



Third Generation Partnership Project

DRAFT MEETING REPORT v2.0.0

3GPP TSG-CN#19

Birmingham, U.K.
12th - 14^h March, 2003

Hosted by:



CN Officials:

Chairman: Stephen Hayes, Ericsson Inc. Stephen.hayes@ericsson.com
Vice-Chairman: Ian Park, Vodafone. ian.park@vf.vodafone.co.uk
Vice-Chairman: Kunihiro Taya, NEC taya@bk.jp.nec.com
MCC Support: David Boswarthick, ETSI MCC. david.boswarthick@etsi.org

Table of contents

CN Chairman's Executive Summary.....	5
1 Opening, of the meeting.....	5
2 Approval of the agenda.....	5
3 IPR declarations	6
4 Meeting Reports	6
4.1 Report from CN#18 meeting.....	6
4.2 Reports from other groups.....	6
4.3 IETF coordination report.....	6
4.4 CN Chairman's report.....	7
5 Incoming liaisons	8
5.1 From TSG-CN working groups	8
5.2 From other 3GPP groups.....	8
5.3 From other groups.....	10
6 Reports from TSG-CN working groups (& CN Ad Hocs).....	11
6.1 Reporting from TSG-CN WG1	11
6.1.1 Status report from CN1	11
6.1.2 Questions for advice and decisions from CN1	11
6.2 Reporting from TSG-CN WG2.....	11
6.2.1 Status report from CN2	11
6.2.2 Questions for advice and decisions from CN2.....	11
6.3 Reporting from TSG-CN WG3.....	11
6.3.1 Status report from CN3	11
6.3.2 Questions for advice and decisions from CN3.....	12
6.4 Reporting from TSG-CN WG4.....	12
6.4.1 Status report from CN4	12
6.4.2 Questions for advice and decisions from CN4.....	12
6.5 Reporting from TSG-CN WG5.....	13
6.5.1 Status report from CN5	13
6.5.2 Questions for advice and decisions from CN5.....	13
6.6 Status ITU-T ad hoc group	13
7 Release 4 & earlier: Approval of contributions (by Work Item).....	14
7.1 CAMEL Phase 2 and Phase 3.....	14
7.2 Security	14
7.3 GPRS 14	
7.4 Location service enhancement [LCS1].....	14
7.5 Handover.....	14
7.6 Location service enhancement [LCS1].....	14

7.7	Transcoder Free Operation [TrFO].....	14
7.8	Enable bearer independent CS architecture [CSSPLIT]	15
7.9	Multicall	15
7.10	OSA Enhancements [OSA1].....	15
7.11	Small Technical Enhancements & Improvements [TEI]	15
7.12	Any Other pre-Release 5 WI.....	16
8	Release 5:.....	19
8.1	Provisioning of IP-based multimedia services [IMS]	19
8.2	OSA enhancements [OSA2].....	20
8.3	CAMEL Phase 4 [CAMEL4].....	21
8.4	Location Service Enhancements [LCS1].....	21
8.5	End to End QoS [E2EQoS].....	21
8.6	Security enhancements [SEC1].....	22
8.7	Service Change and UDI Fallback [SCUDIF]	22
8.8	Technical Enhancements and Improvements [TEI5]	22
8.9	Any other Rel-5 WI.....	23
9	Release 6	24
9.1	IMS Phase 2 [IMS]	24
9.2	Support of Presence Capability [PRESNC]	24
9.3	Security Enhancements[SEC1]	24
9.4	Emergency Call Enhancements [EMC1]	24
9.5	Speech Recognition and Speech Enabled Services[SRSES].....	25
9.6	Generic User Profile [GUP]	25
9.7	OSA Enhancements [OSA3].....	25
9.8	Multimedia Broadcast and Multicast Service [MBMS]	25
9.9	Preferred Framing Protocol [PFP].....	25
9.10	Small Technical Enhancements and Improvements [TEI6].....	25
9.11	Any otherRel-6 WI.....	26
10	TSG CN work organization.....	28
10.1	Principles for work organization within CN.....	28
10.2	Terms of Reference.....	28
10.3	Support Arrangements.....	28
10.4	Working methods / Work Style	28
10.5	Future Meeting Schedule.....	29
11	Specifications in TSG-CN domain.....	30
12	Review of 3GPP Work Plan	30
13	Postponed issues from earlier in the meeting.....	30
14	Election of TSG CN Officials	30
15	Any other business	30

16	Close of Meeting	30
	ANNEX A:OUTPUT MATERIAL	31
A.1	Liaisons Approved.....	31
A.2	New TSs /TRs Approved (to be placed under change control).....	31
A.3	New / Revised Work Items Approved.....	31
A.4	Status of CRs following TSG CN Plenary meeting	32
	ANNEX B Tdoc List with Status.....	40
	ANNEX C. TSG CN meeting Participants List.....	48
History	50	

CN Chairman's Executive Summary

A major topic of discussion was how to handle implementation errors in pre-Rel 99 core networks. Although clarifications to the specifications have been made and fixes exist for the network, delays in rolling out these fixes could lead to significant problems when roaming. For this reason, workarounds in the UE were considered. Ultimately it was decided that it was preferable to document these as CRs against the existing specifications instead of as a TR. These CRs are covered under our current procedures, but must meet the guidelines established for permissible changes to frozen releases. In addition a liaison was sent to GSMA TWG urging operators to deploy the network fixes and requesting information on the gravity and timeline of the problems (NP-030146).

Continued progress has been made on stabilizing IMS for Release 5.

Rel 5 CRs were conditionally approved for the SIM-IMS issue (NP-030053). These were conditionally approved pending the outcome of the SA decisions on this functionality. There may still be CN4 CRs needed for this functionality.

The 24.008 CR for the indicator for the Signalling PDP context was approved, however the 24.229 CR was sent back to CN1 awaiting further clarification on its usage from SA2 (NP-030054)

The CN3/CN4 proposal to use a 2 step HLR interrogation procedure for SCUDIF was challenged on the basis of signalling load and interaction with CAMEL (NP-030078, NP-030106, NP-030131). The CRs were sent back to CN3 and CN4 for further evaluation, in discussion with CN2.

CN responded to the ITU-T SSG request for Rel 5 Core network specs in NP-030150. This will be sent to the SDOs as the basis for their response to the request for input to Q.1741.3

The work on SS barring of SMS transfer over GRPS was completed (Rel 6).

The following new WIDs were approved:

- Enhanced Dialed Services (NP-030153)
- WLAN interworking stage 3 (NP-030116)

The following WIDs were revised

- Emergency calls over IMS – aligned with SA2 WID and completing at CN#22 (NP-030149)
- Mn (MGCF to IMS-MSG) – completion slipped until CN#22 (NP-030115)
- MBMS – completion slipped until CN#22 (NP-030151)
- OSA Rel 6 – aligned with SA1 WID (NP-030036)

The following WIDs were deleted due to lack of interest

- Preferred Framing Protocol
- Ze Stage 3

SA3 was informed of the intention to delete the Ze work item and also “Enhanced HE control of security” via a liaison (NP-030139). In addition, SA1 was informed by CN5 that several of the OSA work tasks are in danger of being deleted if no activity occurs by the CN#20.

1 Opening, of the meeting

Mr. Ian Park of Vodafone welcomed the delegates to Birmingham 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. Kunihiro Taya (Vice-Chair, NEC), and Mr. David Boswarthick (CN Secretary, MCC).

2 Approval of the agenda

NP-030001 Draft agenda for CN #19 meeting. MCC. **APPROVED.**

NP-030002 Allocation of documents to agenda items (start of day 1). Source: CN vice-chairman. **NOTED.**

NP-030003 Allocation of documents to agenda items (end of day 1). Source: CN vice-chairman. **NOTED.**

NP-030004 Allocation of documents to agenda items (end of day 2). Source: 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#18 meeting

NP-030007 Draft report from CN #18 meeting. Source: MCC

Status: **APPROVED.**

4.2 Reports from other groups

No input

4.3 IETF coordination report

NP-030129 IETF coordination report. Source: CN Chair.

Content: Contains the CN chairman's status report on progress of IETF work.

1. *Executive Summary*

Successful Rel 6 workshop held between 3GPP/IETF (See workshop report).

Two SIP drafts still not completed (svcrtdisc, 3pcc). 12 drafts approved but still awaiting publication. IETF to continue to try and expedite all outstanding 3GPP Rel 5 dependencies.

Diameter base completed but not yet published. Credit-control and multimedia-app approved as AAA WG items.

2. *Statistics*

Drafts being tracked:

Release 4: 2

Release 5: 45

Release 6: 20

Drafts not yet approved by IESG (technical stability)

Release 4: 0

Release 5: 2

Release 6: 20

Drafts not yet published as RFCs (formally available)

Release 4: 0

Release 5: 14

Release 6: 20

Drafts approved by IESG since TSG#18: 7

Drafts published as RFCs since TSG#18: 16

3. *Significant Developments*

3GPP/IETF Workshop held. Next steps established on areas of:

- *Network vs. user control*
- *Security*
- *Presence*
- *WLAN*

IETF will continue to expedite dangling dependencies. Priority will be given to those that have been allocated RFC numbers, but are not yet published.

DIAMETER base approved by IESG. Dependency on NASREQ removed. Credit-control and mm-app drafts finally chartered as AAA WG items.

No significant update to Rel-6 dependencies. 3GPP needs to clarify it's Rel-6 dependencies ASAP.

Status: **NOTED.**

NP-030147 **3GPP/IETF Release 6 Workshop Major Conclusions. Source: CN Chair.**

Status: **NOTED.**

NP-030135 **3GPP/IETF Release 6 Workshop Notes. Source: CN Chair.**

Status: **NOTED.**

4.4 CN Chairman's report

No input.

5 Incoming liaisons

5.1 From TSG-CN working groups

LSs moved to other agenda items:

NP-030014 moved to 7.12

NP-030124 moved to 9.12

NP-030117 moved to 9.4

NP-030069 LS on MS RAC for UMTS only mobiles source CN1

Content: CN1 have agreed the attached CRs to add the missing definition of MS RAC encoding for R99 UE which does not support any GSM band. Since it is a late change of R99 UE requirements, it was checked that these changes are in alignment with the known already existing implementations.

Additionally to the encoding issue, the recommendation for the UE to indicate the support of only one of the upper GSM bands (1800 / 1900) at a time has been removed. This limitation has become redundant since the introduction of the BAND INDICATOR both in GERAN and RAN.

GERAN2 are asked to review and endorse the CRs, and if they do not agree the CRs they should contact CN#19 directly with a late LS to this meeting [NP-030141].

Status: **NOTED.**

5.2 From other 3GPP groups

LSs moved to other agenda items:

NP-030119 moved to 9.9

NP-030122 moved to 9.4

NP-030010 Liaison statement on comments to DTR/MTS 0082, source TSG SA

Content: The 3GPP TSGs have discussed the scope of the DTR attached to the liaison. A general concern was raised that ETSI TC MTS is performing work that falls within the scope of 3GPP. If specifications for UMTS network integration testing are considered necessary, interested parties are kindly encouraged to submit contributions to the relevant 3GPP working groups and participate accordingly. Members of ETSI TC MTS are kindly invited to note the ongoing work in 3GPP TSG T WG1 on UE conformance testing.

Further, a brief review of the DTR attached to the liaison revealed that the versions of the referenced 3GPP technical specifications are out of date as they refer to versions approved in March 2001. 3GPP has since then extensively modified the referenced technical specifications.

Status: **NOTED.**

NP-030011 Response to IETF Concerns on SIP and IMS Interoperability, source TSG SA

Content: Final liaison on the 3GPP - IETF interworking issue. This is the response that TSG SA sent to the IETF.

Status: **NOTED.**

NP-030012 Additional Release 5 work needed for Policy Control and Subscription Control of Media, source TSG SA

Content: This liaison requests that the addressed working groups investigate the issues and provide appropriate Release 5 CRs to the CN#19 and SA#19 meetings.

Comments: This LS has been seen by the relevant working groups and it is expected that the working groups will progress work accordingly

Status: **NOTED.**

NP-030013 LS on control of SS barring for SMS transfer over GPRS, source SA1

Content: In the LS SA1 CONFIRMED to CN WG1 and CN WG4 that it is acceptable to specify the invocation of SS barring of SMS transfer (both MO and MT) in the PS domain as part of UMTS Release 6.

SA WG1 CONFIRMED to CN WG1 and CN WG4 that it is acceptable not to pursue the specification of control of SS using the SGSN as a relay between the UE and the HLR.

Status: **NOTED.**

NP-030120 Re. LS on SS barring for SMS transfer over GPRS, source SA2

Content: According to SA1's requirements (S1-030241), SA2 have approved the CR to TS23.060 for SS barring for SMS transfer over GPRS (S2-030415rev2).

Status: **NOTED.**

NP-030121 LS on Clarification of Scenario 2 and Scenario 3 architectural characteristics and stable and non-stable parts of TS 23.234 SA2 To; source: Nokia

Content: SA2 would like to clarify what are the stable and non-stable parts in the currently defined architecture (Stage 2 work) for WLAN-3GPP IW in TS 23.234.

Furthermore, the Scenario 2 and Scenario 3 architectural characteristics are also clarified. The target is to ensure that other WGs that have initiated WLAN-3GPP IW work, have a clear understanding of the architecture situation, to proceed with their work.

Comments: This LS is not expected to have an impact on the stage 3 WLAN WID presented to this meeting.

Status: **NOTED.**

NP-030125 LS on Radio Access Bearer for PS conversational testing, source SA4

Content: SA4 have agreed to carry out conversational tests in order to characterize the AMR and AMR WB used in PS voice service. To progress a conversation test methodology has been proposed, but still some test parameters (delay, packet loss, radio condition) are unsure.

SA4 kindly asks the groups (RAN and CN) to answer the following questions:

- ?? Is this example RAB the only one available for that type of service?
- ?? If the previous statement is not right, could you provide us with the right and most suitable RAB parameters knowing the service we want to set (as described in the overall description)?
- ?? Are the 100 ms transfer delay defined in the QoS (26.236 Use case 1) feasible on an UTRAN bearer (between the GGSN and the terminal)?
- ?? Is it the understanding of RAN that the end to end delay is the sum of the 2 transfer delays plus the CN delay? Are there more delays to be taken into account?

Comments: CN need to provide answers on the delay of user plane packet transfer.

Suggested that it also relates to 23.107 hence under the domain of SA2.

Falls under the remit of CN1, CN4 and CN3. They are asked to characterise a "delay range" that they believe is reasonable and detail some of the characteristics that relate to that delay range.

Lucent felt that it would be better to have a coordinated response as opposed to three potentially different responses from the 3 groups. It was decided that a joint session was not the best way, but it is hoped that there will be some harmonisation of responses by the companies attending the different working group meetings.

Status: **Forwarded to CN1, CN4 and CN3 for treatment.**

NP-030126 Re. LS on the "Additional Release 5 work needed for Policy Control and Subscription Control of Media", source SA3

Content: The following is SA3 opinion on the issues identified by the LS:

The use of 488 message may be seen to open a door for denial of service attacks because a malicious UE is able to initiate INVITE and/or re-INVITE messages with media descriptions that are known to be rejected by a CSCF. In this way, the assumed attacker would be able to cause some additional load to the network, and create state in the CSCFs. However, this issue should rather be seen as a feature of SIP as a protocol. There are other similar features in SIP. For example, SIP UA is able to send OPTION method to any CSCF in the IMS network, and cause similar load. Furthermore, 488 is an error message that does not require the CSCF to keep any state after the response message has been sent.

Because the 488 response message includes policy information of the entity that rejected the message, the mechanism can be used to acquire information about the operator local policies. However, this cannot be avoided because the UAC needs this information to generate a new media description. SA3 is not aware of any mechanism that could be used to avoid revealing the policy descriptions to the UAC.

SA3 would also like to point out that the real source of the 488 response is not necessarily revealed to the UAC because the same error message can be used between the UE and various CSCFs, and

between two UEs. The UAC (or the adjacent CSCFs) may not know which entity is responsible for the response. However, this is a question related to the SIP as a protocol rather than to the security of the system.

SA3 is not currently planning to introduce new security requirements related to the above issue.

Comments: Has also been sent to CN1, but due to meeting dates, they have yet to see it.

Status: **NOTED.**

NP-030123 LS on Protocols over the Mt interface, source SA2

Content: SA WG2 has agreed to introduce a new reference point (Mt) between the UE and the Application Server to allow the user to configure service related data. The corresponding CR on 23.002 approved by SA2 is attached for information (S2-030915).

The initial motivation for the Mt reference point was to allow the user e.g. control presence lists, presence authorisation policies, chat rooms (participation policies and other parameters) and conferences (create and delete conferences, and manipulate parameters related to them). However, the usage of the reference point is not restricted to the above-mentioned examples.

During the discussions SA2 had on the level and nature of standardization foreseen for the Mt interface, two views were brought up: Mt only as a HTTP interface for secure Web based management, or Mt to include HTTP Web based management and IETF Data Manipulation and Conference Policy Control Protocols.

Comments: This interface falls under the remit of CN1. CN1 will examine the need for a WID for this interface as required. CN1 may proceed with the technical work without an approved WID.

Status: **NOTED.**

NP-030140 LS on early UE handling, source SA2

Content: In this LS, SA2 kindly request TSG-RAN to make a decision between "bitmap" and IMEISV during their March 2003 TSG meeting.

Comments: This topic will be discussed in RAN#19 meeting

Status: **NOTED.**

NP-030141 Reply to LS on MS RAC for UMTS only mobiles, source GERAN2

Content: GERAN2 has reviewed the CN1 CRs. GERAN 2 noticed that the proposed CRs deal with two separate issues:

1. Definition of MS RAC encoding for R99 UEs which do not support any GSM band.
2. Removal of the restriction for multiband mobile stations to send information about only one of the upper GSM bands (GSM 1800 / GSM 1900).

GERAN 2 agrees on the first change (UMTS-only MS RAC coding) as proposed by CN 1.

However GERAN 2 has a concern about the second change

GERAN have proposed an alternative to the CN1 CRs (that are contained in NP-030043).

Comments: CN1 chairman felt that the text was not correct, because we do not have the recommendation that "the mobile should indicate support for either GSM DCS 1800 band OR GSM PCS 1900 band."

However it was proposed to approve the GERAN2 CRs and refine the complete solution in CN1.

The CRs contained in the LS were approved.

Status: **NOTED - CRs APPROVED.**

5.3 From other groups

LSs moved to other agenda items:

NP-030118 moved to 6.6

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-0300037 Status Report for TSG CN WG1, CN1 Chair

Comments: Note: the August meeting dates are incorrect in the report.

Status: **NOTED.**

NP-030038 CN1 meeting report from CN1#28, MCC. **NOTED.**

NP-030039 All LSs sent from CN1 since TSG CN#18 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-030082 Status Report for TSG CN WG2, source CN2 Chair

Comments: It was noted that CAMEL 4 in Rel-6 is slightly different from CAMEL 4 in Rel-5. It is backwards compatible but includes a new sub-set "Enhanced dialled services". CAMEL support for concatenated SMS pre-paid charging may be added for Release 6 if SA1 approve the necessary WI. It was noted that MCC is able to provide support for CN2 up until the end of 2003. This is primarily due to budgetary constraints. This will be further discussed under agenda item 10.3.

Status: **NOTED.**

NP-030083 CN2 meeting report from CN2#28, MCC. **NOTED.**

NP-030084 All LSs sent from CN2 since TSG CN#18 Meeting, MCC. **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-030070 Status Report for TSG CN WG3, CN3 Chair

Comments: Note: the August meeting dates are incorrect in the report.

There is an discussion document on an alternative approach for SCUDIF in NP-030131 and a related CN4 CR pack in NP-030106. These will be treated together.

Lucent asked that CN3 also examine TR 29.962 in their April ad hoc meeting. Norbert replied that the ad hoc meeting has the mandate to progress work only on TS 29.163. The CN meeting could not support rushing the analysis of this TR and proposed continuing as previously agreed. CN3 will examine the CN1 output on TR 29.962 in the CN3 May meeting. However if individual companies have specific concerns they can extract elements from the TR and present them to SA2 as they feel appropriate.

Status: **NOTED.**

NP-030071 Meeting report from CN3#27, source MCC. **NOTED.**

NP-030072 All LSs sent from CN3 since TSG CN#18 Meeting, source 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-030006 Status Report for TSG CN WG4, CN4 Chair

Comments: CN4 ask the following questions to CN #19:

Should the work item for the protocol for the Ze interface be deleted?

SA3 have not formally been consulted on the deletion of the Ze interface.

CN Plenary propose to delete the Ze interface. This will be reported to the SA#19 meeting in the CN chairman's report. CN also will send a LS to SA3 [NP-030139] to inform them that we are deleting the work item for the protocol on the Ze interface. However if individual companies wish to bring contributions on the Ze interface to the CN4 working group meetings this can still be done.

Should the work item for the Preferred Framing Protocol be deleted?

No company in the CN meeting showed interest in progressing this work.

It was agree to delete this Work Item.

No CRs have been approved and implemented to this WID and therefore nothing needs to be removed from the specifications

Should the work item Enhanced HE control of security be deleted?

No company in the CN meeting showed interest in progressing this work.

It was agreed to delete this work item from the project plan. This information will be included in the LS to SA3 [NP-030139].

Stephen will report all of these changes to SA#19 meeting.

Status: **NOTED.**

NP-030139 LS on proposed deletion of security-related work items in TSG-CN, source TSG CN

Content: In this LS, TSG CN asks TSG SA WG3 to indicate to CN WG4 whether the protocol development for the Ze interface is still required, and if so to encourage companies to bring technical contributions to the next CN WG4 meeting to allow concrete progress to be made.

In addition TSG CN asks TSG SA WG3 to indicate to CN WG4 whether the feasibility study on the network impacts of enhanced HE control of security is still required, and if so to provide specific guidance on the requirements to the next CN WG4 meeting to allow concrete progress to be made.

Status: **APPROVED.**

NP-030093 CN4 meeting report since CN#18 meeting, MCC. **NOTED.**

NP-030094 All LSs sent from CN4 since TSG CN#18 Meeting, MCC. **NOTED.**

6.4.2 Questions for advice and decisions from CN4

No input documents; questions were handled in the discussion of the CN4 status report.

6.5 Reporting from TSG-CN WG5

6.5.1 Status report from CN5

NP-030015 Status Report for TSG CN WG5, source CN5 Chair

Comments: CN plenary endorsed the proposed CN5 method of issuing CRs over 2003.

Status: **NOTED**

NP-030017 CN5 meeting report from CN5#22, source MCC. **NOTED.**

NP-030016 All LSs sent from CN5 since TSG CN#18 Meeting, MCC. **NOTED.**

6.5.2 Questions for advice and decisions from CN5

No Input.

6.6 Status ITU-T ad hoc group

NP-030064 Progress Report, source ITU-T Ad Hoc Convenor

Content: Contains the progress report from the 3GPP CN - ITU-T Ad Hoc.

Status: **NOTED.**

NP-030066 Proposal as SDO Input To The ITU-T Draft Rec. Q.1741.3 ITU-T Ad Hoc Convenor

Comments: CN agreed that this will be the basis of the information that will be sent to the various SDOs

Status: **ENDORSED.**

NP-030065 Proposed LS on Co-ordination of SDO input to ITU-T Q.1741.3 ITU-T Ad Hoc Convenor

Content: Contains the list that was endorsed in NP-030066 in the form of a LS to the SDOs.

Comments: Suggested to attach the original circular letter that prompted this work.

Also some minor errors and modifications were discovered.

Status: **REVISED to 0150.**

? **REVISED ?**

NP-030150 Proposed LS on Co-ordination of SDO input to ITU-T Q.1741.3 ITU-T Ad Hoc Convenor

Status: **APPROVED.**

NP-030118 Received comments to Rec. Q.1741.2 approval relevant to 3GPP ITU-T To; source: Ericsson

Content: During the approval process for our draft Recommendation Q.1741.2 (IMT 2000 References to Release 4 of GSM evolved UMTS Core Network with UTRAN Access Network) which references the specifications transposed by the SDOs which make up 3GPP, a formal comment was received from NEC (Japan).

Comments: TSG CN considered the problem, and concluded that CRs may be brought to future meetings to resolve this issue.

Status: **NOTED.**

7 Release 4 & earlier: Approval of contributions (by Work Item)

**NOTE - Rel 4 and previous releases are functionally FROZEN.
ONLY CAT F and CAT A CRS ALLOWED.**

7.1 CAMEL Phase 2 and Phase 3

NP-030068 CR pack: Correction to interactions between CAMEL control of MO SMS and barring, source Vodafone, Lucent Technologies, L M Ericsson

Status: **APPROVED.**

NP-030085 CRs to R99 WI CAMEL3, source CN2

Status: **APPROVED.**

NP-030086 CR to R99 WI CAMEL3, source CN2

Comments: Noted that the ASN.1 modules of 29.078 v3.14.0 are also used in 29.278 v5.1.0. Motorola asked if another CR is required to 29.278. It was clarified that this CR is contained in NP-030090.

Status: **APPROVED.**

NP-030095 CR pack: Corrections on Camel Phase 3, source CN4

Status: **APPROVED.**

7.2 Security

7.3 GPRS

NP-030096 CR pack: Corrections on GPRS Release 99, source CN4

Status: **APPROVED.**

7.4 Location service enhancement [[LCS1](#)]

7.5 Handover

7.6 Location service enhancement [[LCS1](#)]

NP-030040 CR to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 09.08 and 49.008, source CN1

Status: **APPROVED.**

NP-030041 CR to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009, source CN1

Status: **APPROVED.**

7.7 Transcoder Free Operation [[TrFO](#)]

NP-030097 Corrections on Transcoder Free Operation Release 4, source CN4

Status: **APPROVED.**

7.8 Enable bearer independent CS architecture [CSSPLIT]

NP-030076 Corrections on CSSPLIT, source CN3

Status: **APPROVED.**

7.9 Multicall

NP-030099 Corrections on Multicall R99 CN4

Status: **APPROVED.**

7.10 OSA Enhancements [OSA1]

NP-030018 Rel-4 CRs 29.198-02 OSA API Part 2: Common data, source CN5

Comments: Work item code seems to change between CRs. It is best to keep the same WI code for mirror CRs. MCC will correct this in the CR database.

Status: **APPROVED.**

NP-030019 Rel-4 CRs 29.198-03 OSA API Part 3: Framework, source CN5

Status: **APPROVED.**

NP-030020 Rel-4 CRs 29.198-04 OSA API Part 4: Call control, source CN5

Comments: Some of the subjects between mirrors and base CRs are not the same.

Status: **APPROVED.**

NP-030021 Rel-4 CRs 29.198-05 OSA API Part 5: Generic user interaction, source CN5

Status: **APPROVED.**

NP-030022 Rel-4 CRs 29.198-06 OSA API Part 6: Mobility, source CN5

Status: **APPROVED.**

NP-030023 Rel-4 CRs 29.198-07 OSA API Part 7: Terminal Capabilities, source CN5

Status: **APPROVED.**

NP-030024 Rel-4 CRs 29.198-08 OSA API Part 8: Data session control, source CN5

Status: **APPROVED.**

NP-030025 Rel-4 CRs 29.198-11 OSA API Part 11: Account management, source CN5

Status: **APPROVED.**

NP-030026 Rel-4 CRs 29.198-12 OSA API Part 12: Charging, source CN5

Status: **APPROVED.**

7.11 Small Technical Enhancements & Improvements [TEI]

NP-030042 CR to R99 (with mirror CRs) on Work Item TEI towards 24.008, source CN1

Status: **APPROVED.**

NP-030043 CR to R99 (with mirror CRs) on Work Item TEI towards 24.008 awaiting GERAN endorsement, source CN1

Comments: Relates to the GERAN2 LS in NP-030141. The CRs in 0043 were revised and replaced by the CRs contained in NP-0300141

Status: **REVISED to 0141 (GERAN2 LS).**

NP-030044 CR to Rel-4 (with mirror CR) on Work Item TEI4 towards 24.002, source CN1

Status: **APPROVED.**

NP-030074 CRs to R97 (with mirror CRs) on Work Item T.E.I, source CN3

Comments: It was noted that similar corrections are required to remove the references to 03.61 and 03.62 that no longer exist in this release but still remain in the various versions of 09.61 and 29.061.
Motorola and 3 questioned having such large editorial changes added to a minor technical change. It was requested to identify the technical changes that have been 'bundled' with these editorial changes. The essential corrections were only to references and to incorrect figures.
There were no sustained objections to the CRs.

Status: **APPROVED.**

NP-030075 CRs to Rel-4 (with mirror CRs) on Work Item T.E.I, source CN3

Status: **APPROVED.**

NP-030098 Corrections on small technical enhancements and improvements for R96, source CN4

Status: **APPROVED.**

NP-030100 Corrections on small technical enhancements and improvements for R99, source CN4

Status: **APPROVED.**

7.12 Any Other pre-Release 5 WI

NP-030061 Proposed new TR 29.abc on network errors, source Nokia

Content: The document contains a draft TR on specific network implementation faults and possible UE workaround procedures

Several network implementation errors have been detected during the testing of R99 UEs. Due to complicated logistics it has not been possible to install corrections to every existing network and therefore R99 mobiles will not work in those networks which still contain the errors.

The document proposes that R99 UEs cannot be distributed before all networks in the world have been updated, unless some rapid actions are taken and it is proposed that a new TR is started to share the identified workarounds in R99 and later UEs.

The intention is not to mandate any specific behaviour but just to document the solutions which have been identified and analysed for correctness in the appropriate working group.

Comments: See the related discussion under NP-030014.

Status: **NOTED.**

NP-030137 LS on terminal and network revision interoperability problems

Content: TSG GERAN asks the GSMA Board to note the detected interoperability problems and consider actions to correct the situation. TSG GERAN appreciates the challenge of installing corrections to every existing piece of affected network equipment, but stresses the fact that such interoperability problems need to be solved in order to facilitate the deployment of commercial R99 UE's.

Comments: The specifications related to this issue are correct. The problem is due to a mis-implementation of those specification.

Nortel did not agree that the baseline specifications were entirely correct and problems in implementation may be due to the ambiguity of the specifications.

Motorola agreed that there was some lack of clarity in certain areas of the related specifications.

Status: **NOTED.**

NP-030014 LS on GSM phase 2 network errors, source CN1

Content: CN1 has discussed but not agreed a proposed document on known implementation errors in GSM phase 2 networks. A GSM phase 2 network with any of these errors can provide either degraded service or fail to provide any service at all to a compliant R99 UE.

These problems have been raised to the attention of both GERAN and CN1 during summer 2002. Even though it is understood that the corrections to all these errors are available from the network manufacturers, the updating of the networks is not under the control of either 3GPP or the manufacturers.

CN1 is aware that GERAN has also asked guidance on this issue from GSMA [see the LS contained in NP-030137].

CN1 asks CN Plenary to do the following:-

1. *Study the problem and to decide whether documenting such problems is needed*
2. *If TSG CN see that such documenting of known problems is needed then it is requested to define the right forum and format for the documentation.*

Comments: It was agreed that a meeting tdoc and/or report do not have enough stability to document these technical problems.

Motorola confirmed that network patches are available for all of the identified problems. However these are available principally to later versions of the software.

Several operators have demanded work around for these problems. However suppliers must provide equipment that conforms to approved 3GPP specifications. Hence the workarounds must be correctly documented.

In order to allow the desired workarounds Motorola prefer to have approved 3GPP documentation. The situation is further complicated by the roaming issues.

The GSMA needs to press the operators to implement the correction to the existing networks.

Nokia asked what the proposed timeframe must be to have a certain percentage of the networks upgraded to solve the networking issues.

Siemens proposed going beyond having a TR for the network errors, and suggested for certain cases it may be possible to capture the proposed workarounds in the actual core specifications (TSs). Siemens formally objected to the proposed TR. However TSG CN did not agree to closing off the option of a specific TR until the response has been received from GSMA. However CN1 are asked not to continue work on the draft TR.

Ericsson proposed to have the work done in the GSMA and not having such a TR in 3GPP.

NEC and Orange supported the Ericsson approach to having this resolved in GSMA.

Orange preferred not to change the core specifications, but rather to send an LS to GSMA highlighting the problems and requesting an estimate of when 3GPP can expect these problems to be resolved in the various networks.

The agreed documentation method will be to define an option in the core network specifications. This means there will be no need for the TR.

However some companies (including 3) stated they may object to R99 CRs on this.

CN Plenary produced the LS to the GSMA [NP-030142] with the following main points.

Urge the operators to deploy the required fixed to the network

Warn the GSMA that deployment of a non-3GPP documented workaround carries risks

The GSMA provide 3GPP an assessment of how long the problems that have been identified will persist and the scale of these problems

CN Plenary Guidance to CN1

The TR will not progress in CN1 (it could be revived following a response from GSMA)

Technical work on this must be done using CAT F CRs to the core specifications.

Usual handling of CAT F CRs to a frozen Release will apply.

The Work Item code of T.E.I may be used for these CRs

The changes apply to R99 only and no mirror CRs will be required to later releases.

Status: **NOTED.**

NP-030142 Liaison statement on error handling in Pre-R99 networks, source CN

Comments: There were concerns with the text in the second paragraph (the term non-compliant implementation). Alternative text was proposed and drafted on-line.

It was requested to underline the urgency of the issue to GSMA.

It was stressed that the only place that the alternative solutions should be documented is in 3GPP permanent documents (i.e TS and TR).

Suggested to add TSG SA to the cc field.

GSMA are asked to reply to all recipients as the next TSG CN meeting is not before June.

Status: **REVISED to 0146.**

? **REVISED ?**

NP-030146 Liaison statement on error handling in Pre-R99 networks, source CN
NOTE: On the last day of CN#19 meeting, Francois Dronne (Orange France) informed the meeting that he had forwarded the LS to a contact in the GSMA; they have seen both this LS and the original one from GERAN. It is hoped that an answer may be sent in time to reach SA#19.

Status: **APPROVED.**

NP-030063 Documentation of GSM phase 2 network errors, source Siemens
Content: The document proposes a procedure for proceeding with the issue of these network errors.

Status: **NOTED.**

NP-030128 On the proposed TR on "Recommended User Equipment (UE) measures to overcome specific infrastructure faults", source Ericsson, Alcatel, Orange.

Content: The discussion paper addresses the severe consequences of introducing a 3GPP TR on "Recommended User Equipment (UE) measures to overcome specific infrastructure faults"
The authors of the contribution do not challenge the technical errors that are identified in the proposed TR.

The document concludes that the problems currently identified in the proposed TR are network implementation problems and that patches to those are presently available. The safest solution would be to rollout the network patches urgently.

The existence of a TR like the one proposed would partly remove the incentive for manufacturers to provide corrections as well as for operators to update their old networks urgently, leaving it all to UE implementation 'workarounds'.

It is argued that the existence of a TR, recommending 'workarounds' in otherwise compliant UEs, will set a very dangerous precedence that will make the quality and consistency of the 3GPP standards deteriorate. In addition it will add cost to development, and there would also be cost in case of a later need to recall delivered UEs. Another drawback is that also operators with well-behaving networks would suffer from reduced functionality in the UEs with such 'workarounds'.

Furthermore a similar issue was discussed at CN1#27 (N1-022489). In this case, the CN1 recommendation was that R99 upgrades should be well co-ordinated by the operator in its network, but that the related mechanisms did not need to be standardised.

The contribution concludes that documenting 'workarounds' in a TR is unproven and detrimental.

Status: **NOTED.**

NP-030134 Comments on Proposed TR "Specific network implementation faults and possible UE workaround procedures, source Nortel

Content: Nortel is not happy with the proposed TR as it is presented to this meeting.

The contribution proposes that:

- 3GPP accepts a TR with the proposed criteria indicated above for inclusion
- the title and introductory text is as shown in the contribution
- experts in CN and GERAN working groups are asked to assess the technical correctness of the proposed work arounds in the draft TR. This should be done before they are included in the draft TR text.

Status: **NOTED.**

8 Release 5:

NOTE - Rel 5 release is functionally FROZEN. ONLY CAT F and CAT A CRS ALLOWED

8.1 Provisioning of IP-based multimedia services [IMS]

NP-030045 CR to Rel-5 on Work Item IMS-CCR towards 23.218(040r2), source CN1

Status: **APPROVED.**

NP-030046 CR to Rel-5 on Work Item IMS-CCR towards 23.218(042) , source CN1

Status: **APPROVED.**

NP-030047 CRs to Rel-5 on Work Item IMS-CCR towards 24.228, source CN1

Status: **APPROVED.**

NP-030048 CR to Rel-5 on Work Item IMS-CCR towards 24.228(102r2) , source CN1

Status: **APPROVED.**

NP-030049 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 1, source CN1

Status: **APPROVED.**

NP-030050 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 2, source CN1

Status: **APPROVED.**

NP-030051 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 3, source CN1

Status: **APPROVED.**

NP-030052 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 4, source CN1

Status: **APPROVED.**

NP-030053 CRs to Rel-5 on Work Item IMS-CCR towards IMS access with SIM, source CN1

Comments: The question of raising the specifications to Rel-6 was discussed. The issue of IMS access with SIM for both Rel-5 and Rel-6 will be discussed in SA#19.

3 questioned if this provides the complete CN package for this issue. The impact on the Cx interface has not yet been examined by CN4.

Stephen will report to SA#19 that there may still be possible impacts on the Cx interface.

Status: **CONDITIONALLY APPROVED - <<CONDITION IS Corresponding CRs from SA1, SA2 and SA3 are approved in SA#19>>.**

NP-030054 CRs to Rel-5 on Work Item IMS-CCR towards Signalling PDP context Indication to Core Network, source CN1

Comments: There was some controversy on this in SA2. However this does not affect the CN1 CRs. Ericsson wished to see the stage 2 stable before CN approves the Stage 3 CRs.

The changes provide the indicator for signalling PDP context. SA have not yet decided how the indicator will be used. The CN1 CRs, whilst not 100% complete, are not incorrect. Additional changes may be required once SA2 resolve this issue.

Ericsson wished to send these CRs back to CN1. The 24.008 CR does not cover the existing requirements from SA2 [TS 23.060].

At this point an interesting discussion on the merit of fresh or frozen bread took place, but unfortunately it was not minuted.

Vodafone Motorola and Lucent wanted to approve these CRs and make additional changes to the CN1 specifications as and when required.

Ericsson were asked to provide a document explaining what is wrong with the CRs presented in this document above and beyond things that could be not added later. This is contained in NP-030148

Spec	CR	Rev	Cat	Phase	Subject	Doc-2nd-Level	STATUS
24.008	738	2	F	Rel-5	Signalling PDP Context Indication to Core Network	N1-030266	APPROVED
24.229	321	2	F	Rel-5	Signalling PDP Context Indication to Core Network	N1-030267	Sent back to CN1

Status: **PART APPROVED.**

NP-030148 Errors in NP-030054 which need resolution, source Ericsson

Comments: Ericsson are willing to accept the CR to 24.008 if it is noted that more work is required to complete this issue.

However Ericsson present in this document their analysis of the problems with the CR to 24.229.

The document also contained an alternative CR, but TSG CN could not approve this as it needs to be seen by CN1.

The related CR to 24.229 was sent back to CN1 for further study.

The Ericsson concerns could also be raised in SA2, in order to get them to specify the Stage 2 more clearly.

Status: **NOTED.**

NP-030101 Corrections on IP-based Multimedia Services Cx/Dx-interface, source CN4

Comments: MCC can replace the references once the RFCs have numbers and have been approved. Stephen Hayes will inform the MCC of this once it happens.

Status: **APPROVED.**

NP-030102 Corrections on IP-based Multimedia Services Sh-interface, source CN4

Comments: MCC can replace the references once the RFCs have numbers and have been approved. Stephen Hayes will inform the MCC of this once it happens.

Status: **APPROVED.**

8.2 OSA enhancements [OSA2]

NP-030027 Rel-5 CRs 29.198-02 OSA API Part 2: Common data, source CN5

Status: **APPROVED.**

NP-030028 Rel-5 CRs 29.198-03 OSA API Part 3: Framework, source CN5

Status: **APPROVED.**

NP-030029 Rel-5 CRs 29.198-04-1 OSA API Part 4: Call control; Sub-part 1: Call Control Common Definitions, source CN5

Status: **APPROVED.**

NP-030030 Rel-5 CRs 29.198-04-2 OSA API Part 4: Call control; Sub-part 2: Generic Call Control SCF, source CN5

Status: **REVISED to 0130.**

? **REVISED ?**

NP-030130 Rel-5 CRs 29.198-04-2 OSA API Part 4: Call control; Sub-part 2: Generic Call Control SCF, source CN5

Status: **APPROVED.**

NP-030031 Rel-5 CRs 29.198-04-3 OSA API Part 4: Call control; Sub-part 3: Multi-Party Call Control SCF, source CN5

Status: **APPROVED.**

NP-030032 Rel-5 CRs 29.198-04-4 OSA API Part 4: Call control; Sub-part 4: Multi-Media Call Control SCF, source CN5
Status: **APPROVED.**

NP-030033 Rel-5 CRs 29.198-05 OSA API Part 5: Generic user interaction, source CN5
Status: **APPROVED.**

NP-030034 Rel-5 CRs 29.198-08 OSA API Part 8: Data session control, source CN5
Status: **APPROVED.**

NP-030035 Rel-5 CRs 29.198-11 OSA API Part 11: Account management, source CN5
Comments: Text in the CR should be in the cover sheet
Status: **APPROVED.**

8.3 CAMEL Phase 4 **[CAMEL4]**

NP-030087 CRs to Rel-5 WI CAMEL4, source CN2
Status: **APPROVED.**

NP-030088 CRs to Rel-5 WI CAMEL4, source CN2
Status: **APPROVED**

NP-030089 CRs to Rel-5 WI CAMEL4, source CN2
Status: **APPROVED**

NP-030090 CRs to Rel-5 WI IMS-CAMEL, source CN2
Status: **APPROVED**

NP-030091 CRs to Rel-5 WI IMS-CAMEL, source CN2
Status: **APPROVED**

NP-030103 Corrections on Camel Phase 4, source CN4
Status: **APPROVED**

8.4 Location Service Enhancements **[LCS1]**

NP-030104 Corrections on Location Service Enhancements Release 5, source CN4
Status: **APPROVED**

8.5 End to End QoS **[E2EQoS]**

NP-030079 CR to Rel-5 on Work Item E2EQoS, source CN3
Status: **APPROVED**

NP-030080 CR to Rel-5 (29.207) on Work Item E2EQoS, source CN3
Status: **APPROVED**

NP-030081 CR to Rel-5 (29.208) on Work Item E2EQoS, source CN3
Status: **APPROVED**

NP-030105 Corrections on End to end QoS for PS Domain, source CN4
Comments: Lucent had some concerns with the CRs. It is possibly required to take this essential change back to R99. No objections to the CRs contained in the pack.
The issue of CRs to past releases will be further examined in CN4
Status: **APPROVED.**

8.6 Security enhancements [SEC1]

No input

8.7 Service Change and UDI Fallback [SCUDIF]

NP-030131 Concern for two step HLR interrogation, source DoCoMo

Content: The document proposes that CN postpones the approval of the CRs for two step HLR interrogation and CN asks CN3 and CN4 to take the signalling load into account.

Comments: It was clarified that the signalling load impacts were not considered in the CN3/CN4 discussions. The new proposal from DoCoMo has not yet been considered in CN3 and CN4. There is also some minor alignment required between the CN3 and CN4 CRs. Also the question of interaction with CAMEL has yet to be considered in both groups; CN2 should be involved in this discussion.

Status: **NOTED.**

NP-030143 Issues regarding one-step HLR interrogation, source Ericsson

Content: This contribution addresses the concerns expressed in NP-030131 that includes introduction of a one-step interrogation procedure.

Status: **NOTED.**

NP-030078 CR to Rel-5 on Work Item SCUDIF, source CN3

Comments: The CN3 CR is based on an earlier version of the CN4 MAP CRs. There is a need for minor alignments to the later versions of the CN4 CRs. This issue is sent back to CN3 and CN4 for further study.

Status: **REFERRED BACK TO CN3.**

NP-030106 Correction on Service Change and UDI Fallback, source CN4

This issue is sent back to CN3 and CN4 for further study.

Status: **REFERRED BACK TO CN4.**

8.8 Technical Enhancements and Improvements [TEI5]

NP-030055 CRs to Rel-5 on Work Item TEI5 towards 24.008, source CN1

Comments: Siemens also presented a CR direct to plenary [NP-030062] in order to complete this package.

Status: **APPROVED.**

NP-030062 Introduction of USIM in the figure "Overview mobility management protocol" , source Siemens

Status: **APPROVED.**

NP-030056 CR to Rel-5 on Work Item TEI5 towards 23.034, source CN1

Status: **APPROVED.**

NP-030077 CR to Rel-5 on Work Item T.E.I, source CN3

Status: **APPROVED.**

NP-030107 Small Technical Enhancements and Improvements for GTP specification Rel-5, source CN4

Status: **APPROVED.**

NP-030108 Small Technical Enhancements and Improvements for CSSPLIT specification Rel-5, source CN4

Status: **APPROVED.**

NP-030109 **Small Technical Enhancements and Improvements for CCBS specification Rel-5, source CN4**

Status: **APPROVED.**

NP-030110 **Small Technical Enhancements and Improvements for SMS specification Rel-5, source CN4**

Comments: Once again the issue of editorial changes to frozen releases was raised.

Status: **APPROVED.**

8.9 Any other Rel-5 WI

No Input.

9 Release 6

9.1 IMS Phase 2 [IMS]

NP-030073 TR 29.962v1.0.0 (for information) , source CN3

Content: Contains the latest version of TR 29.962.

As agreed in a joint meeting between CN3#26 and CN1#27 in Bangkok, and endorsed by CN#18, the TR will be reviewed by CN1.

The review will take place during CN1#28 in Sophia Antipolis. The proposed changes will be endorsed by CN3#27 in San Diego. If required, a joint CN1 / CN3 meeting may also be organised in San Diego to complete the review.

CN1 are expecting comments against the TR to be made in the format of a CRs.

Status: **NOTED.**

NP-030115 Updated WID for Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface between IMS-MGW and MGCF, source CN4

Status: **APPROVED.**

9.2 Support of Presence Capability [PRESNC]

No Input.

9.3 Security Enhancements[SEC1]

No Input.

9.4 Emergency Call Enhancements [EMC1]

NP-030059 WID: Emergency Call Enhancements for IP& PS Based Calls - stage 3, source CN1

Status: **REVISED to 0144 (before presentation).**

? **REVISED ?**

NP-030144 WID: Emergency Call Enhancements for IP& PS Based Calls - stage 3, source Ericsson

Content: Updated WID following the response from SA2 in NP-030122.

Comments: The corresponding SA2 WID that is contained in the SA2 LS has been agreed by SA2 (to be presented to SA#19).

This stage 3 WID has not been seen and agreed by CN1, but aligns with the SA2 WID.

It was mentioned that the TSG #22 date is incorrect. Also the use of headers in the document needs to be examined / cleaned.

Status: **REVISED to 0149.**

? **REVISED ?**

NP-030149 WID: Emergency Call Enhancements for IP& PS Based Calls - stage 3, source Ericsson

Status: **APPROVED.**

NP-030117 LS on updated WID for emergency call enhancements for IP & PS based calls, source CN1

Content: The existing WID for emergency call enhancements for IP & PS based calls has not been updated since March 2001 and needs a major revision. The proposed updated WID 'Emergency call enhancements for IP & PS based calls – stage 3' is attached for information.

Status: **NOTED.**

NP-030122 Reply LS on updated WID for emergency call enhancements for IP & PS based calls SA2 To; source: Ericsson

Content: SA2 has followed the recommendation from CN WG1 to create a new feature level work item on the additions needed in GPRS and IMS to support IMS emergency sessions. The SA2 work item will include both emergency access scenarios, with UICC and without UICC.

Status: **NOTED.**

9.5 Speech Recognition and Speech Enabled Services [SRSES]

No input

9.6 Generic User Profile [GUP]

No input

9.7 OSA Enhancements [OSA3]

NP-030124 LS on Status of OSA Rel6 Requirements, source CN5

Content: In this LS CN5 asks SA1 group to analyse the status of the OSA Rel6 requirements, re-visit the issue of company support for those for which CN5 is receiving no contributions, and consider removing those with no support from the OSA stage 1 specification. CN5 asks CN to monitor this activity.

Comments: If there is lack of support for these areas of work SA will be asked to delete them. Stephen will report this issue to TSG SA.

Status: **NOTED.**

NP-030036 Rel-6 [draft] Revised WID OSA Stage 3, source CN5

Content: Contains the Updated Rel-6 Work Item Description for OSA Stage 3

Comments: Noted that WIDs usually do not indicate Release, but in the case of these bundled work items Rel6 has been used to identify the bundle.

Status: **APPROVED.**

9.8 Multimedia Broadcast and Multicast Service [MBMS]

NP-030060 WID: Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols, source CN1

Comments: Need to change some of the dates (CN#22).

The work for CN3 has not yet been defined (29.061). It was mentioned that there may not be work for CN3; this was just a place holder.

NTT DoCoMo were added to the supporting companies.

Status: **REVISED to 0151.**

? **REVISED ?**

NP-030151 WID: Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols, source CN1

Status: **APPROVED.**

9.9 Preferred Framing Protocol [PFP]

NP-030119 Liaison on eTFO, source SA2

Content: This LS provides the result of the SA2 study on the system aspects and impacts of enhanced TFO (eTFO).

Status: **NOTED.**

NP-030127 Clarification on Framing Protocol, source Alcatel, Ericsson, Lucent, Nokia, Siemens.

Content: This contribution relates to the SA2 LS (NP-030119) and attempts to clarify the different interpretations on how G.711 encoded speech may be carried over Nb according to existing standards.

Comments: Nortel supported the conclusions presented in this document.

Stephen Hayes will inform TSG SA that we have seen and endorsed this document (NP-030127).

Status: **ENDORSED.**

9.10 Small Technical Enhancements and Improvements [TEI6]

NP-030057 CR to Rel-6 on Work Item TEI6 towards 24.008, source CN1

Status: **APPROVED.**

NP-030111 **Small Technical Enhancements and Improvements for MAP specification Rel-6, source CN4**
Status: **APPROVED.**

NP-030112 **Small Technical Enhancements and Improvements for SMS specification Rel-6, source CN4**
Status: **APPROVED.**

NP-030113 **Small Technical Enhancements and Improvements for Priority Service specification Rel-6, source CN4**
Status: **APPROVED.**

9.11 Any other Rel-6 WI

NP-030058 **CR to Rel-6 on Work Item T-GSM towards 24.008, source CN1**
Status: **APPROVED.**

NP-030067 **WID: Enhancement of dialled service for CAMEL in Release 6, source Rapporteur (Samsung)**
Content: This is a duplicate of NP-030092
Status: **WITHDRAWN**

NP-030092 **WID "Enhancement of dialled services for CAMEL", source CN2**
Comments: Requirement to remove the Rel-6 from the title and throughout the WID
Also there are not any new specs listed only existing specifications. these must be moved
Also some need for table alignment in the formatting.
Ericsson suggested that CN#21 is not really achievable - suggest moving back to CN#22. CN could not agree to this but asked the rapporteurs and CN2 to examine the dates.
Status: **REVISED to 0152.**

? **REVISED ?**

NP-030152 **WID "Enhancement of dialled services for CAMEL", source CN2**
Comments: One minor error was detected
Status: **REVISED to 0153.**

? **REVISED ?**

NP-030153 **WID "Enhancement of dialled services for CAMEL", source CN2**
Status: **APPROVED.**

NP-030114 **Corrections on Location Service Enhancements Release 6, source CN4**
Status: **APPROVED.**

NP-030116 **WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking, source CN4**
Comments: The LS from SA2 (NP-030121) detailed the stability of the WLAN work in SA2.
There has been some discussion in CN3 that the work on the Wm interface could also be done by CN3 as they have already done similar work. This request has been raised in CN4, no final decision has been made, but for the moment the Wm interface is allocated to CN4.
Siemens acknowledge the SA2 recommendation for the use of Diameter protocol over the Wm interface. There may be other candidates. However if DIAMETER is the chosen protocol then CN4 would be best placed to develop the Wm interface.
Status: **APPROVED.**

NP-030136 **Discussion on IPv6 utilisation within IMS, source mmO2**
Content: This discussion document on the utilisation of IPv6 within IMS is principally intended for TSG SA, and is presented to TSG T and CN in order to get comments and feedback before its presentation to TSG SA.

Comments: TSG CN can provide input in this, but Stephen Hayes had concerns on re-opening Rel-5 to support IPv4.

It is not known to what extent interworking with IPv6 is necessary for the functionality of IMS.

In the IETF, the plan of the SIP working group is to present a roadmap on the impacts of interworking with IPv6.

There is also a draft IPv4 to IPv6 transition document under progression in the IETF.

Nokia Ericsson and Siemens stated that it is too late to introduce such functionality into Rel-5 but would support examining this in Rel-6.

IETF is looking for drivers for IPv6, 3GPP is one major driver for IPv6 and if 3GPP's support of IPv6 waivers at some point, this may have a roll on effect on the overall deployment of IPv6 in the field. 3GPP need to be cautious on the message it is sending.

Status: **NOTED.**

10 TSG CN work organization

10.1 Principles for work organization within CN

"NICE TO HAVE" CRs:

TSG CN meeting # 19 decided that the 'nice to have = non-critical' CRs will be allowed to Rel-5 until CN#20 meeting.

After CN#20 'nice to have/ non-critical ' CRs will no longer be allowed.

Merge of CN2 and CN4:

A proposal was made to merge CN2 and CN4 in December 2003.

The CN2 Chair stated that it makes sense to merge CN2 and CN4 if there are no parallel sessions planned (as companies still need to send several delegates to cover all issues).

The CN4 Chair summarised that the merge is desirable if and only if there is a single stream of meetings with one MCC support. With the current level of work it is most probable that this would mean at least 6 meetings a year for the new merged CN2+4.

CN#19 meeting could not agree to merge the two working groups in December 2003.

CN2 and CN4 will study this and come up with a proposal once SA has examined and fixed the Rel-6 freezing date.

The chairs of CN2 and CN4 will present a proposal to CN#20 meeting.

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

NP-030138 2003/4 Meeting schedule, source MCC. **NOTED.**

Feb 2003					
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	10 - 14 Feb 2003	Dublin	IR	
Mar 2003					
3GPPCN-#19	OR	12 - 14 Mar 2003	Birmingham	UK	
May 2003					
Joint CN WG Meeting (CN1, 2, 3, 4, 5)	WG	19 - 23 May 2003	San Diego	US	
Jun 2003					
3GPPCN-#20	OR	4 - 6 Jun 2003	HÄMEENLINNA	FI	
Aug 2003					
Joint CN WG Meeting (CN1, 2, 3, 4, 5)	WG	25 - 29 Aug 2003	Sophia	FR	
Sep 2003					
3GPPCN-#21	OR	17 - 19 Sep 2003	Berlin	DE	
Oct 2003					
Joint CN WG Meeting (CN1, 2, 3, 4) + SA1 and SA2	WG	27 - 31 Oct 2003	???, China	CN	
Dec 2003					
3GPPCN-#22	OR	10 - 12 Dec 2003	Maui, Hawaii	US	
Mar 2004					
3GPPCN-#23	OR	10 - 12 Mar 2004	???, China	CN	
Jun 2004					
3GPPCN-#24	OR	2 - 4 Jun 2004	Seoul	KO	
Sep 2004					
3GPPCN-#25	OR	8 - 10 Sep 2004	???, US	US	
Dec 2004					
3GPPCN-#26	OR	8 - 10 Dec 2004	Athens	GR	

CN1 chairman said that the September 2004 meeting date is early and it would be preferable to push it back by one week in order to allow delegates to have a reasonable summer holiday and prepare adequately for working group meetings. However comments came that US delegations may like to see the meeting move forward one week. Others supported leaving the September meeting where it is. There was no consensus on this.

The CN2 opinion is that meetings in mid August are not desirable.

11 Specifications in TSG-CN domain

NP-030132 CRs to lists of specs, frozen Releases, source JMM,MCC

Status: **NOTED**

NP-030133 Specs status list prior to TSGs#19, source JMM, MCC

Status: **NOTED**

NP-030145 Specifications not yet under change control, but pertaining to frozen Releases, source JMM, MCC

Status: **NOTED**

12 Review of 3GPP Work Plan

NP-030008 3GPP Work Plan, source MCC **NOTED.**

NP-030009 3GPP Work Plan [Slide Presentation] , source MCC

Comments: Updates made online >>>

Page 22 CN agreed to delete the work item Preferred framing protocol for bearer independent CS architecture

Page 28 Emergency call enhancements for IP & PS based calls-Stage 3 pushed back to DEC. 2003

Page 33 CN agreed to delete the work item for the Ze interface

Page 35 CN review of SIP capabilities against IMS complete by Dec 2003

Page 38 Interoperability and commonality between IMS using different IP connectivity networks. If Stage 2 is complete in March, the stage 3 will be available in June.

Page 39 Push Services:- Stage two complete in December 2003, but no stage 3 work expected.

Page 43 Presence completion from CN1 stated as June Lucent believe September

The slides and work plan will be updated before presentation to TSG SA#19.

CN could not agree on a deadline for no longer introducing new work items for Release 6.

TSG CN asked that the updated work plan be available one week after the SA Plenary.

CN Chair suggested linking the work plan to the MCC statistics.

Status: **NOTED**

13 Postponed issues from earlier in the meeting

No Input.

14 Election of TSG CN Officials

The election of TSG CN officials was held on Thursday 13th March at 09:00.

There was one candidate for the position of CN Chairman. **Mr Stephen Hayes (Ericsson) was re-elected as the Chairman of TSG CN.**

There were two candidates for the two positions of CN Vice Chairman. **Mr Ian Park (Vodafone) and Mr Kunihiro Taya (NEC) were re-elected as the Vice Chairmen of TSG CN.**

15 Any other business

No Input.

16 Close of Meeting

The Chairman thanked the host, delegates and MCC for their participation, and closed the meeting at 13:10 on Friday 14th March.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	Attach.
NP-030139	LS on Proposed deletion of security-related work items in TSG-CN	SA3	SA, CN4	-
NP-030146	Liaison statement on error handling in Pre-R99 networks	GSMA Board, GSMA TWG	TSG GERAN, TSG SA, TSG CN WG1	GP-030322
NP-030150	LS on Co-ordination of SDO input to ITU-T Q.1741.3	ARIB, CWTS, ETSI, T1, TTA, TTC	TSG SA	-

A.2 New TSs /TRs Approved (to be placed under change control)

NONE.

A.3 New / Revised Work Items Approved

Tdoc	Tdoc Title	Source	Rel
NP-030036	Rel-6 [draft] Revised WID OSA Stage 3	CN5	Rel-6
NP-030115	Updated WID for Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mc Interface between IMS-MGW and MGCF	CN4	Rel-6
NP-030116	WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking	CN4	Rel-6
NP-030149	Emergency Call Enhancements for IP& PS Based Calls - stage 3	Ericsson	Rel-6
NP-030151	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	CN1	Rel-6
NP-030153	WID "Enhancement of dialled services for CAMEL"	CN2	Rel-6

A.4 Status of CRs following TSG CN Plenary meeting

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Result	WG	Workitem
09.08	A141	-	R99	F	NP-030040	N1-030084	approved	Corrections to the list	8.1.0	8.2.0	N1	GSM/UMTS interworking
23.009	091	1	R99	F	NP-030041	N1-030292	approved	Further clarification of	3.12.0	3.13.0	N1	GSM/UMTS interworking
23.009	092	1	Rel-4	A	NP-030041	N1-030293	approved	Further clarification of	4.6.0	4.7.0	N1	GSM/UMTS interworking
23.009	093	1	Rel-5	A	NP-030041	N1-030294	approved	Further clarification of	5.3.0	5.4.0	N1	GSM/UMTS interworking
23.034	008	-	Rel-5	F	NP-030056	N1-030091	approved	Use of Nb UP protocol	5.1.0	5.2.0	N1	TEI5
23.218	040	2	Rel-5	F	NP-030045	N1-030309	approved	Clarification on Sh	5.3.0	5.4.0	N1	IMS-CCR
23.218	042	-	Rel-5	F	NP-030046	N1-030197	approved	Correction related to	5.3.0	5.4.0	N1	IMS-CCR
24.002	002	1	Rel-4	F	NP-030044	N1-030211	approved	Removal of the S	4.0.0	4.1.0	N1	TEI4
24.002	003	1	Rel-5	A	NP-030044	N1-030212	approved	Removal of the S	5.0.0	5.1.0	N1	TEI4
24.008	728	-	R99	F	NP-030042	N1-030066	approved	Correction on CC	3.14.0	3.15.0	N1	TEI
24.008	729	-	Rel-4	A	NP-030042	N1-030067	approved	Correction on CC	4.9.0	4.10.0	N1	TEI
24.008	730	-	Rel-5	A	NP-030042	N1-030068	approved	Correction on CC	5.6.0	5.7.0	N1	TEI
24.008	731	1	Rel-5	F	NP-030055	N1-030213	approved	Support of UMTS	5.6.0	5.7.0	N1	TEI5
24.008	733	1	Rel-6	C	NP-030057	N1-030224	approved	Interruption of DL user	5.6.0	6.0.0	N1	TEI6
24.008	734	2	R99	F	NP-030141	N1-030207r	approved	MS RAC for UMTS	3.14.0	3.15.0	N1	TEI
24.008	735	2	Rel-4	A	NP-030141	N1-030208r	approved	MS RAC for UMTS	4.9.0	4.10.0	N1	TEI
24.008	736	2	Rel-5	A	NP-030141	N1-030209r	approved	MS RAC for UMTS	5.6.0	5.7.0	N1	TEI
24.008	737	1	Rel-5	F	NP-030055	N1-030115	approved	High multislot classes	5.6.0	5.7.0	N1	TEI5
24.008	738	2	Rel-5	F	NP-030054	N1-030266	approved	Signalling PDP Context	5.6.0	5.7.0	N1	IMS-CCR
24.008	739	2	Rel-6	B	NP-030058	N1-030270	approved	Implementation of new	5.6.0	6.0.0	N1	T-GSM
24.008	740	1	Rel-5	F	NP-030055	N1-030214	approved	Missing IEI definition in	5.6.0	5.7.0	N1	TEI5
24.008	741	1	Rel-5	F	NP-030055	N1-030216	approved	Combined RAU	5.6.0	5.7.0	N1	TEI5
24.008	746	-	Rel-5	F	NP-030055	N1-030253	approved	Enhanced Power	5.6.0	5.7.0	N1	TEI5
24.008	747	-	Rel-5	F	NP-030062	NP-030062	approved	Introduction of USIM in	5.6.0	5.7.0	N1	TEI5
24.228	097	2	Rel-5	F	NP-030047	N1-030269	approved	Correction of the	5.3.0	5.4.0	N1	IMS-CCR
24.228	098	1	Rel-5	F	NP-030047	N1-030247	approved	General update to	5.3.0	5.4.0	N1	IMS-CCR
24.228	099	1	Rel-5	F	NP-030047	N1-030248	approved	General update to	5.3.0	5.4.0	N1	IMS-CCR
24.228	100	1	Rel-5	F	NP-030047	N1-030249	approved	General update to	5.3.0	5.4.0	N1	IMS-CCR
24.228	102	2	Rel-5	F	NP-030048	N1-030283	approved	General update to	5.3.0	5.4.0	N1	IMS-CCR
24.229	291	-	Rel-5	F	NP-030049	N1-030012	approved	Minor correction and	5.3.0	5.4.0	N1	IMS-CCR
24.229	292	-	Rel-5	F	NP-030049	N1-030013	approved	SIP profile minor	5.3.0	5.4.0	N1	IMS-CCR
24.229	293	1	Rel-5	F	NP-030049	N1-030261	approved	Network asserted	5.3.0	5.4.0	N1	IMS-CCR
24.229	294	1	Rel-5	F	NP-030049	N1-030300	approved	Asserted identity	5.3.0	5.4.0	N1	IMS-CCR
24.229	296	-	Rel-5	F	NP-030049	N1-030023	approved	Profile references	5.3.0	5.4.0	N1	IMS-CCR
24.229	297	2	Rel-5	F	NP-030049	N1-030301	approved	Reference corrections	5.3.0	5.4.0	N1	IMS-CCR
24.229	300	1	Rel-5	F	NP-030050	N1-030245	approved	488 message with a	5.3.0	5.4.0	N1	IMS-CCR
24.229	301	1	Rel-5	F	NP-030050	N1-030239	approved	Handling of Emergency	5.3.0	5.4.0	N1	IMS-CCR
24.229	302	2	Rel-5	F	NP-030050	N1-030268	approved	Correction of the	5.3.0	5.4.0	N1	IMS-CCR

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
24.229	305	2	Rel-5	F	NP-030050	N1-030295	approved	User initiated de-	5.3.0	5.4.0	N1	IMS-CCR
24.229	306	2	Rel-5	F	NP-030050	N1-030296	approved	Network-initiated	5.3.0	5.4.0	N1	IMS-CCR
24.229	307	2	Rel-5	F	NP-030050	N1-030297	approved	UE deregistration	5.3.0	5.4.0	N1	IMS-CCR
24.229	308	2	Rel-5	F	NP-030050	N1-030298	approved	S-CSCF handling of	5.3.0	5.4.0	N1	IMS-CCR
24.229	309	1	Rel-5	F	NP-030050	N1-030233	approved	S-CSCF handling of	5.3.0	5.4.0	N1	IMS-CCR
24.229	310	2	Rel-5	F	NP-030050	N1-030299	approved	S-CSCF handling of	5.3.0	5.4.0	N1	IMS-CCR
24.229	311	1	Rel-5	F	NP-030051	N1-030235	approved	P-CSCF handling of	5.3.0	5.4.0	N1	IMS-CCR
24.229	312	1	Rel-5	F	NP-030051	N1-030240	approved	Correction of	5.3.0	5.4.0	N1	IMS-CCR
24.229	313	-	Rel-5	F	NP-030051	N1-030127	approved	Mixed Path header and	5.3.0	5.4.0	N1	IMS-CCR
24.229	315	2	Rel-5	F	NP-030051	N1-030255	approved	Clarifications on	5.3.0	5.4.0	N1	IMS-CCR
24.229	318	2	Rel-5	F	NP-030051	N1-030307	approved	Consideration of P-	5.3.0	5.4.0	N1	IMS-CCR
24.229	319	2	Rel-5	F	NP-030051	N1-030308	approved	Clarification on GPRS	5.3.0	5.4.0	N1	IMS-CCR
24.229	323	1	Rel-5	F	NP-030051	N1-030250	approved	P-Access-Network-Info	5.3.0	5.4.0	N1	IMS-CCR
24.229	324	1	Rel-5	F	NP-030051	N1-030251	approved	P-Access-Network-Info	5.3.0	5.4.0	N1	IMS-CCR
24.229	326	1	Rel-5	F	NP-030051	N1-030260	approved	Updating user agent	5.3.0	5.4.0	N1	IMS-CCR
24.229	327	2	Rel-5	F	NP-030052	N1-030282	approved	Cleanup and	5.3.0	5.4.0	N1	IMS-CCR
24.229	328	1	Rel-5	F	NP-030052	N1-030230	approved	Corrections to the reg	5.3.0	5.4.0	N1	IMS-CCR
24.229	330	2	Rel-5	F	NP-030052	N1-030288	approved	Clarifications for setting	5.3.0	5.4.0	N1	IMS-CCR
24.229	331	2	Rel-5	F	NP-030052	N1-030289	approved	Handling of the P-	5.3.0	5.4.0	N1	IMS-CCR
24.229	333	3	Rel-5	F	NP-030052	N1-030310	approved	Removal of P-	5.3.0	5.4.0	N1	IMS-CCR
24.229	334	-	Rel-5	F	NP-030052	N1-030182	approved	P-CSCF general	5.3.0	5.4.0	N1	IMS-CCR
24.229	335	2	Rel-5	F	NP-030052	N1-030281	approved	Usage of Contact in	5.3.0	5.4.0	N1	IMS-CCR
24.229	337	-	Rel-5	F	NP-030052	N1-030193	approved	Usage of P-Asserted-	5.3.0	5.4.0	N1	IMS-CCR
24.229	339	2	Rel-5	F	NP-030052	N1-030285	approved	Authorization for	5.3.0	5.4.0	N1	IMS-CCR
24.229	341	1	Rel-5	F	NP-030052	N1-030284	approved	P-CSCF subscription to	5.3.0	5.4.0	N1	IMS-CCR
49.008	001	-	Rel-4	A	NP-030040	N1-030085	approved	Corrections to the list	4.0.1	4.1.0	N1	GSM/UMTS interworking
49.008	002	-	Rel-5	A	NP-030040	N1-030086	approved	Corrections to the list	5.0.0	5.1.0	N1	GSM/UMTS interworking
24.008	734	1	R99	F	NP-030043	N1-030207	revised	MS RAC for UMTS	3.14.0		N1	TEI
24.008	735	1	Rel-4	A	NP-030043	N1-030208	revised	MS RAC for UMTS	4.9.0		N1	TEI
24.008	736	1	Rel-5	A	NP-030043	N1-030209	revised	MS RAC for UMTS	5.6.0		N1	TEI
24.228	094	2	Rel-5	C	NP-030053	N1-030257	rejected	Allowing IMS access	5.3.0		N1	IMS-CCR
24.229	299	2	Rel-5	C	NP-030053	N1-030258	rejected	Allowing IMS access	5.3.0		N1	IMS-CCR
24.229	321	2	Rel-5	F	NP-030054	N1-030267	rejected	Signalling PDP Context	5.3.0		N1	IMS-CCR
23.078	491	2	Rel-5	F	NP-030088	N2-030125	approved	Handling of a Stand	5.2.0	5.3.0	N2	CAMEL4
23.078	513	-	Rel-5	F	NP-030088	N2-030013	approved	Handling of	5.2.0	5.3.0	N2	CAMEL4
23.078	516	2	Rel-5	F	NP-030088	N2-030157	approved	Correction to CAMEL	5.2.0	5.3.0	N2	CAMEL4
23.078	517	1	Rel-5	F	NP-030088	N2-030113	approved	Correction to implicit	5.2.0	5.3.0	N2	CAMEL4
23.078	518	3	Rel-5	F	NP-030088	N2-030160	approved	HLR handling when	5.2.0	5.3.0	N2	CAMEL4
23.078	520	1	Rel-5	F	NP-030088	N2-030114	approved	Correction to CTR	5.2.0	5.3.0	N2	CAMEL4
23.078	521	1	R99	F	NP-030085	N2-030115	approved	Correction to SRI	3.15.0	3.16.0	N2	CAMEL3
23.078	526	-	Rel-5	F	NP-030089	N2-030032	approved	Consistent prefix	5.2.0	5.3.0	N2	CAMEL4

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
23.078	527	1	R99	F	NP-030068	N2-030104	approved	Correction to	3.15.0	3.16.0	N2	CAMEL3
23.078	528	1	Rel-4	A	NP-030068	N2-030105	approved	Correction to	4.7.0	4.8.0	N2	CAMEL3
23.078	529	-	Rel-5	A	NP-030068	N2-030055	approved	Correction to	5.2.0	5.3.0	N2	CAMEL3
23.078	531	-	Rel-5	F	NP-030089	N2-030057	approved	Alignment of signal	5.2.0	5.3.0	N2	CAMEL4
23.078	532	1	R99	F	NP-030085	N2-030121	approved	Introduction of	3.15.0	3.16.0	N2	CAMEL3
23.078	533	2	Rel-5	F	NP-030089	N2-030154	approved	Buffering of TC	5.2.0	5.3.0	N2	CAMEL4
23.078	534	-	Rel-5	F	NP-030089	N2-030066	approved	Disallowing ACH-	5.2.0	5.3.0	N2	CAMEL4
23.078	536	1	Rel-5	F	NP-030089	N2-030148	approved	Correction to timer	5.2.0	5.3.0	N2	CAMEL4
23.078	538	-	Rel-5	F	NP-030089	N2-030070	approved	Correction to Call	5.2.0	5.3.0	N2	CAMEL4
23.078	539	1	R99	F	NP-030085	N2-030106	approved	Inconsistency in Call	3.15.0	3.16.0	N2	CAMEL3
23.078	540	1	Rel-4	A	NP-030085	N2-030107	approved	Inconsistency in Call	4.7.0	4.8.0	N2	CAMEL3
23.078	541	1	Rel-5	A	NP-030085	N2-030108	approved	Inconsistency in Call	5.2.0	5.3.0	N2	CAMEL3
23.078	542	1	Rel-5	F	NP-030089	N2-030152	approved	Handling of AC and	5.2.0	5.3.0	N2	CAMEL4
23.078	543	-	Rel-4	A	NP-030085	N2-030116	approved	Correction to SRI	4.7.0	5.3.0	N2	CAMEL3
23.078	544	-	Rel-5	A	NP-030085	N2-030117	approved	Correction to SRI	5.2.0	5.3.0	N2	CAMEL3
23.078	545	-	Rel-4	A	NP-030085	N2-030122	approved	Introduction of	4.7.0	4.8.0	N2	CAMEL3
23.078	546	-	Rel-5	A	NP-030085	N2-030123	approved	Introduction of	5.2.0	5.3.0	N2	CAMEL3
23.278	027	1	Rel-5	F	NP-030090	N2-030150	approved	Implementing of	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	028	1	Rel-5	F	NP-030090	N2-030124	approved	Introduction of	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	029	-	Rel-5	F	NP-030090	N2-030079	approved	Correction of imcnSSF	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	030	-	Rel-5	F	NP-030090	N2-030080	approved	Incorrect procedure	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	031	-	Rel-5	F	NP-030090	N2-030081	approved	Incorrect procedures	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	032	-	Rel-5	F	NP-030091	N2-030082	approved	Sending of provisional	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	033	-	Rel-5	F	NP-030091	N2-030083	approved	Incorrect SIP response	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	035	1	Rel-5	F	NP-030091	N2-030143	approved	Corrections in	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	036	-	Rel-5	F	NP-030091	N2-030086	approved	Corrections in the	5.1.0	5.2.0	N2	IMS-CAMEL
23.278	039	-	Rel-5	F	NP-030091	N2-030155	approved	Inconsistency in Call	5.1.0	5.2.0	N2	IMS-CAMEL
29.078	298	1	Rel-5	F	NP-030087	N2-030118	approved	Correction to Call	5.2.0	5.3.0	N2	CAMEL4
29.078	299	1	R99	F	NP-030086	N2-030100	approved	ASN.1 syntax basic	3.14.0	3.15.0	N2	CAMEL3
29.078	300	-	Rel-4	A	NP-030086	N2-030035	approved	ASN.1 syntax basic	4.7.0	4.8.0	N2	CAMEL3
29.078	301	-	Rel-5	F	NP-030087	N2-030036	approved	ASN.1 syntax basic	5.2.0	5.3.0	N2	CAMEL4
29.078	302	-	Rel-5	F	NP-030087	N2-030062	approved	ASN operation	5.2.0	5.3.0	N2	CAMEL4
29.078	304	1	Rel-5	F	NP-030087	N2-030110	approved	Correction to ASN.1	5.2.0	5.3.0	N2	CAMEL4
29.078	305	1	Rel-5	F	NP-030087	N2-030147	approved	Disallowing ACH-	5.2.0	5.3.0	N2	CAMEL4
29.078	306	2	Rel-5	F	NP-030087	N2-030156	approved	Missing parameter	5.2.0	5.3.0	N2	CAMEL4
29.078	307	-	Rel-5	F	NP-030087	N2-030094	approved	Adding unknownCSId	5.2.0	5.3.0	N2	CAMEL4
29.278	004	-	Rel-5	F	NP-030090	N2-030037	approved	ASN.1 syntax basic	5.1.0	5.2.0	N2	IMS-CAMEL
09.61	A047	1	R97	F	NP-030074	N3-030120	approved	Correction of	6.9.0	6.10.0	N3	TEI
09.61	A048	1	R98	A	NP-030074	N3-030121	approved	Correction of	7.8.0	7.9.0	N3	TEI
23.910	044	1	Rel-4	F	NP-030076	N3-030116	approved	Use of Nb UP protocol	4.6.0	4.7.0	N3	CSSPLIT
23.910	045	1	Rel-5	A	NP-030076	N3-030117	approved	Use of Nb UP protocol	5.2.0	5.3.0	N3	CSSPLIT

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
24.022	008	1	Rel-5	F	NP-030074	N3-030125	approved	Correction of	5.1.0	5.2.0	N3	TEI
27.001	083	1	Rel-4	F	NP-030075	N3-030145	approved	Removal of S	4.8.0	4.9.0	N3	TEI
27.001	084	1	Rel-5	F	NP-030075	N3-030146	approved	Removal of S	5.4.0	5.5.0	N3	TEI
29.007	065	-	Rel-5	F	NP-030077	N3-030032	approved	Correction of	5.4.0	5.5.0	N3	TEI
29.007	066	1	Rel-4	F	NP-030076	N3-030118	approved	Use of Nb UP protocol	4.6.0	4.7.0	N3	CSSPLIT
29.007	067	1	Rel-5	A	NP-030076	N3-030119	approved	Use of Nb UP protocol	5.4.0	5.5.0	N3	CSSPLIT
29.061	080	-	Rel-5	F	NP-030079	N3-030046	approved	Terminology correction	5.4.0	5.5.0	N3	E2EQoS-W
29.061	081	1	R99	A	NP-030074	N3-030122	approved	Correction of	3.11.0	3.12.0	N3	TEI
29.061	082	1	Rel-4	A	NP-030074	N3-030123	approved	Correction of	4.6.0	4.7.0	N3	TEI
29.061	083	1	Rel-5	A	NP-030074	N3-030124	approved	Correction of	5.4.0	5.5.0	N3	TEI
29.207	073	2	Rel-5	F	NP-030080	N3-030165	approved	Terminology	5.2.0	5.3.0	N3	E2EQoS-W
29.207	075	-	Rel-5	F	NP-030080	N3-030047	approved	Invalid Flow ID	5.2.0	5.3.0	N3	E2EQoS-W
29.207	076	1	Rel-5	F	NP-030080	N3-030127	approved	Clarification to binding	5.2.0	5.3.0	N3	E2EQoS-W
29.207	077	1	Rel-5	F	NP-030080	N3-030132	approved	Restrictions to PDP	5.2.0	5.3.0	N3	E2EQoS-W
29.207	078	1	Rel-5	F	NP-030080	N3-030128	approved	Mechanism for	5.2.0	5.3.0	N3	E2EQoS-W
29.207	081	3	Rel-5	F	NP-030080	N3-030181	approved	Reject change of token	5.2.0	5.3.0	N3	E2EQoS-W
29.207	084	2	Rel-5	F	NP-030080	N3-030167	approved	Clarification on TFT	5.2.0	5.3.0	N3	E2EQoS-W
29.207	088	-	Rel-5	F	NP-030080	N3-030113	approved	Correction of what is	5.2.0	5.3.0	N3	E2EQoS-W
29.208	019	3	Rel-5	F	NP-030081	N3-030182	approved	mapping rules for QoS	5.2.0	5.3.0	N3	E2EQoS-W
29.208	021	2	Rel-5	F	NP-030081	N3-030171	approved	Correction of a clash	5.2.0	5.3.0	N3	E2EQoS-W
29.208	022	-	Rel-5	F	NP-030081	N3-030074	approved	Addition of the SDP	5.2.0	5.3.0	N3	E2EQoS-W
29.208	025	2	Rel-5	F	NP-030081	N3-030173	approved	Adding of the Resume	5.2.0	5.3.0	N3	E2EQoS-W
29.208	026	1	Rel-5	F	NP-030081	N3-030137	approved	Clarification on PDP	5.2.0	5.3.0	N3	E2EQoS-W
29.208	029	2	Rel-5	F	NP-030081	N3-030169	approved	Correction and	5.2.0	5.3.0	N3	E2EQoS-W
29.208	031	-	Rel-5	F	NP-030081	N3-030141	approved	Corrections in the table	5.2.0	5.3.0	N3	E2EQoS-W
29.415	006	1	Rel-4	F	NP-030076	N3-030174	approved	No backward	4.2.0	4.3.0	N3	CSSPLIT
29.415	007	1	Rel-5	A	NP-030076	N3-030175	approved	No backward	5.0.0	5.1.0	N3	CSSPLIT
23.172	007	1	Rel-5	F	NP-030078	N3-030133	rejected	Two-step HLR	5.1.0		N3	SCUDIF
09.02	A332	1	R96	F	NP-030098	N4-030281	approved	Change of SS-Code	5.17.1	5.18.0	N4	TEI
09.02	A333	1	R97	A	NP-030098	N4-030282	approved	Change of SS-Code	6.12.0	6.13.0	N4	TEI
09.02	A334	1	R98	A	NP-030098	N4-030283	approved	Change of SS-Code	7.12.0	7.13.0	N4	TEI
23.008	065	1	Rel-5	F	NP-030101	N4-030241	approved	Clarification of IMPU	5.3.0	5.4.0	N4	IMS-CCR
23.008	067	1	Rel-5	F	NP-030101	N4-030251	approved	Definition of the	5.3.0	5.4.0	N4	IMS-CCR
23.011	003	3	Rel-6	C	NP-030112	N4-030235	approved	Introducing SMS Call	5.0.0	6.0.0	N4	TEI6
23.016	030	1	Rel-6	C	NP-030112	N4-030161	approved	Introducing SMS Call	5.1.0	6.0.0	N4	TEI6
23.018	116	1	R99	F	NP-030095	N4-030327	approved	Correction to wrong	3.11.0	3.12.0	N4	CAMEL3
23.018	117	-	Rel-4	A	NP-030095	N4-030328	approved	Correction to wrong	4.6.0	4.7.0	N4	CAMEL3
23.018	118	-	Rel-5	A	NP-030095	N4-030329	approved	Correction to wrong	5.5.0	5.6.0	N4	CAMEL3
23.067	011	1	Rel-6	C	NP-030113	N4-030228	approved	Optional additional	5.0.0	6.0.0	N4	TEI6
23.081	007	1	Rel-5	F	NP-030103	N4-030206	approved	Correction to the	5.1.0	5.2.0	N4	CAMEL4
23.088	003	1	Rel-6	C	NP-030112	N4-030162	approved	Introducing SMS Call	5.0.0	6.0.0	N4	TEI6

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
23.153	052	-	Rel-4	F	NP-030097	N4-030105	approved	Setting Of Guaranteed	4.6.0	4.7.0	N4	OoBTC
23.153	053	-	Rel-5	A	NP-030097	N4-030106	approved	Setting Of Guaranteed	5.3.0	5.4.0	N4	OoBTC
23.205	039	1	Rel-5	F	NP-030108	N4-030275	approved	Bearer Release for lu	5.4.0	5.5.0	N4	TEI5
24.088	001	2	Rel-6	C	NP-030112	N4-030236	approved	Introducing SMS Call	5.0.0	6.0.0	N4	TEI6
29.002	500	3	Rel-5	F	NP-030104	N4-030253	approved	Addition of Positioning	5.4.0	5.5.0	N4	LCS1
29.002	509	2	Rel-6	C	NP-030112	N4-030234	approved	Introduction of Call	6.0.0	6.1.0	N4	TEI6
29.002	523	3	Rel-5	F	NP-030110	N4-030324	approved	Editorial clean-up of	5.4.0	5.5.0	N4	TEI5
29.002	524	3	Rel-6	A	NP-030110	N4-030325	approved	Editorial clean-up of	6.0.0	6.1.0	N4	TEI5
29.002	526	-	Rel-6	F	NP-030111	N4-030061	approved	Incrementing ASN.1	6.0.0	6.1.0	N4	TEI6
29.002	527	-	Rel-5	F	NP-030104	N4-030062	approved	LCS diagnostic	5.4.0	5.5.0	N4	LCS1
29.002	528	-	Rel-6	A	NP-030104	N4-030063	approved	LCS diagnostic	6.0.0	6.1.0	N4	LCS1
29.002	529	-	Rel-6	F	NP-030114	N4-030054	approved	Addition of LCS	6.0.0	6.1.0	N4	LCS2
29.002	530	1	R99	F	NP-030099	N4-030298	approved	Correction to the	3.15.0	3.16.0	N4	Multicall
29.002	531	1	Rel-4	A	NP-030099	N4-030299	approved	Correction to the	4.10.0	4.11.0	N4	Multicall
29.002	532	1	Rel-5	A	NP-030099	N4-030300	approved	Correction to the	5.4.0	5.5.0	N4	Multicall
29.002	533	1	Rel-6	A	NP-030099	N4-030301	approved	Correction to the	6.0.0	6.1.0	N4	Multicall
29.002	538	2	R99	F	NP-030100	N4-030302	approved	Handover of Group	3.15.0	3.16.0	N4	TEI
29.002	539	2	Rel-4	A	NP-030100	N4-030303	approved	Handover of Group	4.10.0	4.11.0	N4	TEI
29.002	540	2	Rel-5	A	NP-030100	N4-030304	approved	Handover of Group	5.4.0	5.5.0	N4	TEI
29.002	541	2	Rel-6	A	NP-030100	N4-030305	approved	Handover of Group	6.0.0	6.1.0	N4	TEI
29.002	542	3	R99	F	NP-030068		approved	Correction to	3.15.0	3.16.0	N4	CAMEL3
29.002	543	2	Rel-4	A	NP-030068		approved	Correction to	4.10.0	4.11.0	N4	CAMEL3
29.002	544	2	Rel-5	A	NP-030068		approved	Correction to	5.4.0	5.5.0	N4	CAMEL3
29.002	545	2	Rel-6	A	NP-030068		approved	Correction to	6.0.0	6.1.0	N4	CAMEL3
29.002	548	1	R99	A	NP-030098	N4-030284	approved	Change of SS-Code	3.15.0	3.16.0	N4	TEI
29.002	549	1	Rel-4	A	NP-030098	N4-030285	approved	Change of SS-Code	4.10.0	4.11.0	N4	TEI
29.002	550	1	Rel-5	A	NP-030098	N4-030286	approved	Change of SS-Code	5.4.0	5.5.0	N4	TEI
29.002	551	1	Rel-6	A	NP-030098	N4-030287	approved	Change of SS-Code	6.0.0	6.1.0	N4	TEI
29.002	558	1	Rel-5	F	NP-030109	N4-030288	approved	Missing of "Continue	5.4.0	5.5.0	N4	TEI5
29.002	559	1	Rel-6	A	NP-030109	N4-030289	approved	Missing of "Continue	6.0.0	6.1.0	N4	TEI5
29.002	562	1	Rel-5	F	NP-030105	N4-030296	approved	Alignment of TS 29.002	5.4.0	5.5.0	N4	E2EQoS
29.002	563	1	Rel-6	A	NP-030105	N4-030297	approved	Alignment of TS 29.002	6.0.0	6.1.0	N4	E2EQoS
29.002	566	1	Rel-6	F	NP-030114	N4-030222	approved	Intoduction of MSC	6.0.0	6.1.0	N4	LCS2
29.002	568	2	Rel-6	A	NP-030104	N4-030254	approved	Addition of Positioning	6.0.0	6.1.0	N4	LCS1
29.060	384	1	R99	F	NP-030096	N4-030270	approved	Reinstatement of	3.15.0	3.16.0	N4	GTP enhancement
29.060	385	1	Rel-4	A	NP-030096	N4-030271	approved	Reinstatement of	4.6.0	4.7.0	N4	GTP enhancement
29.060	386	1	Rel-5	A	NP-030096	N4-030272	approved	Reinstatement of	5.4.0	5.5.0	N4	GTP enhancement
29.060	387	-	Rel-5	F	NP-030107	N4-030064	approved	Correction on handling	5.4.0	5.5.0	N4	TEI5
29.060	388	-	Rel-5	F	NP-030107	N4-030082	approved	Removal of the N3-	5.4.0	5.5.0	N4	TEI5
29.060	389	-	Rel-5	F	NP-030107	N4-030083	approved	Correction of presence	5.4.0	5.5.0	N4	TEI5
29.060	390	1	Rel-6	B	NP-030114	N4-030224	approved	Intoduction of SGSN	5.4.0	6.0.0	N4	LCS2

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
29.060	395	3	Rel-5	F	NP-030107	N4-030323	approved	TEID for GTF-C	5.4.0	5.5.0	N4	GTP enhancement
29.060	399	-	Rel-5	F	NP-030107	N4-030159	approved	Correction of GTP	5.4.0	5.5.0	N4	TEI5
29.060	402	2	Rel-5	F	NP-030107	N4-030320	approved	IPv4 and IPv6 form of	5.4.0	5.5.0	N4	TEI5
29.060	403	-	Rel-6	B	NP-030114	N4-030265	approved	Indroduction of SGSN	5.4.0	6.0.0	N4	LCS2
29.228	024	1	Rel-5	F	NP-030101	N4-030240	approved	Clarification of the	5.2.0	5.3.0	N4	IMS-CCR
29.228	025	1	Rel-5	F	NP-030101	N4-030238	approved	Clarification of service	5.2.0	5.3.0	N4	IMS-CCR
29.228	026	-	Rel-5	F	NP-030101	N4-030014	approved	Error in definition of	5.2.0	5.3.0	N4	IMS-CCR
29.228	027	-	Rel-5	F	NP-030101	N4-030015	approved	Deletion of Annex F	5.2.0	5.3.0	N4	IMS-CCR
29.228	028	-	Rel-5	F	NP-030101	N4-030016	approved	Filter ID field removal	5.2.0	5.3.0	N4	IMS-CCR
29.228	029	-	Rel-5	F	NP-030101	N4-030017	approved	Clarification of User-	5.2.0	5.3.0	N4	IMS-CCR
29.228	030	1	Rel-5	F	NP-030101	N4-030242	approved	Clarification of IMPU	5.2.0	5.3.0	N4	IMS-CCR
29.228	031	1	Rel-5	F	NP-030101	N4-030243	approved	Update TS 29.228 after	5.2.0	5.3.0	N4	IMS-CCR
29.228	032	1	Rel-5	F	NP-030101	N4-030245	approved	The default public user	5.2.0	5.3.0	N4	IMS-CCR
29.228	033	1	Rel-5	F	NP-030101	N4-030246	approved	Replacement of the	5.2.0	5.3.0	N4	IMS-CCR
29.228	034	2	Rel-5	F	NP-030101	N4-030247	approved	Corrections to service	5.2.0	5.3.0	N4	IMS-CCR
29.228	035	2	Rel-5	F	NP-030101	N4-030312	approved	Clarification on the re-	5.2.0	5.3.0	N4	IMS-CCR
29.228	037	3	Rel-5	F	NP-030101	N4-030314	approved	Handling of non	5.2.0	5.3.0	N4	IMS-CCR
29.228	038	1	Rel-5	F	NP-030101	N4-030261	approved	Change of SPI to SPT	5.2.0	5.3.0	N4	IMS-CCR
29.228	040	1	Rel-5	F	NP-030101	N4-030252	approved	Definition of the	5.2.0	5.3.0	N4	IMS-CCR
29.229	012	1	Rel-5	F	NP-030101	N4-030244	approved	Update TS 29.229 after	5.2.0	5.3.0	N4	IMS-CCR
29.229	013	-	Rel-5	F	NP-030101	N4-030077	approved	Replacement of the	5.2.0	5.3.0	N4	IMS-CCR
29.229	014	-	Rel-5	F	NP-030101	N4-030079	approved	Correction to the	5.2.0	5.3.0	N4	IMS-CCR
29.229	015	1	Rel-5	F	NP-030101	N4-030277	approved	Clarification on the re-	5.2.0	5.3.0	N4	IMS-CCR
29.229	018	1	Rel-5	F	NP-030101	N4-030237	approved	Handling of non	5.2.0	5.3.0	N4	IMS-CCR
29.232	053	-	Rel-5	F	NP-030108	N4-030107	approved	Update to 3GUP	5.4.0	5.5.0	N4	CSSPLIT
29.232	054	1	Rel-5	F	NP-030108	N4-030278	approved	Update to 3GUP	5.4.0	5.5.0	N4	CSSPLIT
29.328	012	3	Rel-5	F	NP-030102	N4-030315	approved	Initial Filter Criteria	5.2.1	5.3.0	N4	IMS-CCR
29.328	015	-	Rel-5	F	NP-030102	N4-030022	approved	Deletion of Annex E	5.2.1	5.3.0	N4	IMS-CCR
29.328	016	2	Rel-5	F	NP-030102	N4-030262	approved	Update TS 29.328 after	5.2.1	5.3.0	N4	IMS-CCR
29.328	017	1	Rel-5	F	NP-030102	N4-030266	approved	Correction to	5.2.1	5.3.0	N4	IMS-CCR
29.328	018	2	Rel-5	F	NP-030102	N4-030267	approved	Clarification on Sh	5.2.1	5.3.0	N4	IMS-CCR
29.328	019	1	Rel-5	F	NP-030102	N4-030268	approved	Change of SPI to SPT	5.2.1	5.3.0	N4	IMS-CCR
29.329	005	1	Rel-5	F	NP-030102	N4-030057	approved	Initial Filter Criteria	5.2.0	5.3.0	N4	IMS-CCR
29.329	007	2	Rel-5	F	NP-030102	N4-030263	approved	Update TS 29.329 after	5.2.0	5.3.0	N4	IMS-CCR
29.329	008	-	Rel-5	F	NP-030102	N4-030103	approved	Correction to	5.2.0	5.3.0	N4	IMS-CCR
29.329	009	-	Rel-5	F	NP-030102	N4-030123	approved	Clarification on Sh	5.2.0	5.3.0	N4	IMS-CCR
29.329	011	-	Rel-5	F	NP-030102	N4-030264	approved	Missing code-point in	5.2.0	5.3.0	N4	IMS-CCR
29.329	013	-	Rel-5	F	NP-030102	N4-030316	approved	RegistrationState	5.2.0	5.3.0	N4	IMS-CCR
29.002	560	2	Rel-5	F	NP-030106	N4-030321	rejected	Two-step HLR	5.4.0		N4	SCUDIF
29.002	561	2	Rel-6	A	NP-030106	N4-030322	rejected	Two-step HLR	6.0.0		N4	SCUDIF
29.198-02	023	-	Rel-4	F	NP-030018	N5-021096	approved	Correction to defintion	4.4.0	4.5.0	N5	OSA1

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
29.198-02	024	-	Rel-4	F	NP-030018	N5-021129	approved	Clarification on	4.4.0	4.5.0	N5	OSA1
29.198-02	025	-	Rel-5	A	NP-030018	N5-021130	approved	Clarification on	5.1.1	5.2.0	N5	OSA1
29.198-02	026	-	Rel-4	F	NP-030018	N5-021119	approved	Correction to	4.4.0	4.5.0	N5	OSA1
29.198-02	027	-	Rel-5	A	NP-030018	N5-021120	approved	Correction to	5.1.1	5.2.0	N5	OSA1
29.198-02	028	-	Rel-4	F	NP-030018	N5-030042	approved	Addition of Support of	4.4.0	4.5.0	N5	OSA1
29.198-02	029	-	Rel-5	A	NP-030018	N5-030043	approved	Addition of Support of	5.1.1	5.2.0	N5	OSA1
29.198-02	030	-	Rel-5	F	NP-030027	N5-030081	approved	Addition of Numbered	5.1.1	5.2.0	N5	OSA2
29.198-02	031	-	Rel-5	F	NP-030027	N5-030066	approved	Correction of Exception	5.1.1	5.2.0	N5	OSA2
29.198-02	032	-	Rel-5	F	NP-030027	N5-030055	approved	Promotion of	5.1.1	5.2.0	N5	OSA2
29.198-03	060	-	Rel-4	F	NP-030019	N5-020895	approved	Correction of status of	4.6.0	4.7.0	N5	OSA1
29.198-03	061	-	Rel-4	F	NP-030019	N5-020896	approved	Correction of status of	4.6.0	4.7.0	N5	OSA1
29.198-03	062	-	Rel-4	F	NP-030019	N5-021070	approved	Correction to Initial	4.6.0	4.7.0	N5	OSA1
29.198-03	063	-	Rel-5	A	NP-030019	N5-021071	approved	Correction to Initial	5.1.0	5.2.0	N5	OSA1
29.198-03	064	-	Rel-4	F	NP-030019	N5-021131	approved	Enable	4.6.0	4.7.0	N5	OSA1
29.198-03	065	-	Rel-5	A	NP-030019	N5-021132	approved	Enable	5.1.0	5.2.0	N5	OSA1
29.198-03	066	-	Rel-4	F	NP-030019	N5-021086	approved	Correction of	4.6.0	4.7.0	N5	OSA1
29.198-03	067	-	Rel-5	A	NP-030019	N5-021087	approved	Correction of	5.1.0	5.2.0	N5	OSA1
29.198-03	068	-	Rel-5	F	NP-030028	N5-020882	approved	Correction to	5.1.0	5.2.0	N5	OSA2
29.198-03	069	-	Rel-5	F	NP-030028	N5-020897	approved	Correction of status of	5.1.0	5.2.0	N5	OSA2
29.198-03	070	-	Rel-5	F	NP-030028	N5-020898	approved	Correction of status of	5.1.0	5.2.0	N5	OSA2
29.198-03	071	-	Rel-5	F	NP-030028	N5-021143	approved	Correction of status of	5.1.0	5.2.0	N5	OSA2
29.198-03	072	-	Rel-4	F	NP-030019	N5-020894	approved	Correction of status of	4.6.0	4.7.0	N5	OSA1
29.198-03	073	-	Rel-4	F	NP-030019	N5-030075	approved	Add Initial Load	4.6.0	4.7.0	N5	OSA1
29.198-03	074	-	Rel-5	A	NP-030019	N5-030076	approved	Add Initial Load	5.1.0	5.2.0	N5	OSA1
29.198-03	075	-	Rel-5	F	NP-030028	N5-030046	approved	Adding the	5.1.0	5.2.0	N5	OSA2
29.198-03	076	-	Rel-5	F	NP-030028	N5-030082	approved	Remove race condition	5.1.0	5.2.0	N5	OSA2
29.198-03	077	-	Rel-5	F	NP-030028	N5-030083	approved	Change reference to	5.1.0	5.2.0	N5	OSA2
29.198-04	058	-	Rel-4	F	NP-030020	N5-020888	approved	Correction of status of	4.5.0	4.6.0	N5	OSA1
29.198-04	059	-	Rel-4	F	NP-030020	N5-021052	approved	Correction to	4.5.0	4.6.0	N5	OSA1
29.198-04	060	-	Rel-4	F	NP-030020	N5-021063	approved	Correction to	4.5.0	4.6.0	N5	OSA1
29.198-04	061	-	Rel-4	F	NP-030020	N5-021064	approved	Correction to User	4.5.0	4.6.0	N5	OSA1
29.198-04	062	-	Rel-4	F	NP-030020	N5-021079	approved	Correction to remove	4.5.0	4.6.0	N5	OSA1
29.198-04	063	-	Rel-4	F	NP-030020	N5-021121	approved	Correction to	4.5.0	4.6.0	N5	OSA1
29.198-04	064	-	Rel-4	F	NP-030020	N5-030048	approved	Correction of status of	4.5.0	4.6.0	N5	OSA1
29.198-04-1	003	-	Rel-5	F	NP-030029	N5-020891	approved	Correction to	5.1.0	5.2.0	N5	OSA2
29.198-04-1	004	-	Rel-5	A	NP-030020	N5-021080	approved	Correction to remove	5.1.0	5.2.0	N5	OSA1
29.198-04-2	003	-	Rel-5	A	NP-030020	N5-020873	approved	Correction of status of	5.1.0	5.2.0	N5	OSA1
29.198-04-2	004	-	Rel-5	A	NP-030020	N5-021065	approved	Correction to Prepaid	5.1.0	5.2.0	N5	OSA1
29.198-04-2	005	-	Rel-5	A	NP-030020	N5-021122	approved	Correction to	5.1.0	5.2.0	N5	OSA1
29.198-04-3	007	-	Rel-5	F	NP-030031	N5-020874	approved	Correction of status of	5.1.0	5.2.0	N5	OSA2
29.198-04-3	008	-	Rel-5	F	NP-030031	N5-021038	approved	Inconsistent description	5.1.0	5.2.0	N5	OSA2

Spec	CR	Rev	Phase	Cat	NP doc	WG doc	TSG status	Subject	CR	Resulti	WG	Workitem
29.198-04-3	009	-	Rel-5	A	NP-030020	N5-021053	approved	Correction to	5.1.0	5.2.0	N5	OSA1
29.198-04-3	010	-	Rel-5	F	NP-030130	N5-021149	approved	Correction of definition	5.1.0	5.2.0	N5	OSA2
29.198-04-4	002	-	Rel-5	F	NP-030032	N5-020892	approved	Correction of status of	5.1.0	5.2.0	N5	OSA2
29.198-04-4	003	-	Rel-5	F	NP-030032	N5-030067	approved	Correction of	5.1.0	5.2.0	N5	OSA2
29.198-04-4	004	-	Rel-5	F	NP-030032	N5-030094	approved	Addition of missing	5.1.0	5.2.0	N5	OSA2
29.198-05	022	-	Rel-4	F	NP-030021	N5-021066	approved	Correction to User	4.5.0	4.6.0	N5	OSA1
29.198-05	023	-	Rel-5	A	NP-030021	N5-021067	approved	Correction to User	5.1.0	5.2.0	N5	OSA1
29.198-05	024	-	Rel-4	F	NP-030021	N5-021072	approved	Correction to	4.5.0	4.6.0	N5	OSA1
29.198-05	025	-	Rel-5	A	NP-030021	N5-021073	approved	Correction to	5.1.0	5.2.0	N5	OSA1
29.198-05	026	-	Rel-4	F	NP-030021	N5-021133	approved	Inconsistent description	4.5.0	4.6.0	N5	OSA1
29.198-05	027	-	Rel-4	F	NP-030021	N5-021145	approved	Correction of status of	4.5.0	4.6.0	N5	OSA1
29.198-05	028	-	Rel-5	A	NP-030021	N5-021147	approved	Addition of status of	5.1.0	5.2.0	N5	OSA1
29.198-05	029	-	Rel-5	F	NP-030033	N5-021037	approved	Inconsistent description	5.1.0	5.2.0	N5	OSA2
29.198-05	030	-	Rel-4	F	NP-030021	N5-030051	approved	Corrections to User	4.5.0	4.6.0	N5	OSA1
29.198-05	031	-	Rel-5	A	NP-030021	N5-030052	approved	Corrections to User	5.1.0	5.2.0	N5	OSA1
29.198-05	032	-	Rel-4	F	NP-030021	N5-030077	approved	Correction of User	4.5.0	4.6.0	N5	OSA1
29.198-05	033	-	Rel-5	A	NP-030021	N5-030078	approved	Correction of User	5.1.0	5.2.0	N5	OSA1
29.198-06	019	-	Rel-4	F	NP-030022	N5-021134	approved	Correction of status of	4.4.0	4.5.0	N5	OSA1
29.198-06	020	-	Rel-5	A	NP-030022	N5-021135	approved	Addition of status of	5.1.0	5.2.0	N5	OSA1
29.198-07	009	-	Rel-4	F	NP-030023	N5-021091	approved	Correction to Class	4.4.0	4.5.0	N5	OSA1
29.198-07	010	-	Rel-4	F	NP-030023	N5-021016	approved	Correction of status of	4.4.0	4.5.0	N5	OSA1
29.198-07	011	-	Rel-5	A	NP-030023	N5-021136	approved	Addition of status of	5.2.0	5.3.0	N5	OSA1
29.198-07	012	-	Rel-4	F	NP-030023	N5-021123	approved	Correction to	4.4.0	4.5.0	N5	OSA1
29.198-07	013	-	Rel-5	A	NP-030023	N5-021124	approved	Correction to	5.2.0	5.3.0	N5	OSA1
29.198-08	018	-	Rel-4	F	NP-030024	N5-021017	approved	Correction of status of	4.5.0	4.6.0	N5	OSA1
29.198-08	019	-	Rel-5	A	NP-030024	N5-021024	approved	Addition of status of	5.1.0	5.2.0	N5	OSA1
29.198-08	020	-	Rel-4	F	NP-030024	N5-021125	approved	Corrections to Data	4.5.0	4.6.0	N5	OSA1
29.198-08	021	-	Rel-5	A	NP-030024	N5-021126	approved	Corrections to data	5.1.0	5.2.0	N5	OSA1
29.198-08	022	-	Rel-5	F	NP-030034	N5-021039	approved	Inconsistent description	5.1.0	5.2.0	N5	OSA2
29.198-08	023	-	Rel-5	F	NP-030034	N5-021116	approved	Promotion of	5.1.0	5.2.0	N5	OSA2
29.198-11	015	-	Rel-4	F	NP-030025	N5-021127	approved	Correction to	4.3.0	4.4.0	N5	OSA1
29.198-11	016	-	Rel-5	A	NP-030025	N5-021128	approved	Correction to	5.1.0	5.2.0	N5	OSA1
29.198-11	017	-	Rel-4	F	NP-030025	N5-021146	approved	Correction of status of	4.3.0	4.4.0	N5	OSA1
29.198-11	018	-	Rel-5	A	NP-030025	N5-021148	approved	Addition of status of	5.1.0	5.2.0	N5	OSA1
29.198-11	019	-	Rel-5	F	NP-030035	N5-021040	approved	Inconsistent description	5.1.0	5.2.0	N5	OSA2
29.198-12	020	-	Rel-4	F	NP-030026	N5-021137	approved	Correction of status of	4.3.0	4.4.0	N5	OSA1
29.198-12	021	-	Rel-5	A	NP-030026	N5-021138	approved	Addition of status of	5.1.0	5.2.0	N5	OSA1
29.198-04-2	006	-	Rel-5	F	NP-030030	N5-021149	withdrawn	Correction of definition	5.1.0		N5	OSA2

Note:- Updated from master Spec_status dbase on 24th March 2003

For latest details please see the 3GPP specifications database at ftp://ftp.3gpp.org/Information/Databases/Spec_Status/

ANNEX B Tdoc List with Status

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030001	2	AGENDA	DRAFT Agenda for CN#19 Meeting		CN Chair			APPROVED
NP-030002	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #19: beginning of day 1		CN vice-chairman			NOTED
NP-030003	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #19: end of day 2		CN vice-chairman			NOTED
NP-030004	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #19: end of day 3		CN vice-chairman			NOTED
NP-030005	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #19: end of day 4		CN vice-chairman			NOTED
NP-030006	6.4.1	REPORT	Status report from CN4 to TSG-CN Plenary Meeting #19		CN4 chairman			NOTED
NP-030007	4.1	REPORT	Draft Meeting Report from CN#17		MCC			APPROVED
NP-030008	12	WORK PLAN	Latest version of 3GPP Workplan		MCC			NOTED
NP-030009	12	WORK PLAN	Latest version of 3GPP Workplan (SLIDES)		MCC			NOTED
NP-030010	5.2	LS IN	Liaison statement on comments to DTR/MTS 0082		TSG SA			NOTED
NP-030011	5.2	LS IN	Response to IETF Concerns on SIP and IMS Interoperability		TSG SA			NOTED
NP-030012	5.2	LS IN	Additional Release 5 work needed for Policy Control and Subscription Control of Media		TSG SA			NOTED
NP-030013	5.2	LS IN	LS on control of SS barring for SMS transfer over GPRS		SA1			NOTED
NP-030014	5.1	LS IN	LS on GSM phase 2 network errors		CN1			NOTED
NP-030015	6.5.1	REPORT	Chair's report from CN5 (slide presentation)		CN5 Chair			NOTED
NP-030016	6.5.1	LS PACK	LSs outgoing from CN5 between CN#18 and CN#19		CN5			NOTED
NP-030017	6.5.1	REPORT	Draft Report of CN5#22, Bangkok, THAILAND, 24-28 February 2003 (N5-030007)		CN5 Chair			NOTED
NP-030018	7.10	CR PACK	Rel-4 CRs 29.198-02 OSA API Part 2: Common data	OSA1	CN5	Rel-4	29.198-02	APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030019	7.10	CR PACK	Rel-4 CRs 29.198-03 OSA API Part 3: Framework	OSA1	CN5	Rel-4	29.198-03	APPROVED
NP-030020	7.10	CR PACK	Rel-4 CRs 29.198-04 OSA API Part 4: Call control	OSA1	CN5	Rel-4	29.198-04	APPROVED
NP-030021	7.10	CR PACK	Rel-4 CRs 29.198-05 OSA API Part 5: Generic user interaction	OSA1	CN5	Rel-4	29.198-05	APPROVED
NP-030022	7.10	CR PACK	Rel-4 CRs 29.198-06 OSA API Part 6: Mobility	OSA1	CN5	Rel-4	29.198-06	APPROVED
NP-030023	7.10	CR PACK	Rel-4 CRs 29.198-07 OSA API Part 7: Terminal Capabilities	OSA1	CN5	Rel-4	29.198-07	APPROVED
NP-030024	7.10	CR PACK	Rel-4 CRs 29.198-08 OSA API Part 8: Data session control	OSA1	CN5	Rel-4	29.198-08	APPROVED
NP-030025	7.10	CR PACK	Rel-4 CRs 29.198-11 OSA API Part 11: Account management	OSA1	CN5	Rel-4	29.198-11	APPROVED
NP-030026	7.10	CR PACK	Rel-4 CRs 29.198-12 OSA API Part 12: Charging	OSA1	CN5	Rel-4	29.198-12	APPROVED
NP-030027	8.2	CR PACK	Rel-5 CRs 29.198-02 OSA API Part 2: Common data	OSA2	CN5	Rel-5	29.198-02	APPROVED
NP-030028	8.2	CR PACK	Rel-5 CRs 29.198-03 OSA API Part 3: Framework	OSA2	CN5	Rel-5	29.198-03	APPROVED
NP-030029	8.2	CR PACK	Rel-5 CRs 29.198-04-1 OSA API Part 4: Call control; Sub-part 1: Call Control Common Definitions	OSA2	CN5	Rel-5	29.198-04-1	APPROVED
NP-030030	8.2	CR PACK	Rel-5 CRs 29.198-04-2 OSA API Part 4: Call control; Sub-part 2: Generic Call Control SCF	OSA2	CN5	Rel-5	29.198-04-2	REVISED TO 0130
NP-030031	8.2	CR PACK	Rel-5 CRs 29.198-04-3 OSA API Part 4: Call control; Sub-part 3: Multi-Party Call Control SCF	OSA2	CN5	Rel-5	29.198-04-3	APPROVED
NP-030032	8.2	CR PACK	Rel-5 CRs 29.198-04-4 OSA API Part 4: Call control; Sub-part 4: Multi-Media Call Control SCF	OSA2	CN5	Rel-5	29.198-04-4	APPROVED
NP-030033	8.2	CR PACK	Rel-5 CRs 29.198-05 OSA API Part 5: Generic user interaction	OSA2	CN5	Rel-5	29.198-05	APPROVED
NP-030034	8.2	CR PACK	Rel-5 CRs 29.198-08 OSA API Part 8: Data session control	OSA2	CN5	Rel-5	29.198-08	APPROVED
NP-030035	8.2	CR PACK	Rel-5 CRs 29.198-11 OSA API Part 11: Account management	OSA2	CN5	Rel-5	29.198-11	APPROVED
NP-030036	9.7	WID	Rel-6 [draft] Revised WID OSA Stage 3	OSA3	CN5	Rel-6	29.198-x, 29.998-x	APPROVED
NP-030037	6.1.1	REPORT	Status Report for TSG CN WG1	-	CN1 Chair	-		NOTED
NP-030038	6.1.1	REPORT	CN1#28 Meeting Report		MCC	-		NOTED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030039	6.1.1	LS PACK	All LSs sent from CN1 since TSG CN#18 Meeting		MCC	-		NOTED
NP-030040	7.6	CR PACK	CR to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 09.08 and 49.008	GSM/UMTS interworking	CN1	R99		APPROVED
NP-030041	7.6	CR PACK	CR to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.009	GSM/UMTS interworking	CN1	R99		APPROVED
NP-030042	7.11	CR PACK	CR to R99 (with mirror CRs) on Work Item TEI towards 24.008	TEI	CN1	R99		APPROVED
NP-030043	7.11	CR PACK	CR to R99 (with mirror CRs) on Work Item TEI towards 24.008 awaiting GERAN endorsement	TEI	CN1	R99		REVISED TO 0141
NP-030044	7.12	CR PACK	CR to Rel-4 (with mirror CR) on Work Item TEI4 towards 24.002	TEI4	CN1	Rel-4		APPROVED
NP-030045	8.1	CR PACK	CR to Rel-5 on Work Item IMS-CCR towards 23.218(040r2)	IMS-CCR	CN1	Rel-5		APPROVED
NP-030046	8.1	CR PACK	CR to Rel-5 on Work Item IMS-CCR towards 23.218(042)	IMS-CCR	CN1	Rel-5		APPROVED
NP-030047	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.228	IMS-CCR	CN1	Rel-5		APPROVED
NP-030048	8.1	CR PACK	CR to Rel-5 on Work Item IMS-CCR towards 24.228(102r2)	IMS-CCR	CN1	Rel-5		APPROVED
NP-030049	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 1	IMS-CCR	CN1	Rel-5		APPROVED
NP-030050	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 2	IMS-CCR	CN1	Rel-5		APPROVED
NP-030051	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 3	IMS-CCR	CN1	Rel-5		APPROVED
NP-030052	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 4	IMS-CCR	CN1	Rel-5		APPROVED
NP-030053	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards IMS access with SIM	IMS-CCR	CN1	Rel-5		CONDITIONALLY APPROVED
NP-030054	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards Signaling PDP context Indication to Core Network	IMS-CCR	CN1	Rel-5		PART APPROVED
NP-030055	8.8	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 24.008	TEI5	CN1	Rel-5		APPROVED
NP-030056	8.8	CR PACK	CR to Rel-5 on Work Item TEI5 towards 23.034	TEI5	CN1	Rel-5		APPROVED
NP-030057	9.10	CR PACK	CR to Rel-6 on Work Item TEI6 towards 24.008	TEI6	CN1	Rel-6		APPROVED
NP-030058	9.11	CR PACK	CR to Rel-6 on Work Item T-GSM towards 24.008	T-GSM	CN1	Rel-6		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030059	9.4	WID	Emergency Call Enhancements for IP& PS Based Calls - stage 3	EMC1-PS	CN1	Rel-6		REVISED TO 0144
NP-030060	9.8	WID	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	MBMS	CN1	Rel-6		REVISED TO 0151
NP-030061	7.12	TR	Proposed new TR 29.abc on network errors		Nokia	Rel-6		NOTED
NP-030062	8.8	CR	Introduction of USIM in the figure "Overview mobility management protocol"	TEI5	Siemens	Rel-5	24.008	APPROVED
NP-030063	6.1.2	DISCUSSION DOC	Documentation of GSM phase 2 network errors		Siemens			NOTED
NP-030064	6.6	REPORT	Progress Report, ITU-T Ad Hoc		ITU-T Ad Hoc Convenor			NOTED
NP-030065	6.6	LS OUT	LS on Co-ordination of SDO input to ITU-T Q.1741.3		ITU-T Ad Hoc Convenor			REVISED TO 0150
NP-030066	6.6	DISCUSSION DOC	Proposal as SDO Input To The ITU-T Draft Rec. Q.1741.3		ITU-T Ad Hoc Convenor			ENDORSED
NP-030067	9.11	WID	Enhancement of dialled service for CAMEL in Release 6		Rapportour			WITHDRAWN
NP-030068	7.1	CR PACK	Correction to interactions between CAMEL control of MO SMS and barring		Vodafone			APPROVED
NP-030069	5.1	LS IN	LS on MS RAC for UMTS only mobiles		CN1			NOTED
NP-030070	6.3.1	REPORT	CN3 Status Report to CN Plenary	-	CN3 Chair	-		NOTED
NP-030071	6.3.1	REPORT	Draft Meeting Report from CN3#27 Meeting (Dublin)	-	CN3	-		NOTED
NP-030072	6.3.1	LS PACK	LSs outgoing from CN5 between CN#18 and CN#19	-	CN3	-		NOTED
NP-030073	9.1	TR	TR 29.962v1.0.0 (for information)	W-CCR-IWIP	CN3	Rel-6		NOTED
NP-030074	7.11	CR PACK	CRs to R97 (with mirror CRs) on Work Item T.E.I	TEI	CN3	R97		APPROVED
NP-030075	7.11	CR PACK	CRs to Rel-4 (with mirror CRs) on Work Item T.E.I	TEI	CN3	Rel-4		APPROVED
NP-030076	7.8	CR PACK	CRs to Rel-4 (with mirror CRs) on Work Item CSSPLIT	CSSPLIT	CN3	Rel-4		APPROVED
NP-030077	8.8	CR PACK	CR to Rel-5 on Work Item T.E.I	TEI	CN3	Rel-5		APPROVED
NP-030078	8.7	CR PACK	CR to Rel-5 on Work Item SCUDIF	SCUDIF	CN3	Rel-5		REJECTED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030079	8.5	CR PACK	CR to Rel-5 on Work Item E2EQoS	E2EQoS	CN3	Rel-5		APPROVED
NP-030080	8.5	CR PACK	CR to Rel-5 (29.207) on Work Item E2EQoS	E2EQoS	CN3	Rel-5		APPROVED
NP-030081	8.5	CR PACK	CR to Rel-5 (29.208) on Work Item E2EQoS	E2EQoS	CN3	Rel-5		APPROVED
NP-030082	6.2.1	REPORT	Status Report for TSG CN WG2		CN2 Chair			NOTED
NP-030083	6.2.1	REPORT	CN2#28 Draft Meeting Report		MCC			NOTED
NP-030084	6.2.1	LS PACK	LSs sent from CN2 since TSG CN#18 Meeting		CN2			NOTED
NP-030085	7.1	CR PACK1	CRs to R99 WI CAMEL3	CAMEL3	CN2	R99		APPROVED
NP-030086	7.1	CR PACK2	CR to R99 WI CAMEL3	CAMEL3	CN2	R99		APPROVED
NP-030087	7.1	CR PACK1	CRs to Rel-5 WI CAMEL4	CAMEL4	CN2	R99		APPROVED
NP-030088	7.1	CR PACK2	CRs to Rel-5 WI CAMEL4	CAMEL4	CN2	R99		APPROVED
NP-030089	8.3	CR PACK3	CRs to Rel-5 WI CAMEL4	CAMEL4	CN2	Rel-5		APPROVED
NP-030090	8.3	CR PACK1	CRs to Rel-5 WI IMS-CAMEL	IMS-CAMEL	CN2	Rel-5		APPROVED
NP-030091	8.3	CR PACK2	CRs to Rel-5 WI IMS-CAMEL	IMS-CAMEL	CN2	Rel-5		APPROVED
NP-030092	9.11	WID	WID "Enhancement of dialled services for CAMEL"	EDCAMEL	CN2	Rel-6		REVISED TO 0152
NP-030093	6.4.1	REPORT	CN4 meeting report after CN#18		CN4			NOTED
NP-030094	6.4.1	LS PACK	CN4 Output LSs after CN#18		CN4			NOTED
NP-030095	7.1	CR PACK	Corrections on Camel Phase 3	Camel3	CN4			APPROVED
NP-030096	7.3	CR PACK	Corrections on GPRS Release 99	GPRS	CN4			APPROVED
NP-030097	7.7	CR PACK	Corrections on Transcoder Free Operation Release 4	OoBTC	CN4			APPROVED
NP-030098	7.11	CR PACK	Small corrections on technical enhancements and improvements for R96	TEI	CN4			APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030099	7.9	CR PACK	Corrections on Multicall R99	Multicall	CN4			APPROVED
NP-030100	7.11	CR PACK	Small corrections on technical enhancements and improvements for R99	TEI	CN4			APPROVED
NP-030101	8.1	CR PACK	Corrections on IP-based Multimedia Services Cx/Dx-interface	IMS-CCR	CN4			APPROVED
NP-030102	8.1	CR PACK	Corrections on IP-based Multimedia Services Sh-interface	IMS-CCR	CN4			APPROVED
NP-030103	8.3	CR PACK	Corrections on Camel Phase 4	Camel4	CN4			APPROVED
NP-030104	8.4	CR PACK	Corrections on Location Service Enhancements Release 5	LCS1	CN4			APPROVED
NP-030105	8.5	CR PACK	Corrections on End to end QoS for PS Domain	E2EQOS	CN4			APPROVED
NP-030106	8.7	CR PACK	Correction on Service Change and UDI Fallback	SCUDIF	CN4			REJECTED
NP-030107	8.8	CR PACK	Small Technical Enhancements and Improvements for GTP specification Rel-5	TEI5	CN4			APPROVED
NP-030108	8.8	CR PACK	Small Technical Enhancements and Improvements for CSSPLIT specification Rel-5	TEI5	CN4			APPROVED
NP-030109	8.8	CR PACK	Small Technical Enhancements and Improvements for CCBS specification Rel-5	TEI5	CN4			APPROVED
NP-030110	8.8	CR PACK	Small Technical Enhancements and Improvements for SMS specification Rel-5	TEI5	CN4			APPROVED
NP-030111	9.10	CR PACK	Small Technical Enhancements and Improvements for MAP specification Rel-6	TEI6	CN4			APPROVED
NP-030112	9.10	CR PACK	Small Technical Enhancements and Improvements for SMS specification Rel-6	TEI6	CN4			APPROVED
NP-030113	9.10	CR PACK	Small Technical Enhancements and Improvements for Priority Service specification Rel-6	TEI6	CN4			APPROVED
NP-030114	9.11	CR PACK	Corrections on Location Service Enhancements Release 6	LCS2	CN4			APPROVED
NP-030115	9.1	WID	Updated WID for Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mc Interface between IMS-MGW and MGCF	IMS-CCR-Mn	CN4	Rel-6		APPROVED
NP-030116	9.11	WID	WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking	WLAN	CN4	Rel-6		APPROVED
NP-030117	9.4	LS IN	LS on updated WID for emergency call enhancements for IP & PS based calls		CN1			NOTED
NP-030118	5.3	LS IN	Received comments to Rec. Q.1741.2 approval relevant to 3GPP		ITU-T			NOTED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030119	5.2	LS IN	Liaison on eTFO	eTFO	SA2			NOTED
NP-030120	5.2	LS IN	Re. LS on SS barring for SMS transfer over GPRS		SA2			NOTED
NP-030121	5.2	LS IN	LS on Clarification of Scenario 2 and Scenario 3 architectural characteristics and stable and non-stable parts of TS 23.234		SA2			NOTED
NP-030122	9.4	LS IN	Re. LS on updated WID for emergency call enhancements for IP & PS based calls		SA2			NOTED
NP-030123	5.2	LS IN	LS on Protocols over the Mt interface		SA2			NOTED
NP-030124	5.1	LS IN	LS on Status of OSA Rel6 Requirements	OSA	CN5			NOTED
NP-030125	5.2	LS IN	LS on Radio Access Bearer for PS conversational testing					Forwarded to CN1, CN4 and CN3
NP-030126	5.2	LS IN	RE. LS on the "Additional Release 5 work needed for Policy Control and Subscription Control of Media"		SA3			NOTED
NP-030127	8.2	DISCUSSION DOC	Clarification on Framing Protocol	Framing Protocol	Siemens et Al.			ENDORSED
NP-030128	6.1.2	DISCUSSION DOC	On the proposed TR on "Recommended User Equipment (UE) measures to overcome specific infrastructure faults"		Ericsson			NOTED
NP-030129	4.3	REPORT	IETF status report		CN Chair			NOTED
NP-030130	8.2	CR PACK	29.198-04-3 010 - Rel-5 Correction of definition of the P_MAX_CALLLEGS_PER_CALL	OSA2	CN5	Rel-5	29.198-04-3	APPROVED
NP-030131	8.7	DISCUSSION DOC	Concern for two step HLR interrgation		NTT DoCoMo	Rel-5		NOTED
NP-030132	11	CR PACK	CRs to lists of specs, frozen Releases		JMM			NOTED
NP-030133	11	LIST	Specs status list prior to TSGs#19		JMM			NOTED
NP-030134	7.2	DISCUSSION DOC	Comments on Proposed TR "Specific network implementation faults and possible UE workaround procedures		Nortel			NOTED
NP-030135	4.3	REPORT	3GPP/IETF Release 6 Workshop Notes		CN Chair			NOTED
NP-030136	9.11	DISCUSSION DOC	Discussion on IPv6 utilisation within IMS		mmO2			NOTED
NP-030137	7.12	LS IN	LS on terminal and network revision interoperability problems		GERAN			NOTED
NP-030138	10.5	CALENDAR	2003/4 Meeting schedule		MCC			NOTED

Tdoc	Agenda	Type	Tdoc Title	WI	Source	Rel	Spec	Status
NP-030139	6.4.1	LS OUT	LS on Proposed deletion of security -related work items in TSG-CN		CN			APPROVED
NP-030140	5.2	LS IN	LS on early UE handling		SA2			NOTED
NP-030141	5.2	LS IN	Reply to LS on MS RAC for UMTS only mobiles		GERAN2			Noted - APPROVED
NP-030142	7.12	LS OUT	Liaison statement on error handling in Pre-R99 networks		CN			REVISED TO 0146
NP-030143		DISCUSSION DOC	Issues regarding one-step HLR interrogation		Ericsson			NOTED
NP-030144	9.4	WID	Emergency Call Enhancements for IP& PS Based Calls - stage 3	EMC1-PS	Ericsson	Rel-6		REVISED TO 0149
NP-030145	11	LIST	Specifications not yet under change control, but pertaining to frozen Releases		MCC, JMM			NOTED
NP-030146	7.12	LS OUT	Liaison statement on error handling in Pre-R99 networks		CN			APPROVED
NP-030147		REPORT	3GPP/IETF Release 6 Workshop Major Conclusions*		CN Chair			NOTED
NP-030148	8.1	DISCUSSION DOC	Problems with the CR contained in NP-030054		Ericsson			NOTED
NP-030149	9.4	WID	Emergency Call Enhancements for IP& PS Based Calls - stage 3	EMC1-PS	Ericsson	Rel-6		APPROVED
NP-030150	6.6	LS OUT	LS on Co-ordination of SDO input to ITU-T Q.1741.3		ITU-T Ad Hoc Convenor			APPROVED
NP-030151	9.8	WID	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	MBMS	CN1	Rel-6		APPROVED
NP-030152	9.11	WID	WID "Enhancement of dialled services for CAMEL"	EDCAMEL	CN2	Rel-6		REVISED TO 0153
NP-030153	9.11	WID	WID "Enhancement of dialled services for CAMEL"	EDCAMEL	CN2	Rel-6		APPROVED

ANNEX C. TSG CN meeting Participants List

Mr. Peter M. Adams	peter.m.adams@bt.com	BT Group Plc	3GPPM	ETSI	GB
Mr. Niels Andersen	NPA001@MOTOROLA.COM	MOTOROLA A/S	3GPPM	ETSI	DK
Mr. Nigel Barnes	Nigel.Barnes@motorola.com	MOTOROLA Ltd	3GPPM	ETSI	GB
Mr. Paolo Belloni	paolo.belloni@tilab.com	TELECOM ITALIA S.p.A.	3GPPM	ETSI	IT
Mr. Nigel. H Berry	nhberry@lucent.com	Lucent Technologies N. S. UK	3GPPM	ETSI	UK
Mr. David Boswarthick	david.boswarthick@etsi.org	ETSI Secretariat	3GPPM	ETSI	FR
Mr. Richard Brook	richardbrook39@aol.com	SAMSUNG Electronics	3GPPM	ETSI	GB
Mr. Stephan Castagnet	stephane.castagnet@alcatel.fr	NEC Technologies (UK)	3GPPM	ETSI	GB
Dr. Elizabeth Daniel	lizdaniel@lucent.com	Lucent Technologies N. S. UK	3GPPM	ETSI	UK
Mr. Ian Doig	ian.doig@motorola.com	MOTOROLA S.A.S	3GPPM	ETSI	FR
Mr. François Dronne	francois.dronne@rd.francetelecom.com	ORANGE FRANCE	3GPPM	ETSI	FR
Mr. Ed Ehrlich	ed.ehrlich@nokia.com	Nokia Telecomms Inc.	3GPPM	T1	US
Mr. Jan Ellsberger	jan.ellsberger@era.ericsson.se	Ericsson Korea	3GPPM	TTA	KR
Mr. Rouzbeh Farhoumand	rouzbeh.farhoumand@ericsson.com	Nippon Ericsson K.K.	3GPPM	ARIB	JP
Mr. Javier Gonzalez	gqfj@nortelnetworks.com	NORTEL NETWORKS (EUROPE)	3GPPM	ETSI	GB
Mr. Roland Gruber	roland.rg.gruber@SIEMENS.COM	SIEMENS AG	3GPPM	ETSI	DE
Mr. Stephen Hayes	stephen.hayes@ericsson.com	Ericsson Inc.	3GPPM	T1	US
Ms. Ruth Hewson	ruth.hewson@gb.vodafone.co.uk	VODAFONE LTD	3GPPM	ETSI	GB
Mr. Ludwig Hiebinger	ludwig.hiebinger@icn.siemens.de	SIEMENS AG	3GPPM	ETSI	DE
Mr. Hannu Hietalahti	hannu.hietalahti@nokia.com	NOKIA GmbH	3GPPM	ETSI	FI
Mr. Kevan Hobbis	Kevan.Hobbis@three.co.uk	3	3GPPM	ETSI	GB
Mr. Thomas Holm	thrho@tdc.dk	TDC TELE DANMARK A/S	3GPPM	ETSI	DK
Mr. Tomas Holmström	tomas.holmstrom@emp.ericsson.se	Nippon Ericsson K.K.	3GPPM	TTC	JP
Mr. Nobuhiro Horisaki	horisaki@ttc.or.jp	TTC	3GPPM	TTC	JP
Mr. Andrew Howell	andrew.howell@motorola.com	MOTOROLA GmbH	3GPPM	ETSI	UK
Mr. Yun-Chao Hu	yunchao.hu@etc.ericsson.se	ERICSSON L.M.	3GPPM	ETSI	CH
Mr. Daisuke Igarashi	igarashi@nw.vrp.nttdocomo.co.jp	NTT DoCoMo Inc.	3GPPM	TTC	JP
Mr. Dieter Jacobsohn	Dieter.Jacobsohn@t-mobile.de	T-MOBILE DEUTSCHLAND	3GPPM	ETSI	DE
Mr. Per Johan Jorgensen	jorgensen@etsi.org	ETSI Secretariat	3GPPM	ETSI	FR
Ms. Susanna Kallio	susanna.kallio@nokia.com	Nokia Korea	3GPPM	TTA	KR
Mr. Mikko Kanerva	mikko.j.kanerva@nokia.com	NOKIA Corporation	3GPPM	ETSI	FI
Mrs. Soo Jin Kim	soojin@sktelecom.com	SK Telecom	3GPPM	TTA	KR
Mr. Norbert Klehn	norbert.klehn@siemens.com	SIEMENS AG	3GPPM	ETSI	DE
Mr. Kimmo Kymalainen	kimmo.kymalainen@etsi.org	ETSI Secretariat	3GPPM	ETSI	FR
Dr. Hashem Madadi	hmadadi@attglobal.net	3	3GPPM	ETSI	GB
Mr. Steve Mecrow	steve.mecrow@o2.com	mmO2 plc	3GPPM	ETSI	GB
Dr. Sang-jun Moon	moonst@samsung.com	Samsung Electronics Co., Ltd	3GPPM	TTA	KR
Mr. Klaus Nieminen	klaus.nieminen@ficora.fi	FICORA	3GPPM	ETSI	FI
Mr. Akishige Noda	aki.noda@jp.fujitsu.com	Fujitsu Limited	3GPPM	TTC	JP
Mr. Juha Nykopp	juha.nykopp@radiolinja.fi	Elisa Communications Corp.	3GPPM	ETSI	FI
Mr. Stig Ouvrier	stig.g.ouvrier@telia.se	TeliaSonera AB	3GPPM	ETSI	SE
Mr. Keijo Palviainen	keijo.palviainen@nokia.com	NOKIA Corporation	3GPPM	ETSI	FI

Mr. Ian David Park	ian.park@gb.vodafone.co.uk	VODAFONE Group Plc	3GPPM	ETSI	GB
Mr. Johannes Rainer	Johannes.Rainer@oefeg.at	Telekom Austria AG	3GPPM	ETSI	AT
Mr. Derek Richards	drichards@megisto.com	Megisto Systems Inc.	3GPPM	ETSI	US
Mr. Nick Russell	nick.russell@gb.vodafone.co.uk	VODAFONE LTD	3GPPM	ETSI	GB
Mr. Nick Sampson	nick.sampson@orange.co.uk	ORANGE PCS LTD	3GPPM	ETSI	GB
Dr. Gary Schlanger	gschlanger@comcast.net	AT&T Wireless Services, Inc.	3GPPM	T1	US
Mr. Peter Schmitt	peter.schmitt@gksag.de	SIEMENS AG	3GPPM	ETSI	DE
Mr. Iain Sharp	isharp@nortelnetworks.com	NORTEL NETWORKS (EUROPE)	3GPPM	ETSI	GB
Mr. Sajid SOORMALLY	sajid.soormally@alcatel.fr	ALCATEL S.A.	3GPPM	ETSI	FR
Mr. Alain Sultan	alain.sultan@etsi.org	ETSI Secretariat	3GPPM	ETSI	FR
Mr. Toshiyuki Tamura	tamurato@ai.jp.nec.com	NEC Corporation	3GPPM	ARIB	JP
Mr. Kunihiko Taya	taya@bk.jp.nec.com	NEC Corporation	3GPPM	TTC	JP
Mr. Stefan Toth	stefan.toth@erv.ericsson.se	ERICSSON L.M.	3GPPM	ETSI	SE
Mr. Jose Ubeda	ubeda_ja@tsm.es	TELEFONICA de España S.A.	3GPPM	ETSI	ES
Mr. Hans van der Veen	Hans.vanderVeen@ccrle.nec.de	NEC EUROPE LTD	3GPPM	ETSI	GB
Miss Jie Wang	jie_wang@huawei.com	HuaWei Technologies Co., Ltd	3GPPM	CWTS	CN
Mr. Peter Wild	peter.wild@vodafone.com	Vodafone D2 GmbH	3GPPM	ETSI	DE
Dr. David Williams	dwilliams@qualcomm.com	QUALCOMM EUROPE S.A.R.L.	3GPPM	ETSI	FR
Ms. Wei Xie	xiew@bupt.edu.cn	RITT	3GPPM	ETSI	CN

History

Document History	
up to 14 th March 2003	DRAFT v0.0.1, 002, 003 distributed in meeting. v0.0.3 send to TSG CN Officials for comments
19 th March 2003	DRAFT v1.1.0 Presented to TSG-SA#19 (SP-030157)
21 st March 2003	<p>DRAFT v1.1.1 placed to meeting server and dispatched to the TSG-CN mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. David Boswarthick, 3GPP TSG CN MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 E-mail: david.boswarthick@ETSI.fr</p> <p>A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.</p> <p>E-mail comments back by 7th of April 2003</p>
	DRAFT v1.2.0 (with rev marks placed to FTP server)
June 2003	<i>Final v2.0.0 approved at TSG#20 Meeting– Made version 3.0.0 and placed to server as the official meeting report.</i>