	CAMEL3
23.078	368		Rel-4	A	NP-010587	N2-011010	approved	Correction to ECT Treatment Indicator description	4.2.0	4.3.0	N2	CAMEL3
23.078	369		Rel-4	A	NP-010588	N2-011026	approved	Guidance to the usage of SCI-GPRS in the case of no support of AoC	4.2.0	4.3.0	N2	CAMEL3
23.078	370		Rel-4	A	NP-010588	N2-011027	approved	Clarification on Connect and ContinueWithArgument about the SII2	4.2.0	4.3.0	N2	CAMEL3
23.078	371		Rel-4	A	NP-010588	N2-011041	approved	Clarification: use of SS-Code in ATM, ATSI and NSDC	4.2.0	4.3.0	N2	CAMEL3
23.083	008		Rel-4	F	NP-010623	N4-011042	approved	Missing connector in procedure Process_Call_Waiting_MSC	4.2.0	4.3.0	N4	TEI4
23.116	003	1	R99	F	NP-010617	N4-011228	approved	Clarification of methodology for maintaining data consistency in Supercharger	3.1.0	3.2.0	N4	Super Charger
23.116	004	1	Rel-4	A	NP-010617	N4-011229	approved	Clarification of methodology for maintaining data consistency in Supercharger	4.1.0	4.2.0	N4	Super Charger
23.153	028		Rel-4	F	NP-010620	N4-011279	approved	Removal of "No Data" SDUs	4.3.0	4.4.0	N4	OoBTC
23.153	029		Rel-4	F	NP-010620	N4-011369	approved	Clarification for Codec Modification in case of SS/IN interworking	4.3.0	4.4.0	N4	OoBTC
23.205	011		Rel-5	B	NP-010631	N4-011080	approved	Introduction of MGW Congestion Handling	4.2.0	5.0.0	N4	TEI5
23.205	012		Rel-4	F	NP-010619	N4-011082	approved	Correction of Handover/Relocation for Speech and Non-Speech Calls	4.2.0	4.3.0	N4	CSSPLIT
23.205	013	1	Rel-5	B	NP-010631	N4-011388	approved	Management locking of MG	4.2.0	5.0.0	N4	TEI5
23.205	014	2	Rel-4	F	NP-010619	N4-011427	approved	New timer to support long paging in bearer independent network	4.2.0	4.3.0	N4	CSSPLIT
23.205	016	1	Rel-4	F	NP-010619	N4-011361	approved	Correction for Release of Network Bearer	4.2.0	4.3.0	N4	CSSPLIT
23.910	031		Rel-4	F	NP-010574	N3-010410	approved	SDU size for transparent data at 33.6 kbit/s	4.3.0	4.4.0	N3	CS Bearer
23.910	032	2	Rel-5	D	NP-010604	N3-010593	approved	Terminology clarifications as requested by TSG GERAN	4.3.0	4.4.0	N3	TEI
23.912	001	1	R99	F	NP-010617	N4-011230	approved	Clarification of methodology for maintaining data consistency in Supercharger	3.0.2	3.1.0	N4	Super Charger
23.912	002	1	Rel-4	A	NP-010617	N4-011231	approved	Clarification of methodology for maintaining data consistency in Supercharger	4.0.0	4.1.0	N4	Super Charger
23.912	003		R99	F	NP-010617	N4-011327	approved	Update Location in Supercharger following receipt of Reset message from HLR	3.0.2	3.1.0	N4	Super Charger
23.912	004		Rel-4	A	NP-010617	N4-011328	approved	Update Location in Supercharger following receipt of Reset message from HLR	4.0.0	4.1.0	N4	Super Charger
24.007	042	1	R99	F	NP-010682	N1-011810	APPROVED	Clarification of the send sequence number mechanism	3.7.0	3.8.0	N1	GSM/UMTS interworking
24.007	042	1	R99	F	NP-010649	N1-011810	REVISED TO NP-010682	Clarification of the send sequence number mechanism	3.7.0	3.8.0	N1	GSM/UMTS interworking
24.007	043	1	Rel-4	A	NP-010682	N1-011811	APPROVED	Clarification of the send sequence number mechanism	4.0.0	4.1.0	N1	GSM/UMTS interworking
24.007	043	1	Rel-4	A	NP-010649	N1-011811	REVISED TO NP-010682	Clarification of the send sequence number mechanism	4.0.0	4.1.0	N1	GSM/UMTS interworking
24.008	458	3	Rel-5	B	NP-010660	N1-011620	APPROVED	Introduction of Source Statistics Descriptor	5.1.0	5.2.0	N1	TEI5
24.008	477	1	R99	F	NP-010648	N1-011607	APPROVED	Correction of the criteria for the usage of combined RAU	3.9.0	3.10.0	N1	GPRS
24.008	478	1	Rel-4	A	NP-010648	N1-011608	APPROVED	Correction of the criteria for the usage of combined RAU	4.4.0	4.5.0	N1	GPRS
24.008	479	1	Rel-5	A	NP-010648	N1-011609	APPROVED	Correction of the criteria for the usage of combined RAU	5.1.0	5.2.0	N1	GPRS

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.008	480		Rel-4	F	NP-010654	N1-011458	APPROVED	Correction of default codec selection criterion	4.4.0	4.5.0	N1	TFO-AMR
24.008	481		Rel-5	A	NP-010654	N1-011459	APPROVED	Correction of default codec selection criterion	5.1.0	5.2.0	N1	TFO-AMR
24.008	485	1	R99	F	NP-010678	N1-011578	APPROVED	Mapping of NAS procedures to RRC Establishment Causes	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	485	1	R99	F	NP-010650	N1-011578	REVISED TO NP-010678	Mapping of NAS procedures to RRC Establishment Causes	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	486	1	Rel-4	A	NP-010678	N1-011579	APPROVED	Mapping of NAS procedures to RRC Establishment Causes	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	486	1	Rel-4	A	NP-010650	N1-011579	REVISED TO NP-010678	Mapping of NAS procedures to RRC Establishment Causes	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	487	1	Rel-5	A	NP-010678	N1-011580	APPROVED	Mapping of NAS procedures to RRC Establishment Causes	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	487	1	Rel-5	A	NP-010650	N1-011580	REVISED TO NP-010678	Mapping of NAS procedures to RRC Establishment Causes	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	488		Rel-5	F	NP-010660	N1-011469	APPROVED	Correction of missing actions on RAND and T3218, T3316	5.1.0	5.2.0	N1	TEI5
24.008	489	2	Rel-5	B	NP-010658	N1-011993	APPROVED	LCS capability for GPRS	5.1.0	5.2.0	N1	LCS
24.008	493	2	Rel-5	C	NP-010659	N1-011621	APPROVED	Usage of TMSI in Intra Domain Connection of RAN Nodes to Multiple CN Nodes	5.1.0	5.2.0	N1	IUFLEX
24.008	494	2	Rel-4	F	NP-010655	N1-011973	APPROVED	RR Establishment Causes for LCS procedures	4.4.0	4.5.0	N1	LCS1-PS
24.008	495	2	Rel-5	A	NP-010655	N1-011974	APPROVED	RR Establishment Causes for LCS procedures	5.1.0	5.2.0	N1	LCS1-PS
24.008	496		R99	F	NP-010647	N1-011527	approved	P-TMSI Signature handling	3.9.0	3.10.0	N1	GPRS
24.008	497		Rel-4	A	NP-010647	N1-011528	approved	P-TMSI Signature handling	4.4.0	4.5.0	N1	GPRS
24.008	498		Rel-5	A	NP-010647	N1-011529	approved	P-TMSI Signature handling	5.1.0	5.2.0	N1	GPRS
24.008	499		R99	F	NP-010652	N1-011535	approved	Correction on maximum transfer delay value in QoS IE	3.9.0	3.10.0	N1	QoS enhancements
24.008	500		Rel-4	A	NP-010652	N1-011536	approved	Correction on maximum transfer delay value in QoS IE	4.4.0	4.5.0	N1	QoS enhancements
24.008	501		Rel-5	A	NP-010652	N1-011537	approved	Correction on maximum transfer delay value in QoS IE	5.1.0	5.2.0	N1	QoS enhancements
24.008	505		R99	A	NP-010647	N1-011613	approved	Handling of new/old TLLI in the network	3.9.0	3.10.0	N1	GPRS
24.008	506		Rel-4	A	NP-010647	N1-011614	approved	Handling of new/old TLLI in the network	4.4.0	4.5.0	N1	GPRS
24.008	507		Rel-5	A	NP-010647	N1-011615	approved	Handling of new/old TLLI in the network	5.1.0	5.2.0	N1	GPRS
24.008	510	2	Rel-5	F	NP-010660	N1-011995	approved	Clarification on the EDGE parameters in the Mobile Station Classmark 3 IE	5.1.0	5.2.0	N1	TEI5
24.008	516	2	Rel-5	B	NP-010657	N1-012018	approved	Use of Supported Codec List (SCL) IE for all codec types	5.1.0	5.2.0	N1	AMR-WB
24.008	521	2	R99	F	NP-010650	N1-012046	REVISED TO NP-010677	Impact of regional roaming restrictions on the GMM context	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	521	2	R99	F	NP-010677	N1-012046	REVISED TO NP-010689	Impact of regional roaming restrictions on the GMM context	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	521	3	R99	F	NP-010689		REVISED TO NP-010700	Impact of regional roaming restrictions on the GMM context	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	521	4	R99	F	NP-010700		approved	Impact of regional roaming restrictions on the GMM context	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	522	2	R99	F	NP-010678	N1-012052	approved	Conditions for the deletion of the equal PLMN list	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	522	2	R99	F	NP-010650	N1-012052	REVISED TO NP-010678	Conditions for the deletion of the equal PLMN list	3.9.0	3.10.0	N1	GSM/UMTS Interworking
24.008	524	2	Rel-4	A	NP-010650	N1-012047	REVISED TO NP-010677	Impact of regional roaming restrictions on the GMM context	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	524	2	Rel-4	A	NP-010677	N1-012047	REVISED TO NP-010689	Impact of regional roaming restrictions on the GMM context	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	524	3	Rel-4	A	NP-010689		REVISED TO	Impact of regional roaming restrictions on the GMM context	4.4.0	4.5.0	N1	GSM/UMTS

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
					NP-010700							Interworking
24.008	524	4	Rel-4	A	NP-010700		approved	Impact of regional roaming restrictions on the GMM context	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	525	2	Rel-4	A	NP-010678	N1-012053	approved	Conditions for the deletion of the equal PLMN list	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	525	2	Rel-4	A	NP-010650	N1-012053	REVISED TO NP-010678	Conditions for the deletion of the equal PLMN list	4.4.0	4.5.0	N1	GSM/UMTS Interworking
24.008	527	2	Rel-5	A	NP-010650	N1-012048	REVISED TO NP-010677	Impact of regional roaming restrictions on the GMM context	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	527	2	Rel-5	A	NP-010677	N1-012048	REVISED TO NP-010689	Impact of regional roaming restrictions on the GMM context	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	527	3	Rel-5	A	NP-010689		REVISED TO NP-010700	Impact of regional roaming restrictions on the GMM context	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	527	4	Rel-5	A	NP-010700		approved	Impact of regional roaming restrictions on the GMM context	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	528	2	Rel-5	A	NP-010678	N1-012054	approved	Conditions for the deletion of the equal PLMN list	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	528	2	Rel-5	A	NP-010650	N1-012054	REVISED TO NP-010678	Conditions for the deletion of the equal PLMN list	5.1.0	5.2.0	N1	GSM/UMTS Interworking
24.008	531		Rel-4	F	NP-010656	N1-011996	approved	CR to 24.008. Corrections to references.	4.4.0	4.5.0	N1	TEI4
24.008	532		Rel-5	A	NP-010665		approved	CR to 24.008. Corrections to references.	5.1.0	5.2.0	N1	TEI4
24.008	533		Rel-4	F	NP-010679		REVISED TO NP-010690	Introduction of GERAN feature indication	4.4.0	4.5.0	N1	GERAN improvements 2
24.008	533	1	Rel-4	F	NP-010690		approved	Introduction of GERAN feature indication	4.4.0	4.5.0	N1	GERAN improvements 2
24.008	534		Rel-5	A	NP-010679		REVISED TO NP-010690	Introduction of GERAN feature indication	5.1.0	5.2.0	N1	GERAN improvements 2
24.008	534	1	Rel-5	A	NP-010690		approved	Introduction of GERAN feature indication	5.1.0	5.2.0	N1	GERAN improvements 2
24.010	004		R99	A	NP-010616	N4-011116	approved	Usage of SS Version Indicator	3.1.0	3.2.0	N4	TEI
24.010	005		Rel-4	A	NP-010616	N4-011117	approved	Usage of SS Version Indicator	4.1.0	4.2.0	N4	TEI
24.022	006	3	Rel-5	D	NP-010604	N3-010596	approved	Terminology clarifications as requested by TSG GERAN	4.0.0	5.0.0	N3	TEI
24.030	007		R99	F	NP-010614	N4-011072	approved	CR 004 wrongly implemented	3.2.0	3.3.0	N4	TEI5
24.030	008		R99	A	NP-010613	N4-011099	approved	Specify usage of SS Version Indicator	3.2.0	3.3.0	N4	LCS
24.030	009		Rel-4	A	NP-010613	N4-011100	approved	Specify usage of SS Version Indicator	4.1.0	4.2.0	N4	LCS
24.030	011		Rel-4	F	NP-010621	N4-011145	approved	Correction of MO-LR procedure	4.1.0	4.2.0	N4	LCS1
24.080	013		R99	F	NP-010612	N4-011265	approved	Message type: completion of alignment to 24.007 and 24.008	3.5.0	3.6.0	N4	GSM / UMTS interworking
24.080	014		Rel-4	A	NP-010612	N4-011266	approved	Message type: completion of alignment to 24.007 and 24.008	4.1.0	4.2.0	N4	GSM / UMTS interworking
24.135	002	1	R99		NP-010616	N4-011259	approved	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	3.1.0	3.2.0	N4	TEI
24.135	003	1	Rel-4		NP-010616	N4-011260	approved	Clarification on SI value for Mobile terminating call (reuse an existing traffic channel)	4.0.0	4.1.0	N4	TEI
27.001	069		Rel-4	F	NP-010574	N3-010409	approved	SDU size for transparent data at 33.6 kbit/s	4.5.0	4.6.0	N3	CS Bearer
27.001	070	3	Rel-5	D	NP-010604	N3-010590	approved	Terminology clarifications as requested by TSG GERAN	4.5.0	5.0.0	N3	TEI
27.002	008	3	Rel-5	D	NP-010604	N3-010591	approved	Terminology clarifications as requested by TSG GERAN	4.0.0	5.0.0	N3	TEI
27.003	009	3	Rel-5	D	NP-010604	N3-010592	approved	Terminology clarifications as requested by TSG GERAN	4.1.0	4.2.0	N3	TEI
27.060	016	2	Rel-5	D	NP-010604	N3-010594	approved	Terminology clarifications as requested by TSG GERAN	4.0.0	5.0.0	N3	TEI
29.002	312		R99	A	NP-010613	N4-011030	approved	Clarification on LCS parameters in MAP	3.10.0	3.11.0	N4	LCS
29.002	313		Rel-4	A	NP-010613	N4-011031	approved	Clarification on LCS parameters in MAP	4.5.0	4.6.0	N4	LCS
29.002	314		Rel-4	F	NP-010623	N4-011043	approved	Handling of linked operations in the MAP protocol machine	4.5.0	4.6.0	N4	TEI4

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.002	315		R99	F	NP-010616	N4-011044	approved	Alignment of SDL with text for procedure Process_Components in the MAP protocol machine	3.10.0	3.11.0	N4	TEI
29.002	316		Rel-4	F	NP-010621	N4-011285	approved	Corrections on the SDL diagrams for LCS	4.5.0	4.6.0	N4	LCS1
29.002	317	1	R99	F	NP-010609	N4-011197	approved	Indication of deletion of CSI in Notify Subscriber Data Change	3.10.0	3.11.0	N4	CAMEL3
29.002	318	1	Rel-4	A	NP-010609	N4-011198	approved	Indication of deletion of CSI in Notify Subscriber Data Change	4.5.0	4.6.0	N4	CAMEL3
29.002	319		R99	F	NP-010614	N4-011073	approved	Correct length of Add-Geographical Information	3.10.0	3.11.0	N4	LCS
29.002	320		Rel-4	A	NP-010614	N4-011074	approved	Correct length of Add-Geographical Information	4.5.0	4.6.0	N4	LCS
29.002	321		R99	F	NP-010611	N4-011090	approved	Clarify encoding of RNC Id	3.10.0	3.11.0	N4	Handover
29.002	322		Rel-4	A	NP-010611	N4-011091	approved	Clarify encoding of RNC Id	4.5.0	4.6.0	N4	Handover
29.002	323		R99	F	NP-010611	N4-011093	approved	Clarify encoding of RANAP parameters in MAP	3.10.0	3.11.0	N4	Handover
29.002	324		Rel-4	A	NP-010611	N4-011094	approved	Clarify encoding of RANAP parameters in MAP	4.5.0	4.6.0	N4	Handover
29.002	325		Rel-4	F	NP-010623	N4-011097	approved	Clarifications on long FTN	4.5.0	4.6.0	N4	TEI4
29.002	330	1	R99	F	NP-010617	N4-011226	approved	Clarification of methodology for maintaining data consistency in Supercharger	3.10.0	3.11.0	N4	Super Charger
29.002	331	1	Rel-4	A	NP-010617	N4-011227	approved	Clarification of methodology for maintaining data consistency in Supercharger	4.5.0	4.6.0	N4	Super Charger
29.002	333		R99	F	NP-010615	N4-011172	approved	Addition of RAB ID to Prepare Handover procedure	3.10.0	3.11.0	N4	Multicall
29.002	334		Rel-4	A	NP-010615	N4-011173	approved	Addition of RAB ID to Prepare Handover procedure	4.5.0	4.6.0	N4	Multicall
29.002	335		R99	F	NP-010611	N4-011174	approved	Correction to the Allowed GSM Algorithms parameter	3.10.0	3.11.0	N4	Handover
29.002	336		Rel-4	A	NP-010611	N4-011175	approved	Correction to the Allowed GSM Algorithms parameter	4.5.0	4.6.0	N4	Handover
29.002	337	1	Rel-4	F	NP-010623	N4-011177	approved	Correction of references	4.5.0	4.6.0	N4	TEI4
29.002	338		R99	F	NP-010609	N4-011189	approved	CUG-Info is not exported from 29.002	3.10.0	3.11.0	N4	CAMEL3
29.002	339		Rel-4	A	NP-010609	N4-011190	approved	CUG-Info is not exported from 29.002	4.5.0	4.6.0	N4	CAMEL3
29.002	340		R99	F	NP-010609	N4-011208	approved	Clarification on NSCD when data is withdrawn	3.10.0	3.11.0	N4	CAMEL3
29.002	341		Rel-4	A	NP-010609	N4-011209	approved	Clarification on NSCD when data is withdrawn	4.5.0	4.6.0	N4	CAMEL3
29.002	342		R99	F	NP-010609	N4-011210	approved	Clarification of sending CAMEL information in stand alone ISD case	3.10.0	3.11.0	N4	CAMEL3
29.002	343		Rel-4	A	NP-010609	N4-011211	approved	Clarification of sending CAMEL information in stand alone ISD case	4.5.0	4.6.0	N4	CAMEL3
29.002	344		Rel-4	F	NP-010621	N4-011262	approved	Correction of the priority for "SRI for LCS"	4.5.0	4.6.0	N4	LCS1
29.002	346		R99	F	NP-010609	N4-011272	approved	ASN.1 correction	3.10.0	3.11.0	N4	CAMEL3
29.002	347		Rel-4	A	NP-010609	N4-011273	approved	ASN.1 correction	4.5.0	4.6.0	N4	CAMEL3
29.002	349	2	Rel-4	A	NP-010623	N4-011437	approved	Handling the MNRR flag in the HLR & SMS-GMSC	4.5.0	4.6.0	N4	TEI4
29.002	353	1	R99	F	NP-010611	N4-011432	approved	Minimum MAP application context for G2G inter-MSC handover	3.10.0	3.11.0	N4	Handover
29.002	354	1	Rel-4	A	NP-010611	N4-011433	approved	Minimum MAP application context for G2G inter-MSC handover	4.5.0	4.6.0	N4	Handover
29.002	355	1	Rel-5	B	NP-010631	N4-011381	approved	LCS Capability Handling for GPRS MS's	4.5.0	5.0.0	N4	TEI5
29.002	358	2	R99	F	NP-010616	N4-011438	approved	Alignment of parameter lengths with those prescribed in 08.08	3.10.0	3.11.0	N4	TEI
29.002	359	2	Rel-4	A	NP-010616	N4-011439	approved	Alignment of parameter lengths with those prescribed in 08.08	4.5.0	4.6.0	N4	TEI
29.002	360	1	Rel-4	F	NP-010622	N4-011423	approved	Aligning the security header elements with TS33.200	4.5.0	4.6.0	N4	SEC1-
29.002	363	-	R99	F	NP-010673	N4-011393	approved	Syntax error in the ATM result and ATSI result	3.10.0	3.11.0	N4	CAMEL3
29.002	364	-	Rel-4	F	NP-010673	N4-011394	approved	Syntax error in the ATM result and ATSI result	4.5.0	4.6.0	N4	CAMEL3
29.007	042		R99	F	NP-010571	N3-010401	approved	Removal of SIWF	3.8.0	3.9.0	N3	CS Bearer
29.007	043		Rel-4	A	NP-010571	N3-010402	approved	Removal of SIWF	4.2.0	4.3.0	N3	CS Bearer
29.007	044	3	Rel-5	D	NP-010604	N3-010597	approved	Terminology clarifications as requested by TSG GERAN	4.2.0	5.0.0	N3	TEI
29.007	045		Rel-4	F	NP-010574	N3-010404	approved	SDU size for transparent data at 33.6 kbit/s	4.2.0	4.3.0	N3	CS Bearer
29.010	035	2	R99	F	NP-010611	N4-011232	approved	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	3.6.0	3.7.0	N4	Handover
29.010	036	2	Rel-4	A	NP-010611	N4-011233	approved	LCS/HO Location Reporting – UMTS to GSM and UMTS to UMTS	4.1.0	4.2.0	N4	Handover
29.010	039		R99	F	NP-010611	N4-011095	approved	Global replace of BSS-APDU with AN-APDU	3.6.0	3.7.0	N4	Handover
29.010	040		Rel-4	A	NP-010611	N4-011096	approved	Global replace of BSS-APDU with AN-APDU	4.1.0	4.2.0	N4	Handover
29.010	042	1	R99	F	NP-010614	N4-011420	approved	Alignment of 29.010 to 25.413 for LCS	3.6.0	3.7.0	N4	LCS
29.010	043		R99	F	NP-010616	N4-011316	approved	Removal of deleted MAP operations	3.6.0	3.7.0	N4	TEI
29.010	044		Rel-4	A	NP-010616	N4-011317	approved	Removal of deleted MAP operations	4.1.0	4.2.0	N4	TEI
29.018	019		R99	A	NP-010646	N1-011451	approved	Clarification of the periodic routing area update procedure	3.7.0	3.8.0	N1	GPRS

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.018	020		Rel-4	A	NP-010646	N1-011452	approved	Clarification of the periodic routing area update procedure	4.1.0	4.2.0	N1	GPRS
29.018	022		R99	F	NP-010653	N1-011808	approved	Correction of the Location Update for non-GPRS service procedure	3.7.0	3.8.0	N1	TEI
29.018	023		Rel-4	A	NP-010653	N1-011809	approved	Correction of the Location Update for non-GPRS service procedure	4.1.0	4.2.0	N1	TEI
29.018	024	1	Rel-5	C	NP-010659	N1-011992	approved	Introduction of Intra Domain Connection of RAN	4.1.0	5.0.0	N1	IUFLEX
29.018	025	1	Rel-5	C	NP-010659	N1-011981	approved	Intra-Domain Connection of RAN Nodes to Multiple CN Nodes	4.1.0	5.0.0	N1	IUFLEX
29.060	249		R99	F	NP-010610	N4-011034	approved	Clarification on the handling of the GTP MM Context IE	3.10.0	3.11.0	N4	GTP enhancement
29.060	252	1	R99	F	NP-010610	N4-011218	approved	Clarification on the GTP PDP context IE	3.10.0	3.11.0	N4	GTP enhancement
29.060	255		Rel-4	F	NP-010623	N4-011047	approved	Add APN.OI sub-field to the APN in PDP context IE	4.2.0	4.3.0	N4	TEI4
29.060	259	1	Rel-5	F	NP-010630	N4-011194	approved	Relaying of Identification Request and SGSN Context Request message to another SGSN.	4.2.0	5.0.0	N4	IUFLEX
29.060	264		Rel-4	F	NP-010623	N4-011104	approved	Clarification of header marker setting for Error Indication	4.2.0	4.3.0	N4	TEI4
29.060	267	1	R99	F	NP-010616	N4-011220	approved	GGSN address for control plane must not be changed in "Update PDP Context Response"	3.10.0	3.11.0	N4	TEI
29.060	268	1	Rel-4	A	NP-010616	N4-011221	approved	GGSN address for control plane must not be changed in "Update PDP Context Response"	4.2.0	4.3.0	N4	TEI
29.060	272		Rel-5	F	NP-010631	N4-011075	approved	Support for Radio Priority LCS	4.2.0	5.0.0	N4	LCS1
29.060	273		Rel-4	F	NP-010610	N4-011216	approved	Clarification on the handling of the GTP MM Context IE	4.2.0	4.3.0	N4	GTP enhancement
29.060	274		Rel-4	A	NP-010610	N4-011219	approved	Clarification on the GTP PDP context IE	4.2.0	4.3.0	N4	GTP enhancement
29.060	275	1	R99	F	NP-010610	N4-011428	approved	Clarification on the handling of protocol configuration options IE	3.10.0	3.11.0	N4	GTP enhancement
29.060	282		Rel-5	D	NP-010631	N4-011429	approved	Clarification on IMSI format (Unused fields	4.2.0	4.3.0	N4	TEI5
29.060	283		Rel-4	A	NP-010696	-	approved	Clarification on the handling of protocol configuration options IE	4.2.0	4.3.0	N4	GTP enhancement
29.061	023	2	Rel-4	A	NP-010672	N3-010471	approved	Standard method for updating information between GPRS and external PDN using RADIUS	4.2.0	4.3.0	N3	GPRS
29.061	024	2	Rel-4	A	NP-010672	N3-010475	approved	Standard method for interworking between GPRS and external PDN using RADIUS	4.2.0	4.3.0	N3	GPRS
29.061	027	1	R99	A	NP-010572	N3-010463	approved	Correction to Calling-station-id	3.7.0	3.8.0	N3	GPRS
29.061	028	1	Rel-4	A	NP-010572	N3-010462	approved	Correction to Calling-station-id	4.2.0	4.3.0	N3	GPRS
29.061	029	1	R99	A	NP-010572	N3-010448	approved	Correction to 3GPP specific attribute: 3GPP-IMSI	3.7.0	3.8.0	N3	GPRS
29.061	030	1	Rel-4	A	NP-010572	N3-010447	approved	Correction to 3GPP specific attribute: 3GPP-IMSI	4.2.0	4.3.0	N3	GPRS
29.061	031		R99	A	NP-010572	N3-010439	approved	Correction to 3GPP specific attributes containing MCC-MNC IMSI	3.7.0	3.8.0	N3	GPRS
29.061	032		Rel-4	A	NP-010572	N3-010440	approved	Correction to 3GPP specific attributes containing MCC-MNC IMSI	4.2.0	4.3.0	N3	GPRS
29.061	033		R99	A	NP-010672	N3-010476	approved	Standard method for interworking between GPRS and external PDN using RADIUS	3.7.0	3.8.0	N3	GPRS
29.061	034		R99	A	NP-010672	N3-010472	approved	Standard method for updating information between GPRS and external PDN using RADIUS	3.7.0	3.8.0	N3	GPRS
29.061	035	2	Rel-5	D	NP-010604	N3-010598	approved	Terminology clarifications as requested by TSG GERAN	4.2.0	5.0.0	N3	TEI
29.078	202		R99	F	NP-010584	N2-010761	approved	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	3.9.0	3.10.0	N2	CAMEL3
29.078	203		Rel-4	A	NP-010584	N2-010762	approved	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	4.2.0	4.3.0	N2	CAMEL3
29.078	204	1	R99	F	NP-010584	N2-010813	approved	Correction of the MAXIMUM-FOR-SCI-BILLING-CHARGING value	3.9.0	3.10.0	N2	CAMEL3
29.078	205	1	Rel-4	A	NP-010584	N2-010814	approved	Correction of the MAXIMUM-FOR-SCI-BILLING-CHARGING value	4.2.0	4.3.0	N2	CAMEL3
29.078	206	2	R99	F	NP-010584	N2-010844	approved	Precision about default values for ServiceInteractionIndicatorsTwo parameters	3.9.0	3.10.0	N2	CAMEL3
29.078	207		R99	F	NP-010584	N2-010759	approved	Encoding of the InitialDPGPRS ChargingID parameter	3.9.0	3.10.0	N2	CAMEL3
29.078	208		Rel-4	A	NP-010584	N2-010760	approved	Encoding of the InitialDPGPRS ChargingID parameter	4.2.0	4.3.0	N2	CAMEL3
29.078	209	1	R99	F	NP-010584	N2-010826	approved	Introduction of SMS Reference Number	3.9.0	3.10.0	N2	CAMEL3
29.078	210		Rel-4	A	NP-010584	N2-010849	approved	Introduction of SMS Reference Number	4.2.0	4.3.0	N2	CAMEL3

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.078	211		Rel-4	A	NP-010584	N2-010854	approved	Precision about default values for ServiceInteractionIndicatorsTwo parameters	4.2.0	4.3.0	N2	CAMEL3
29.078	212		R99	F	NP-010589	N2-010892	approved	ApplyCharging shall be allowed in a control relationship only	3.9.0	3.10.0	N2	CAMEL3
29.078	213		R99	F	NP-010589	N2-010893	approved	Correction to IMPORT statements	3.9.0	3.10.0	N2	CAMEL3
29.078	214		R99	F	NP-010663	N2-010894	approved	Correction to reference for the encoding of Called Party Number	3.9.0	3.10.0	N2	CAMEL3
29.078	215	1	R99	F	NP-010589	N2-010994	approved	Correction to preconditions for ActivityTestGPRS	3.9.0	3.10.0	N2	CAMEL3
29.078	216	1	R99	F	NP-010589	N2-010982	approved	Correction to error handling description for Initial DP operations	3.9.0	3.10.0	N2	CAMEL3
29.078	217	1	R99	F	NP-010662	N2-010995	approved	Correction to references for the encoding of APN	3.9.0	3.10.0	N2	CAMEL3
29.078	218	1	R99	F	NP-010662	N2-010984	approved	The use of "White TCAP" shall be mandated for CAP	3.9.0	3.10.0	N2	CAMEL3
29.078	221		R99	F	NP-010664	N2-010970	approved	Correction to GPRS parameters encoding	3.9.0	3.10.0	N2	CAMEL3
29.078	222		Rel-4	A	NP-010589	N2-010981	approved	Correction to IMPORT statements	4.2.0	4.3.0	N2	CAMEL3
29.078	223		Rel-4	A	NP-010589	N2-010983	approved	Correction to error handling description for Initial DP operations	4.2.0	4.3.0	N2	CAMEL3
29.078	224		Rel-4	A	NP-010662	N2-010985	approved	The use of "White TCAP" shall be mandated for CAP	4.2.0	4.3.0	N2	CAMEL3
29.078	225		Rel-4	A	NP-010662	N2-010996	approved	Correction to references for the encoding of APN	4.2.0	4.3.0	N2	CAMEL3
29.078	226		Rel-4	A	NP-010589	N2-011007	approved	ApplyCharging shall be allowed in a control relationship only	4.2.0	4.3.0	N2	CAMEL3
29.078	227		Rel-4	A	NP-010663	N2-011008	approved	Correction to reference for the encoding of Called Party Number	4.2.0	4.3.0	N2	CAMEL3
29.078	227		R99	F	NP-010662	N2-011011	approved	Correction to precondition of ContinueWithArgument	3.9.0	3.10.0	N2	CAMEL3
29.078	228		Rel-4	A	NP-010589	N2-011025	approved	Correction to preconditions for ActivityTestGPRS	4.2.0	4.3.0	N2	CAMEL3
29.078	229		Rel-4	A	NP-010622	N2-011039	approved	Correction to precondition of ContinueWithArgument	4.2.0	4.3.0	N2	CAMEL3
29.078	230		Rel-4	A	NP-010664	N2-011045	approved	Correction to GPRS parameters encoding	4.2.0	4.3.0	N2	CAMEL3
29.198-01	003		Rel-4	F	NP-010594	N5-010561	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-01	004		Rel-4	F	NP-010594	N5-010702	approved	Remove the perception that the OSA API only uses CORBA for its transport mechanism	4.2.0	4.3.0	N5	OSA1
29.198-02	007		Rel-4	F	NP-010595	N5-010562	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-02	008		Rel-4	F	NP-010595	N5-011240	approved	Correction to Common Data (CD)	4.2.0	4.3.0	N5	OSA1
29.198-02	009		Rel-4	F	NP-010595	N5-011269	approved	Correction to values of TpAddressPlan	4.2.0	4.3.0	N5	OSA1
29.198-03	021		Rel-4	F	NP-010596	N5-010563	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-03	022		Rel-4	F	NP-010596	N5-011241	approved	Correction to Framework (FW)	4.2.0	4.3.0	N5	OSA1
29.198-04	019		Rel-4	F	NP-010597	N5-010564	approved	Replace Out Parameters with Return Types	4.1.0	4.2.0	N5	OSA1
29.198-04	020		Rel-4	F	NP-010597	N5-011136	approved	Removal of time based charging property	4.1.0	4.2.0	N5	OSA1
29.198-04	021		Rel-4	F	NP-010597	N5-011145	approved	Make attach Media() and detach Media() asynchronous	4.1.0	4.2.0	N5	OSA1
29.198-04	022		Rel-4	F	NP-010597	N5-011146	approved	Correction of treatment datatype in superviseReq on call leg	4.1.0	4.2.0	N5	OSA1
29.198-04	023		Rel-4	F	NP-010597	N5-011246	approved	Corrections to Call Control Data Types	4.1.0	4.2.0	N5	OSA1
29.198-04	024		Rel-4	F	NP-010597	N5-011250	approved	Correction to Call Control (CC)	4.1.0	4.2.0	N5	OSA1
29.198-04	025		Rel-4	F	NP-010597	N5-011258	approved	Amend the Generic Call Control introductory part	4.1.0	4.2.0	N5	OSA1
29.198-04	026		Rel-4	F	NP-010597	N5-011260	approved	Correction in TpCallEventType	4.1.0	4.2.0	N5	OSA1
29.198-04	027		Rel-4	F	NP-010597	N5-011262	approved	Addition of missing description of RouteErr()	4.1.0	4.2.0	N5	OSA1
29.198-04	028		Rel-4	F	NP-010597	N5-011268	approved	Misleading description of createAndRouteCallLegErr()	4.1.0	4.2.0	N5	OSA1
29.198-04	029		Rel-4	F	NP-010597	N5-011270	approved	Correction to values of TpCallNotificationType, TpCallLoadControlMechanismType	4.1.0	4.2.0	N5	OSA1
29.198-04	030		Rel-4	F	NP-010695	N5-011147	approved	Correction of method getLastRedirectionAddress	4.1.0	4.2.0	N5	OSA1
29.198-05	003		Rel-4	F	NP-010598	N5-010565	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-05	004		Rel-4	F	NP-010598	N5-011138	approved	Correction of description of sendInfoRes()	4.2.0	4.3.0	N5	OSA1
29.198-05	005		Rel-4	F	NP-010598	N5-011140	approved	Correction to handling of deassign on related object	4.2.0	4.3.0	N5	OSA1
29.198-05	006		Rel-4	F	NP-010598	N5-011243	approved	Correction to Exceptions Raised in UI	4.2.0	4.3.0	N5	OSA1
29.198-05	007		Rel-4	F	NP-010598	N5-011271	approved	Correction to values of TpUIInfoType	4.2.0	4.3.0	N5	OSA1
29.198-06	004		Rel-4	F	NP-010599	N5-010566	approved	Replace Out Parameters with Return Types	4.2.1	4.3.0	N5	OSA1
29.198-06	005		Rel-4	F	NP-010599	N5-011007	approved	Methods accepting an interface as a parameter need to be able to raise P_INVALID_INTERFACE_TYPE	4.2.1	4.3.0	N5	OSA1
29.198-06	006		Rel-4	F	NP-010599	N5-011251	approved	Correction of references to 3GPP specifications	4.2.1	4.3.0	N5	OSA1
29.198-06	007		Rel-4	F	NP-010599	N5-011272	approved	Correction to callback interface reference in method	4.2.1	4.3.0	N5	OSA1

Spec	CR	R.	Phase	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
								IpTriggeredUserLocation.triggeredLocationReportingStartReq				
29.198-07	003		Rel-4	F	NP-010600	N5-010567	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-08	003		Rel-4	F	NP-010601	N5-010568	approved	Replace Out Parameters with Return Types	4.2.0	4.3.0	N5	OSA1
29.198-08	004		Rel-4	F	NP-010601	N5-011244	approved	Corrections and alignment additions to the Data Session Control SCF	4.2.0	4.3.0	N5	OSA1
29.198-11	003		Rel-4	F	NP-010602	N5-010569	approved	Replace Out Parameters with Return Types	4.1.0	4.2.0	N5	OSA1
29.198-11	004		Rel-4	F	NP-010602	N5-010802	approved	Replace erroneous use of incorrect data type TpSessionID by TpAssignmentID in Account Management interface	4.1.0	4.2.0	N5	OSA1
29.198-12	009		Rel-4	F	NP-010603	N5-010570	approved	Replace Out Parameters with Return Types	4.1.0	4.2.0	N5	OSA1
29.232	011	1	Rel-4	F	NP-010619	N4-011184	approved	Inclusion of H.248 Annex L, 'Error Codes and Service Change Reasons'	4.2.0	4.3.0	N4	CSSPLIT
29.232	012		Rel-4	F	NP-010619	N4-011079	approved	Removal of Reuse Idle Package	4.2.0	4.3.0	N4	CSSPLIT
29.232	013	1	Rel-5	B	NP-010631	N4-011214	approved	Introduction of MGW Congestion Handling	4.2.0	5.0.0	N4	TEI5
29.232	014		Rel-4	F	NP-010619	N4-011083	approved	Correction of Release Procedures	4.2.0	4.3.0	N4	CSSPLIT
29.232	015		Rel-4	F	NP-010619	N4-011084	approved	Clarification Of Use Of 3GUP package For PCM	4.2.0	4.3.0	N4	CSSPLIT
29.232	016		Rel-4	F	NP-010619	N4-011278	approved	Corrections to ABNF coding of PackageIDs	4.2.0	4.3.0	N4	CSSPLIT
29.232	017		Rel-4	F	NP-010619	N4-011304	approved	Correction of BICC packages	4.2.0	4.3.0	N4	CSSPLIT
29.232	019	2	Rel-5	B	NP-010631	N4-011447	approved	Management locking of MG	4.2.0	5.0.0	N4	TEI5
29.232	020	1	Rel-4	F	NP-010619	N4-011363	approved	Correction of 3GUP package sub-list type	4.2.0	4.3.0	N4	CSSPLIT
29.414	004		Rel-4	F	NP-010573	N3-010424	approved	Correction of inconsistency regarding RTP clock frequency	4.2.0	4.3.0	N3	CSSPLIT
29.414	005	1	Rel-4	F	NP-010573	N3-010579	approved	Correction of scope clause	4.2.0	4.3.0	N3	CSSPLIT
29.415	002	1	Rel-4	F	NP-010573	N3-010580	approved	Correction of scope clause	4.1.0	4.2.0	N3	CSSPLIT
29.415	004	1	Rel-4	F	NP-010573	N3-010562	approved	Reference to Iu UP	4.1.0	4.1.0	N3	CSSPLIT
44.021	001	1	Rel-5	D	NP-010604	N3-010581	approved	Terminology clarifications as requested by TSG GERAN	4.0.0	5.0.0	N3	TEI
44.064	002	3	Rel-5	B	NP-010658	N1-012038	approved	Introduction of a new TOM protocol discriminator for RRLP	4.1.0	5.0.0	N1	LCS
44.064	004		Rel-4	A	NP-010648	N1-011849	approved	IOV reset Conditions	4.1.0	4.2.0	N1	GPRS
48.020	001	1	Rel-5	D	NP-010604	N3-010582	approved	Terminology clarifications as requested by TSG GERAN	4.0.0	5.0.0	N3	TEI

313 CRs approved at TSG#13.

ANNEX B Tdoc List with Status for CN#14

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-010542	2	AGENDA	Draft Agenda for CN#14 Meeting, Kyoto	MCC	APPROVED
NP-010543	2	DAD	Allocation of documents to Agenda Items (beginning day1)	Ian Park	NOTED
NP-010544	2	DAD	Allocation of documents to Agenda Items (end day1)	Ian Park	NOTED
NP-010545	2	DAD	Allocation of documents to Agenda Items (end day2)	Ian Park	NOTED
NP-010546	2	DAD	Allocation of documents to Agenda Items (end day3)	Ian Park	NOTED
NP-010547	4.1	REPORT	Draft Report from CN#13 Meeting, Beijing	MCC	APPROVED
NP-010548	12	WORK PLAN	Latest Version of 3GPP Work plan	MCC	NOTED
NP-010549	12	WORK PLAN	3GPP Work plan Slides Presentation	MCC	REVISED TO 0694
NP-010550	5.2	LS IN	WID: AMR-WB Speech Service – Core Network Aspects [R3-013037]	RAN3	NOTED
NP-010551	5.2	LS IN	Introduction of a new release marker in the MS Classmark 3 and MS Radio Access Capability Ies	GERAN2	NOTED
NP-010552	5.2	LS IN	Re. LS on the WID AMR-WB Speech Service – Core Network Aspects [S2-013073]	SA2	NOTED
NP-010553	5.2	LS IN	LS on Focus of TR 22.941	SA1	NOTED
NP-010554	5.2	LS IN	Introduction of GERAN feature indicator	GERAN	NOTED
NP-010555	4.2	PRESENTATION	3G Naming an operator position	GSM Assoc.	NOTED
NP-010556	5.2	LS IN	UE Functionality Split Relating to the IMS [T2-011170]	T2	NOTED
NP-010557	5.2	LS IN	Protocol Specification of the Ze-interface [S3-010692]	S3	NOTED
NP-010558	4.5	REPORT	Draft Minutes ad-hoc RAN(3)&CN(4) on M3UA / SUA for Rel5	Ad Hoc Chair	NOTED
NP-010559	9.1	LIST	CN1 IMS open item list	CN1 chairman	NOTED
NP-010560	6.3.1	REPORT	Status Report for TSG CN WG3	CN3 Chair	NOTED
NP-010561	6.3.1	REPORT	CN3#19 Meeting Report (Brighton)	MCC	NOTED
NP-010562	6.3.1	REPORT	CN3#20 Meeting Report (Mexico)	MCC	NOTED
NP-010563	6.3.1	LS PACK	All LSs sent from CN3 since TSG CN#13 Meeting	MCC	NOTED
NP-010564	9.1	TS	TS 29.162 Interworking between the IM CN subsystem and IP networks	CN3	WITHDRAWN
NP-010565	9.1	TS	TS 29.163 Interworking between the IM CN subsystem and CS networks	CN3	NOTED
NP-010566	9.8	TS	TS 29.207 Policy control over Go interface	CN3	WITHDRAWN
NP-010567	9.8	TS	TS 29.208 End to End QoS signalling flows	CN3	WITHDRAWN
NP-010568	9.1	WID	Interworking between IM CN subsystem and IP networks	CN3	APPROVED
NP-010569	9.1	WID	Interworking between IM Subsystems and CS networks	CN3	APPROVED
NP-010570	9.13	WID	Service Change and UDI Fallback	CN3	APPROVED
NP-010571	7.20	CR PACK	CRs on Circuit Switched Bearers in UMTS	CN3	APPROVED
NP-010572	7.12	CR PACK	CR Pack 1 on GPRS	CN3	APPROVED
NP-010573	8.3	CR PACK	CRs on Bearer independent circuit switched Core Network	CN3	APPROVED
NP-010574	8.13	CR PACK	CRs on Circuit Switched Bearers in UMTS	CN3	APPROVED
NP-010575	6.2.1	REPORT	Status Report for TSG CN WG2	CN2 Chair	NOTED
NP-010576	6.2.1	REPORT	CN2#20 Meeting Report (Brighton)	MCC	NOTED
NP-010577	6.2.1	REPORT	CN2#21 Meeting Report (Mexico)	MCC	NOTED
NP-010578	6.2.1	REPORT	CAMEL4 AdHoc Meeting Report	MCC	NOTED
NP-010579	6.2.1	LS PACK	All LSs sent from CN2 since TSG CN#13 Meeting	CN2	NOTED
NP-010580	7.1	CR PACK 1	CR to R98, WI CAMEL2, Pack 1	CN2	APPROVED
NP-010581	7.1	CR PACK 2	CRs to R97 and R98, WI CAMEL2, Pack 2	CN2	APPROVED
NP-010582	7.2	CR PACK 3	CRs to R99 and Rel-4 WI CAMEL3, Pack 3	CN2	APPROVED
NP-010583	7.2	CR PACK 4	CRs to R99 and Rel-4 WI CAMEL3, Pack 4	CN2	APPROVED
NP-010584	7.2	CR PACK 5	CRs to R99 and Rel-4 WI CAMEL3, Pack 5	CN2	APPROVED
NP-010585	9.5	TS	Draft TS 23.078 v 5d.C.0	Rapporteur	WITHDRAWN
NP-010586	9.5	TS	Draft TS 23.278 v 1.1.0	Rapporteur	NOTED
NP-010587	7.2	CR PACK 6	CRs to R99 and Rel-4 WI CAMEL3, Pack 6	CN2	APPROVED
NP-010588	7.2	CR PACK 7	CRs to R99 and Rel-4 WI CAMEL3, Pack 7	CN2	APPROVED
NP-010589	7.2	CR PACK 8	CRs to R99 and Rel-4 WI CAMEL3, Pack 8	CN2	APPROVED
NP-010590	6.5.1	REPORT	Chairman's report from CN5 (slide presentation)	CN5 Chair	NOTED
NP-010591	6.5.1	LS PACK	All LSs sent from CN5 since TSG CN#13 Meeting	CN5	NOTED
NP-010592	6.5.1	REPORT	Report of CN5#14, Brighton, UK, 16 - 19 Oct 2001	CN5	NOTED
NP-010593	6.5.1	REPORT	Draft Report of CN5#15, Cancun, MEXICO, 26 - 20 Nov 2001	CN5 Chair	NOTED
NP-010594	8.5	CR	Rel-4 CRs 29.198-01	CN5	APPROVED
NP-010595	8.5	CR	Rel-4 CRs 29.198-02	CN5	APPROVED
NP-010596	8.5	CR	Rel-4 CRs 29.198-03	CN5	APPROVED
NP-010597	8.5	CR	Rel-4 CRs 29.198-04	CN5	APPROVED
NP-010598	8.5	CR	Rel-4 CRs 29.198-05	CN5	APPROVED
NP-010599	8.5	CR	Rel-4 CRs 29.198-06	CN5	APPROVED
NP-010600	8.5	CR	Rel-4 CRs 29.198-07	CN5	APPROVED
NP-010601	8.5	CR	Rel-4 CRs 29.198-08	CN5	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-010602	8.5	CR	Rel-4 CRs 29.198-11	CN5	APPROVED
NP-010603	8.5	CR	Rel-4 CRs 29.198-12	CN5	APPROVED
NP-010604	9.13	CR PACK	CRs on TEI_5	CN3	APPROVED
NP-010605	6.4.1	REPORT	Status report from CN4	CN4 Chairman	NOTED
NP-010606	6.4.1	REPORT	CN4 meeting reports after CN#13	CN4	NOTED
NP-010607	6.4.1	LS PACK	CN4 Output LSs after CN#13	CN4	NOTED
NP-010608	6.4.2	DISCUSSION DOC	SUA questions for advice	CN4 Chairman	NOTED
NP-010609	7.2	CR PACK	Camel 3	CN4	APPROVED
NP-010610	7.13	CR PACK	GTP Enhancement	CN4	APPROVED
NP-010611	7.14	CR PACK	Handover	CN4	APPROVED
NP-010612	7.15	CR PACK	GSM-UMTS interworking	CN4	APPROVED
NP-010613	7.16	CR PACK	Location Service Enhancements	CN4	APPROVED
NP-010614	7.16	CR PACK	Location Service Enhancements	CN4	APPROVED
NP-010615	7.18	CR PACK	Multicall	CN4	APPROVED
NP-010616	7.22	CR PACK	TEI	CN4	APPROVED
NP-010617	7.23	CR PACK	Super Charger CRs against 3GPP TS 23.116	CN4	APPROVED
NP-010618	7.23	CR PACK	Super Charger CRs against 3GPP TR 23.912	CN4	WITHDRAWN
NP-010619	8.3	CR PACK	Bearer Independent CS architecture	CN4	APPROVED
NP-010620	8.6	CR PACK	Transcoder Free Operation	CN4	APPROVED
NP-010621	8.8	CR PACK	Location Service Enhancements	CN4	APPROVED
NP-010622	8.10	CR PACK	Security Enhancements	CN4	APPROVED
NP-010623	8.12	CR PACK	TEI_4	CN4	APPROVED
NP-010624	8.13	CR PACK	GTP Enhancement	CN4	WITHDRAWN
NP-010625	8.13	CR PACK	Handover	CN4	WITHDRAWN
NP-010626	9.1	WID	IP Multimedia CN Subsystem, CSCF-HSS (Cx) interface	CN4	APPROVED
NP-010627	9.1	TS	TS 29.228 IP Multimedia Subsystem Cx interface; signalling flows and message contents	CN4	NOTED
NP-010628	9.1	TS	TS 29.229 Cx Interface based on the Diameter protocol; Protocol details	CN4	NOTED
NP-010629	9.7	CR PACK	Location Service Enhancements	CN4	WITHDRAWN
NP-010630	9.10	CR PACK	Intra Domain Connection of RAN Nodes to multiple CN nodes	CN4	APPROVED
NP-010631	9.13	CR PACK	TEI_5	CN4	APPROVED
NP-010632	9.13	CR PACK	Bearer Independent CS architecture	CN4	WITHDRAWN
NP-010633	9.13	TR	SUA Feasibility Study	CN4	APPROVED
NP-010634	6.1.1	REPORT	Status Report for TSG CN WG1	CN1 Chair	NOTED
NP-010635	6.1.1	REPORT	CN1#19bis Meeting Report	CN1 Chair	NOTED
NP-010636	6.1.1	REPORT	CN1#20 Meeting Report	MCC	NOTED
NP-010637	6.1.1	REPORT	CN1#20bis Meeting Report	CN1 Chair	NOTED
NP-010638	6.1.1	REPORT	CN1#21 Meeting Report	MCC	NOTED
NP-010639	6.1.1	LS PACK	All LSs sent from CN1 since TSG CN#13 Meeting	MCC	NOTED
NP-010640	11	TS	3GPP TS 23.218 v100 for information	CN1	NOTED
NP-010641	11	TS	3GPP TS 24.228 v180 for information	CN1	NOTED
NP-010642	11	TS	3GPP TS 24.229 v100 for information	CN1	NOTED
NP-010643	9.1	WID	SIP call control protocol for the IM CN subsystem	CN1	NOTED
NP-010644	9.10	WID	Intra Domain Connection of RAN Nodes to Multiple CN Nodes	CN1	REVISED TO 0693
NP-010645	9.11	WID	Presence	CN1	APPROVED
NP-010646	7.12	CR PACK	CRs to R97 (with mirror CRs) on Work Item GPRS towards 09.18	CN1	APPROVED
NP-010647	7.12	CR PACK	CRs to R97 and R99 (with mirror CRs) on Work Item GPRS towards 04.08 and 24.008	CN1	APPROVED
NP-010648	7.12	CR PACK	CRs to R97 and R99 (with mirror CRs) on Work Item GPRS towards 04.64 and 24.008	CN1	APPROVED
NP-010649	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 and 24.007	CN1	SPLIT INTO 0677 & 0678
NP-010650	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008	CN1	SPLIT INTO 0677 & 0678
NP-010651	7.18	CR PACK	CR to R99 (with mirror CR) on Work Item Multicall towards 23.009	CN1	APPROVED
NP-010652	7.19	CR PACK	CR to R99 (with mirror CRs) on Work Item QoS enhancements towards 24.008	CN1	APPROVED
NP-010653	7.22	CR PACK	CR to R99 (with mirror CR) on Work Item TEI towards 29.018	CN1	APPROVED
NP-010654	8.7	CR PACK	CR to Rel-4 (with mirror CR) on Work Item TFO-AMR towards 24.008	CN1	APPROVED
NP-010655	8.8	CR PACK	CR to Rel-4 (with mirror CR) on Work Item LCS1-PS towards 24.008	CN1	APPROVED
NP-010656	8.12	CR PACK	CR to Rel-4 on Work Item TEI4 towards 24.008	CN1	APPROVED
NP-010657	9.6	CR PACK	CR to Rel-5 on Work Item AMRWB towards 24.008	CN1	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-010658	9.7	CR PACK	CRs to Rel-5 on Work Item LCS enhancements towards 24.008 and 44.064	CN1	APPROVED
NP-010659	9.10	CR PACK	CRs to Rel-5 on Work Item MULCN towards 23.009, 24.008 and 29.018	CN1	APPROVED
NP-010660	9.13	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 24.008	CN1	APPROVED
NP-010661	9.13	CR PACK	CR to Rel-5 on Work Item Alignment of 3G functional split and Iu towards 23.009	CN1	APPROVED
NP-010662	7.2	CR PACK 9	CRs to R99 and Rel-4 WI CAMEL3, Pack 8	CN2	APPROVED
NP-010663	7.2	CR PACK 10	CRs to R99 and Rel-4 WI CAMEL3, Pack 8	CN2	APPROVED
NP-010664	7.2	CR PACK 11	CRs to R99 and Rel-4 WI CAMEL3, Pack 8	CN2	APPROVED
NP-010665	8.12	CR	CR to 24.008 on references	Rapporteur	APPROVED
NP-010666	11	CR	CR to 21.101: "Correction to list of specs"	JMM, MCC	WITHDRAWN
NP-010667	11	CR	CR to 21.102: "Correction to list of specs"	JMM, MCC	NOTED
NP-010668	11	CR	CR to 01.01: "GSM Release 1999 specifications.	JMM, MCC	NOTED
NP-010669	11	CR	CR to 41.102: "GSM Release 4 Specifications"	JMM, MCC	NOTED
NP-010670	11	LIST	Specs status list prior to TSGs#14	JMM, MCC	NOTED
NP-010671	9.4	WID	Revised Work Item Description OSA Stage 3 Rel5; approved at CN#13 as NP-010535	CN5	REVISED TO 0687
NP-010672	7.12	CR PACK	CR Pack 2 on GPRS	CN3	APPROVED
NP-010673	7.2	CR PACK	Camel 3	CN4	APPROVED
NP-010674	7.22	CR PACK	TEI (pack#2)	CN4	WITHDRAWN
NP-010675	8.3	CR PACK	Bearer Independent CS architecture (pack#2)	CN4	WITHDRAWN
NP-010676	8.12	CR PACK	TEI_4 (pack#2)	CN4	WITHDRAWN
NP-010677	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 - PACK1	CN1	REVISED TO 0689
NP-010678	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 - PACK2	CN1	APPROVED
NP-010679	8.12	CR PACK	CRs to 24.008 (from GERAN) Introduction of GERAN feature indicator	GERAN	REVISED TO 0690
NP-010680	5.2	LS OUT	LS to SA3, on ZE interface	CN	REVISED TO 0685
NP-010681	4.3	LIST	IETF dependancy table	CN Chair	NOTED
NP-010682	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 and 24.007	CN1	APPROVED
NP-010683	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 (updated SDLs)	CN1	REVISED TO 0691
NP-010684	6.2.1	LS OUT	LS to SA1 on deletion of requirements	CN	REVISED TO 0686
NP-010685	5.2	LS OUT	Protocol Specification of the Ze-interface	CN	APPROVED
NP-010686	6.2.1	LS OUT	LS to SA1 on deletion of requirements	CN	REVISED TO 0688
NP-010687	9.4	WID	Revised Work Item Description OSA Stage 3 Rel5; approved at CN#13 as NP-010535	CN5	REVISED TO 0692
NP-010688	6.2.1	LS OUT	removal of the non-progressed Rel-5/CAMEL4 functionalities	CN	APPROVED
NP-010689	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 - PACK1	CN1	REVISED TO 0700
NP-010690	8.12	CR PACK	CRs to 24.008 (from GERAN) Introduction of GERAN feature indicator	GERAN	APPROVED
NP-010691	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009 (updated SDLs)	CN1	APPROVED
NP-010692	9.4	WID	Revised Work Item Description OSA Stage 3	CN5	APPROVED
NP-010693	9.10	WID	Intra Domain Connection of RAN Nodes to Multiple CN Nodes	CN1	APPROVED
NP-010694	12	WORK PLAN	3GPP Work plan Slides Presentation	MCC	NOTED
NP-010695	8.5	CR PACK	Additional Rel-4 CRs 29.198-04 (N5-011147)	CN5	APPROVED
NP-010696	7.13	CR	Clarification on the handling of protocol configuration options IE	lucent	APPROVED
NP-010697	5.2	DISCUSSION DOC	UE Split	Nortel	NOTED
NP-010698	5.2	LS IN	Lawful Intercept (LI) stage 1 requirements	SA3 Li	NOTED
NP-010699	6.4.2	DISCUSSION DOC	M3UA - SUA resolution. [RP-001630]	RAN various	NOTED
NP-010700	7.15	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008 - PACK1	CN1	APPROVED
NP-010701	14	TS	IP Based Multimedia Services Framework Report TR 22.941	SA2	NOTED
NP-010702			Res'd DAB		
NP-010703			Res'd DAB		
NP-010704			Res'd DAB		
NP-010705			Res'd DAB		
NP-010706	5.2	LS IN	LS on IMS identifiers and ISIM and USIM [S2-013599]	SA2	NOTED
NP-010707	14	DISCUSSION DOC	Proposed Scope of All IP Workshop between 3GPP and 3GPP2	NTT DoCoMo	NOTED
NP-010708	14	DISCUSSION DOC	PCG Respo. To OHG on Core Network Harmonization	CN Chair	NOTED
NP-010709	14	DISCUSSION DOC	IP Core Network Harmonization	OHG	NOTED
NP-010710	5.2	LS IN	Re. LS to CN from SA3 Li Wideband AMR	SA3 Li	NOTED
NP-010711	14	DISCUSSION DOC	Smooth Introduction of Release 99	Various	NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-010712	14	DISCUSSION DOC	Principles for UE testing and related indication from UE	Various	NOTED
NP-010713	14	DISCUSSION DOC	Errors discovered in the R99	Various	NOTED

ANNEX C. TSG CN meeting #14 Participants List

To be provided.

History

<table>
<tr><td colspan="2" align="center">Document History</td></tr>
<tr><td>December 2001</td><td>DRAFT v0.3.0 Presented to TSG-SA#14 (SP-010737)</td></tr>
<tr><td>1st December 2001</td><td>DRAFT v1.0.0 send to TSG_CN Officials for comments</td></tr>
<tr><td></td><td>DRAFT v1.1.0 dispatched to the TSG-CN mail exploder for comments.

Comments to be addressed to:

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

E-mail comments back by</td></tr>
<tr><td></td><td>Final v2.0.0 approved at TSG#15 Meeting in Korea – Made version 3.0.0 and placed to server as the official meeting report.</td></tr>
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