

Third Generation Partnership Project

MEETING REPORT v3.0.0

3GPP TSG-CN#17

Biarritz, France
4th - 6th September, 2002



Hosted by Alcatel



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CN Chairman's Executive Summary

The open items in IMS continue to be resolved, however there are still some remaining dependencies. Work on drafts in the IETF has also progressed although not as rapidly as we would like. A particular milestone was the approval of the 3gpp-p-headers draft, which realizes many of the assumptions made earlier. A liaison to 3GPP from IETF which cautioned about 3GPP violations of the protocol and spirit of SIP was discussed. CN endorsed the interoperability goals of the liaison. The working groups should endeavour to correct as many inconsistencies as possible by December, 2002. These fixes would be part of Release 5. Those interoperability issues which cannot be addressed within this timeframe should be further discussed with the IETF. Tdoc NP-020492 summarizes the CN position as input to SA#17.

A liaison sent by CN4 to OMA (requesting they develop the protocol for the Lr interface) was considered. It was noted that this communication may have been premature as the transfer of work from LIF to OMA is not expected to take place before October. These issues will be raised during the SA#17 discussions on OMA.

The CN1 and SA2 preferences on media grouping were discussed. The only solution being currently considered is the Keep It Separate indicator as defined in the camarillo-mmusic-separate-streams draft. CN agreed to allow until December for this solution to progress within Release 5. If the draft has not had IESG approval by that date, then the solution will be moved to Release 6.

A question was raised of whether SMS support over GPRS is mandatory. If it is optional, then a way to signal this to the UE may be required. It was agreed to raise this as a requirements question with SA before any work is started in CN. The originators were also requested to pursue this issue in SA1.

The planned Release 5 work was completed for CAMEL support of IMS (23.278, 29.278, and associated CRs). Network Sharing in Connected Mode (using the solution which carries SNA access information encapsulated in BSSMAP) was completed. In addition, support was provided for dynamic DNS discovery when DHCPv6 is not used (using the PCO IE). GTT signalling in the UE was made release independent (as per SA directive).

New Release 6 work items were approved for:

- IMS (Phase 2) stage 3 enhancements (NP-020385)
- Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3 (NP-020387)
- OSA Release 6 (NP-020438)
- Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface protocol (NP-020494)

The presence WID (NP-020491) was also updated.

The CN meeting schedule for collocated CN WG meetings for 2003 was agreed (NP-020483).

1 Opening, of the meeting

Mr. Sajid Soormally of Alcatel welcomed the delegates to Biarritz on behalf of the hosts [Alcatel]. 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-020325 Draft agenda for CN #17 meeting. MCC. **APPROVED.**
- NP-020326 Allocation of documents to agenda items (start of day 1). Source: CN vice-chairman. **NOTED.**
- NP-020327 Allocation of documents to agenda items (end of day 1). Source: CN vice-chairman. **NOTED.**
- NP-020328 Allocation of documents to agenda items (end of day 2). Source: CN vice-chairman. **NOTED.**
- NP-020329 Allocation of documents to agenda items (end of day 3). 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#16 meeting

- NP-020330 Draft report from CN #16 meeting. Source: MCC
- Comments: Note to tdoc NP-020230 relating to incorrectly approved CR @ NP#16 needs to be modified to reflect present status.
- Status: **REVISED to 0479.**
- ? **REVISED** ?
- NP-020479 Draft report from CN #16 meeting. **APPROVED.**

4.2 Reports from other groups

no input

4.3 IETF coordination report

- NP-020334 IETF coordination report. Source: CN Chair. **NOTED.**
- Content: Contains the CN chairman's status report on progress of IETF work.
- Comments: Early allocation of RFC#s will not be available any more. This has caused too much disruption of the IETF processes. The normal RFC production time (from IESG approval to RFC production) seems to be in excess of 4 months, however selected drafts can be given expedited handling by RFC editors. The number of expedited drafts should be very small (1-2?). Therefore, alternative referencing schemes should be considered. One possible referencing approach is to reference using title and authors (Note: requires IETF to stabilize authors).
- Andrew Allen [Dynamicsoft] mentioned that there has been some progress in the IETF and about half of our dependencies have been approved in IETF.
- We may have a problem with referencing DRAFTS when the 3GPP TSs go for publication to the various SDOs (Draft references are not allowed).
- Andrew Allen suggested putting the internet drafts to the 3GPP server to allow referencing. Stephen Hayes reported that the IETF are strongly against storing obsolete IETF drafts on other web sites.
- Stephen summarised that we shall continue using the draft references in our specifications for the moment. However he will investigate finding a way to archive IETF drafts on the 3GPP server.

Nigel Berry [Lucent] suggested adding 3GPP resources to reduce the delay in getting the drafts approved. Stephen said he will investigate ways of accelerating the process in the IETF.

Status: **NOTED.**

4.4 CN Chairman's report

No input.

5 Incoming liaisons

5.1 From TSG-CN working groups

NP-020354 **LS on use of IP as transport for the Inter-GMLC Interface [N4-020999].** *Source CN4.*

Content: TSG CN4 would like to thank GSMA SerG and TSG SA2 for their analysis and recommendations regarding the use of IP as the transport layer for the interGMLC (Lr roaming) interface, and has taken note of the requirements on the Lr interface identified by GSMA SerG and by TSG SA2.

TSG CN4 agreed on the following:

- The protocol for the Lr interface shall be IP based
- The protocol for the Lr interface shall be based on the MLP protocol developed by LIF for the Le interface given the high degree of commonality between the information to be transferred over the Le interface and the information to be transferred over the Lr interface
- The MLP protocol cannot be adopted in its current status for the Lr interface, but needs minor adaptations
- TSG CN4 is willing to delegate the development of the protocol for the Lr interface to OMA (the successor of LIF) on condition that the protocol development is completed on time for use in Rel-6
- TSG CN4 would like to ask OMA to report to each TSG CN plenary meeting the state of development of the protocol for the Lr interface in order to ensure that the protocol definition is completed on time for use in Rel-6.

Comments: The LS Channel between 3GPP towards OMA is now open. The LS channel from OMA to 3GPP has not been opened, but this is an issue for OMA.

A number of delegates mentioned the bigger issue of working relations between OMA and 3GPP. This will be further discussed in SA#17.

Also there was a request that OMA report not only to CN4 but also to CN plenary on the progress of the protocol for the Lr interface. This will be further discussed in SA.

This LS from CN4 has will be sent out to OMA (if not done already).

The LS on this subject from SA2 to LIF is contained in NP-020391.

Status: **NOTED.**

NP-020358 **LS on Shared Networks [N4-021098].** *Source CN4.*

Content: Contains a response from CN4 to LSs from RAN3 and SA2 relating to shared networks.

Comments: Response from GERAN2 in NP-020392. GERAN2 accepts the solution proposed by CN4 (BSSMAP) and has provided CRs to realise this.

There are two sets of CRs from CN4 relating to this issue (one for MAP level other for BSSMAP level); only one of these CR packs needs to be approved.

Status: **NOTED.**

NP-020359 **LS on Request for DNS server address by SM procedure [N1-021834].** *Source CN1.*

Content: There is currently no support for dynamic configuration of Domain Name System (DNS) server IPv6 addresses in a UE not supporting the DHCPv6 protocol, as the necessary internet drafts are not ready.

As a “back-up” solution to the internet-drafts that most likely will be late for Rel-5, a mechanism is introduced in CN1 and CN3 specifications to allow the possibility of dynamic configuration of Domain Name System (DNS) server IPv6 addresses via the Session Management procedures.

The solution proposes to use the PCO-IE to request the IPv6 address for DNS servers. This will be a generic solution for 3GPP and described in 27.060 and 29.061.

The coding within the PCO-IE is outlined in 24.008. As IMS may use the IPv6 address for DNS servers, this solution is also mentioned in 24.229.

Comments: It was reported that SA2 do not object to the solution proposed by CN1.

The corresponding CRs are contained in NP-020372.

Status: **NOTED.**

NP-020360 **LS on Media grouping [N1-021782].** *Source CN1.*

Content: It is the understanding of CN1 that separate media streams may be indicated from the P-CSCF, based on local policy. CN1 has evaluated the requirements and considered the following solutions:

1. Additions to SDP as described in draft-camarillo-mmusic-separate-streams-00.txt (additions to draft-ietf-mmusic-fid-06.txt currently close to being finalized in IETF).
2. Additions to SIP by e.g. a new p-header.

Both alternatives above require work in IETF, and CN1 has seen alternative 1 as the way forward and submitted draft-camarillo-mmusic-separate-streams-00.txt to IETF. The draft has got some comments but is not yet adopted as a working group item. The timeframe for this draft to possibly reach RFC status is not easy to predict, but it is the opinion of CN1 that the draft will at least need 6 months more to receive RFC status even if 3GPP puts effort into giving the document priority treatment within IETF.

CN1 asks SA / CN to consider the problem described above and come back to CN1 with guidance on the concerns for the Rel-5 timeframe.

Comments: The response from SA2 is provided in NP-020389. The output liaison from TSG CN is NP-020480.

Status: **NOTED.**

5.2 From other 3GPP groups

NP-020356 **LS reply on "3GPP-specific Diameter applications" [S5-024244].** *Source SA5.*

Comments: Already addressed by CN4.

Status: **NOTED.**

NP-020357 **LS on Allowed AMR-WB Configurations [S4-020481].** *Source SA4.*

Content: SA4 have discussed the aspects of AMR-WB speech telephony services, considering especially the interworking between 2G and 3G core networks with GERAN and UTRAN access. The goal was to further simplify the handling within the RAN and CN for call set-up and handover, especially at the inter-RAN handovers.

As a consequence of the discussion it is proposed to reduce the allowed Configurations for AMR-WB speech telephony to exactly three (see also attached S4-020393):

Configuration A: 6,60 / 8,85 / 12,65 kbps.

Configuration B: 6,60 / 8,85 / 12,65 / 15,85 kbps.

Configuration C: 6,60 / 8,85 / 12,65 / 23,85 kbps.

These configurations are per design always TFO/TrFO compatible and by this minimise the need for RAB and bearer modifications.

Configuration D (6,60 / 8,85 / 12,65 / 15,85 / 23,85) was deleted from the list of allowed configurations, because it is not compatible with any of the other three (mode 6,60 kbps is missing).

SA4 already took the actions and prepared the necessary CRs for all relevant Technical Specifications under SA4 responsibility.

Comments: Referred to CN4 for their consideration. Stephen will report back to CN email list whether the SA4 CRs have been approved in the SA plenary.

Status: **NOTED - Referred to CN1 and CN4.**

NP-020389 **Re. LS on "Media grouping" [S2-022640].** *Source SA2.*

Content: Response LS to questions from CN1 contained in NP-020360.

SA2 does not intend to change the stage-2 mechanism specified in sub-clause 4.2.5.1 of TS 23.228 for Rel5 (or Rel6), as it allows for enough flexibility in terms of unavailability of the KIS (Keep It Separate) indicator.

SA2 understands that the UE is expected to put real-time media components to separate PDP Contexts irrespective of the availability of the KIS indicator. At the same time, the UE may share the same PDP Context for non-real-time components.

As a conclusion, SA2 would like to ask CN1 to pursue further the work on the KIS indicator (draft-camarillo-mmusic-separate-streams-00.txt). In SA2's opinion it is desirable to complete this work within Rel5, however, if the Rel5 timelines cannot be met, it is acceptable to complete this work in Rel6 timeframe.

Comments: Andrew Allen [Dynamicsoft] said that this does not justify delaying Rel-5 completion of IMS. This IETF draft is in the very early stage and may take over 6 months to reach approval status.

Derek Richards [Megisto Systems Inc] had concerns that moving this to Rel-6 would leave a mis-alignment between stage 2 and stage 3. SA2 will be requested to clarify the default UE behaviour if no KIS is received.

CN propose that the support of media grouping functionality be part of Rel-6.

Stephen will inform SA#17 of this decision.

An LS will be sent to SA2, cc CN1, CN3 and SA, [NP-020480].

Status: **NOTED.**

NP-020480 **Re. LS on Media grouping.** *Source CN Plenary.*

Content: TSG CN notes the opinion of SA2 that it is desirable to complete this work within Rel-5, however, if the Rel5 timelines cannot be met, it is acceptable to complete this work in Rel-6 timeframe

The view of TSG CN is that it is not acceptable for the stability of Rel-5 to be delayed six months or more by a new IETF dependency that is not complete and stable and cannot be referenced. TSG CN would therefore only be prepared to accept a CR to CN1 specifications at CN#18 to meet the media grouping requirement if it contained suitable references to stable (IESG approved) drafts. If the drafts identified by CN1 could reach such a state of stability and be suitably referenced by CN#18 then TSG CN would be prepared to consider such CRs at CN#18; otherwise TSG CN would choose to move such functionality to release 6 and request that CN1 and SA2 update their release 5 versions of their specifications accordingly.

However TSG CN is concerned about the default behaviour of the UE if the KIS indicator is not sent to the UE and requests SA2 and CN1 to consider if any further clarifications to this behaviour are required in the appropriate SA2 and CN1 specifications.

Status: **APPROVED.**

NP-020390 **Re. LS on "Subscribed Media Parameter" [S2-022634].** *Source SA2.*

Content: In this LS, SA2 confirms CN4's understanding that the S-CSCF examines the media parameters in the received SDP, and may remove those media streams which the subscriber does not have the authority to request.

SA2 also agrees that media type (e.g. audio, video etc.) as defined in SDP can be used to determine authorization of a session.

However, at SA2#26 no consensus on the content of CN4's input could be reached. SA2 believes that there is a correlation between the subscribed QoS parameter in the HLR and media subscribed in the IMS profile stored in the HSS. Nothing has been defined so far in the stage 2 specifications in this regard and SA2 hopes to address this topic in Release 6.

Comments: The related CR from CN4 on this topic is contained in NP-020449. Orange France have some concerns with the SA2 decision. This will be discussed further in NP-020449.

Status: **NOTED.**

NP-020391 **LS on the protocol development for the GMLC Lr-interface [S2-022615].** *Source SA2.*

Content: Contains the response from SA2 to the LS from CN4 [NP-020354]. It also raises some additional questions.

TSG-SA2 recognizes that CN4 is asking OMA to start the development work for the protocol for the Lr interface and SA2 finds this to be quite agreeable. However, in order to speed up the process, TSG-SA2 would kindly invite LIF to start the work on the Lr interface as soon as possible. The assumption is that the work would continue later on in OMA.

During the SA2 meeting some concern about the relationship between LIF and OMA was raised. TSG-SA2 asks LIF to clarify the relationship between LIF and OMA.

Which forum will maintain the MLP protocol for the Le interface and publish it in the future?

The current 3GPP specification refers to LIF TS 101 "Mobile Location Protocol Specification" and the URL of the public document area of LIF web site. If OMA maintain the current MLP protocol and publish it instead of LIF, the reference needs to be changed.

Which forum will develop the protocol for the Lr interface and publish it in the future?

In addition SA2 requests the following actions :-

To LIF:

3GPP TSG SA2 kindly asks LIF to progress the work on developing the MLP based protocol for the inter GMLC interface (Lr).

TSG SA2 also kindly asks LIF to inform us how the MLP protocol will be handled between LIF and OMA.

TSG SA2 would like to ask LIF to report to each TSG CN and SA plenary meetings the state of development of the protocol for the Lr interface in order to ensure that the protocol definition is completed on time for use in Rel-6, i.e. preferably by March 2003.

Comments: There seems to be some confusion relating to the transfer of responsibilities from LIF to OMA. This procedure is in the process of stabilisation, although it is believed that LIF will not transfer its engagements to OMA before October.

Stephen will bring up the following when this is discussed in SA next week:-

We should not suggest to LIF that this is a simple delegation of the task.

The issue of how the work is transferred from LIF to OMA is still open

Status: **NOTED.**

NP-020392 **Reply: LS on Shared Networks.** *Source GERAN..*

Content: Contains a response to the CN4 LS in NP-020358. GERAN has provided CRs to support implementing the BSSMAP solution.

Status: **NOTED.**

5.3 From other groups

NP-020355 **LS on Network Integration Testing TC SPAN**

Content: Contains a set of test documents from SPAN that are sent to 3GPP to see if they are of interest to them.

Comments: Ian Park [Vodafone] mentioned that this would be best seen by IREG [International Roaming Expert Group] of the GSM Association. Mike Briggs [Chair TC SPAN] will ensure the LS goes to IREG.

Status: **NOTED.**

NP-020393 **Liaison Statement on Interoperability Issues and SIP in IMS IETF**

Content: Contains a communication from IETF relating to the interoperability issue of SIP.

Comments: Ludwig Hiebinger [Siemens] raised the following issues; economics, time to market, compatibility between releases; Steve Mecrow [BT] also added the specifics relating to the use of 3GPP radio resources.

Stephen responds that IETF is already aware of the special requirements of radio access. The key difference in philosophy between 3GPP and the IETF model is that the 3GPP network is the trusted entity, and the user equipment is less trusted, whereas the IETF model sees the network as untrustworthy and the user terminal has to apply security measures to take account of this.

Ian Park added that the IETF would need to be educated on the importance of time to market. Iain Sharp supports the need for us to recognise that IETF often gets running implementations sooner than we do, because of their approach of basing the final version of their specification on implementations.

Andrew Allen [Dynamicsoft] supported examining the compatibility issues between the mobile and fixed worlds. Suggested CN1 and SA2 examine this issue to see what can be done for Stage 2/3 in the Rel-5 specifications.

Hannu Hietalahti [Nokia] suggested that a lot of the work needs to be examined by SA2, and SA3. 3GPP support the interoperability goal as suggested by the IETF.

CN1, SA2, SA3 will examine the requirements and attempt to resolve the interoperability issues.

Stephen suggested a workshop between the IETF SIP working group and the people involved in 3GPP. Suggested doing some homework about things that can be simply fixed in CN.

Hannu added that a joint session has been scheduled between CN1 and SA2 (12th Nov) to handle the issue of interoperability.

SA will be asked to allow these interoperability changes in the Rel-5 timescale.

Stephen will draft a response LS [NP-020482] to IETF on 3GPPs position on this.

It was also noted that the liaison recommends 3GPP participation in the SIPit events to ensure interoperability.

Status: **NOTED- Referred to CN1,3,4 and cc 2 and 5.**

NP-020482 **LS OUT to " Proposed Response to IETF LS on Interoperability Issues and SIP in IMS ",**
source CN chair.

Content: Contains the response to the LS from IETF.

Comments: *Main comments raised;*

IETF can assist us to meeting the 3GPP requirements.

Backwards compatibility is important between 3GPP releases. Applies to only Rel-6 and beyond.

Require SA1 to reconfirm the IMS requirements and possibly a relaxation of the requirements in order to reduce delays.

Remove inconsistency between specifications

Important issue of terminal compatibility.

Status: **REVISED to 0490**

? REVISED ?

NP-020490 **LS OUT to TSG_SA " Proposed Response to IETF LS on Interoperability Issues and SIP in IMS ",**
source CN chair.

Comments: Andrew Allen [Dynamicsoft] asked that the comments on backward compatibility in section 1 and 2 be made less IETF specific. This relates to both IETF and 3GPP.

Ian Park suggested that TSG SA will most probably do the final editing on the LS before it is sent to IETF.

Remove the either-or statement in " (either by future work in 3GPP or by evolution of the SIP protocol)."

Modification of the text "to ensure backwards compatibility between IMS releases"

Andrew Allen wants to ensure that the wording be made less contentious to ensure IETF is not offended.

TSG CN asks TSG SA to review the proposed LS to IETF and send it to IETF and the appropriate WGs in SA and CN.

Status: **REVISED to 0492**

? REVISED ?

NP-020492 **LS OUT to TSG_SA " Proposed Response to IETF LS on Interoperability Issues and SIP in IMS ",**
source CN chair.

Status: **APPROVED.**

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-020361 **Status Report for TSG CN WG1 CN1 chairman**

Comments: A number of CRs are presented by companies direct to CN#17 meeting that replace or improve CN1 agreed CRs that are present in classical CR packs.

Stephen Hayes took the opportunity to mention that a number of CRs are being brought direct to Plenary from individual companies.

CN Plenary wish to limit this to an 'exceptional' case and all CRs really should be sent via the usual Working Group channel. If a company wished to object to a CR in plenary that has been agreed by a WG, it really has to bring new concrete arguments which have not already been treated in the WG as to why the CR cannot be approved.

Objections and revisions to documents which were submitted to plenary by a WG should be made available to plenary meeting well before the plenary meeting.

There was concern over the CN1 proposal to have an interim meeting dedicated to Rel-6 issues. It was noted that in the current economic situation, it does not always make sense to drive standards

as hard as possible. Hannu Hietalahti also indicated that the limiting factor for the Rel-6 work might be SA1 and SA2, not CN. However, he also indicated that part of the purpose of this meeting was to offload work from the CN1 meetings so that more Rel-5 work could be completed.

Andrew Allen suggested going for Rel-6 as quickly as possible. Ultimately, the proposed Rel-6 meeting stands as planned by CN1.

Iain Sharp (Nortel) claims that GTT is supposed to be a release-independent feature which is documented in Rel-5; why then did CN1 define the support in R97? Hannu responds that it would have been too messy to try to do it in Release 5 and provide pointers to Release 5. Iain Sharp responds that this probably points to a philosophical problem with release independence...

Iain Doig asks whether there are any other specs impacted by GTT. If there are, how do we handle the documentation? Hannu responds that the option to support GTT for earlier releases extends only to the UE; the network support is defined only for Rel-5 and onwards.

Status: **NOTED.**

NP-020362 CN1 meeting report, *MCC*.

Status: **NOTED.**

NP-020363 All LSs sent from CN1 since TSG CN#16 Meeting, *MCC*

Status: **NOTED.**

NP-020364 All LSs sent from CN1 since TSG CN#16 Meeting, *MCC*

Status: **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-020337 Status Report for TSG CN WG2, *source CN2 chairman*.

Comments: Ian Doig raised the issue on merging CN2 and CN4. This has been raised on the CN email exploder, but it is considered premature to merge now. The date of March 2003 seems to be a target for re-examining this issue. The CN2, and CN4 chairs will present this issue to the two working groups in order to obtain feedback.

Status: **NOTED.**

NP-020338 CN2 #25 Draft meeting report, *source MCC*.

Status: **NOTED**

NP-020339 LSs sent from CN2 since TSG CN#16 meeting, *source CN2*.

Status: **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-020400 Status Report for TSG CN WG3, *source CN3 chairman*

Comments: Open items for 29.207 and 29.207 [NP-416 and NP-417] will be handled under the QoS agenda item (8.5).

Status: **NOTED.**

NP-020401 **CN3#24 Draft Meeting Report, source MCC.**

Status: **NOTED.**

NP-020402 **LSs sent from CN3 since TSG CN#16 Meeting, source MCC.**

Status: **NOTED.**

6.3.2 Questions for advice and decisions from CN3

Questions relating to E2EQoS are covered under agenda item 8.5

6.4 Reporting from TSG-CN WG4

6.4.1 Status report from CN4

NP-020333 **Status report from CN4, source CN4 chairman**

Comments: **Questions for guidance from CN.**

Production of 3GPP TS 29.060 version 6.0.0

CN4 approved two CRs for Release 6 to TS 29.060 (i.e. these are intended to be implemented in Release 6 but not in Release 5). CN are asked to decide whether these CRs should be implemented to cause the creation of TS 29.060 v6.0.0 immediately after CN #17, or whether the CRs should be put on hold for implementation later.

Development of the protocol for the Lr interface

CN are asked to approve CN4's recommendation that the protocol for the Lr interface should be developed in LIF, by adapting the protocol for the Le interface. CN will also need to decide how the development process should be managed.

CN4 were very strict on R99 and Rel-4 CRs and Nigel Berry [Lucent] commented that there may be some anomalies in these releases due to this strictness.

Derek Richards [Megisto Systems Inc] asked why the changes contained in NP-020461 are mainly editorials to Rel-6.

Ian Park suggested that possibilities may be to reject, postpone the CR, create the Rel-6 or simply to integrate these changes in the Rel-5 version. Nigel Berry mentioned that CN4's recommendation was to put this in Rel-6. Issue to be resolved when the CRs are addressed.

Status: **NOTED.**

NP-020441 **CN4 meeting reports after CN#16, source MCC.**

Status: **NOTED.**

NP-020442 **CN4 Output LSs after CN#16, source MCC.**

Status: **NOTED.**

6.4.2 Questions for advice and decisions from CN4

No Input.

6.5 Reporting from TSG-CN WG5

6.5.1 Status report from CN5

NP-020420 **Chairman's report from CN5 (slide presentation), source CN5 Chair.**

Status: **NOTED.**

NP-020421 LSs outgoing from CN5 between CN#16 and CN#17, *source MCC.*

Status: **NOTED.**

NP-020422 Draft Report of CN5#19, Montreal, CANADA, 8-12 July 2002 (N5-020557) , *source MCC.*

Status: **NOTED.**

6.5.2 Questions for advice and decisions from CN5

No Input.

6.6 Status ITU-T ad hoc group

No Input.

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

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

7.1 CAMEL Phase 2 and Phase 3

NP-020340 CRs to R99 WI CAMEL3, pack 1, *source CN2*

Status: **APPROVED.**

NP-020341 CRs to Rel4 WI CAMEL3, pack 2, *source CN2*

Status: **APPROVED.**

7.2 Security

No Input.

7.3 GPRS

NP-020403 CRs to R99 WI GPRS, *source CN3*

Status: **APPROVED.**

NP-020443 CR pack: GPRS Rel-4 & earlier, *source CN4*

Status: **REVISED to 0474.**

? **REVISED ?**

NP-020474 CR pack: GPRS Rel-4 & earlier, *source CN4*

Comments: The requirement to replace/repair simple references within the TS can be done without an explicit CR by the expert hand of MCC. Ian Doig [Motorola] does not want this practice to become a general rule that allows MCC to correct errors without a formal CR.

Norbert Klehn [Siemens] asked that the MCC check with the rapporteur before making the referencing change in order to avoid errors. The change is not so obvious when we look at TSs relating to GERAN.

There was a question on the Rel-5 CRs 23.003-049r3 and 29.060-324r1 not being Cat-A. After some investigation it was seen that these Rel-5 CRs were not exact mirrors, so the CAT-F labelling is correct.

Status: **APPROVED.**

NP-020473 Discussion document on SMS over GPRS support in the network, *source Panasonic.*

Contents: The source company has some difficulty trying to understand how an MS is to find out if the network supports SMS over GPRS.

They are taking this issue to the CN plenary after it failed to get any response on the CN1 reflector, although we now understand that there are also other mobile terminal manufacturers who have the same problem.

It appears that many operators are installing SGSNs that do not support SMS (or perhaps disable the SMS capabilities), but there is no indication in the specifications as to how the lack of SMS support is indicated to the MS.

Comments: Ian Park [Vodafone] stated that the support of SMS over GPRS is NOT mandatory and some operators have chosen not to enable/allow SMS over the GPRS route.

Several delegates found it unusual that a GPRS-only user cannot access SMS in several networks. Andrew Howell [Motorola], who presented the contribution, said this may be difficult to fix in existing networks but it may be something we can fix in Rel-6.

Panasonic has examined the existing specifications and believe that it is specified that the network should support SMS transfer via an SGSN.

Panasonic are asked to take this issue to SA1. Also Stephen will ask SA to provide feedback to CN on whether this is mandatory or optional. CN should await the requirements feedback before embarking on any modifications in signalling.

Status: **NOTED.**

7.4 Location service enhancement [LCS1]

7.5 Handover

7.6 GSM-UMTS interworking

NP-020365 CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.014, source CN1.

Comments: Ian Doig [Motorola] stated that these CRs make an editorial change to the "FOREWORD" part of the specification, which is only informational. He did not see this as an essential correction.
Hannu Hietalahti stressed that this corrected an error in the specification that could lead to misunderstanding.

Status: **APPROVED.**

7.7 Transcoder Free Operation [TrFO]

NP-020366 CRs to R99 (with mirror CR) and Rel-5 on Work Item TRFO-OOBTC towards 23.009 CN1

Comments: Nokia have some concern with the Rel-4 and Rel-5 CRs. An alternative Rel-5 CR is presented in **NP-020472**.

After some discussion CR 073, and the alternative Nokia CR in NP-020472, were referred back to CN1 and CN4 for further study.

Spec	CR #	R.	CAT	Rel	Tdoc Title	TDoc #	STATUS
23.009	073	5	F	Rel-5	Correction for Inter-MSC relocation procedure due to multiple codecs	N1-021858	Referred to CN1, CN4
23.009	078		F	R99	Correction to codec handling in Inter-MSC Handover	N1-021683	APPROVED
23.009	079		A	Rel-4	Correction to codec handling in Inter-MSC Handover	N1-021684	APPROVED

Status: **PART APPROVED**

NP-020472 Correction for Inter-MSC relocation procedure due to multiple codecs [Proposed replacement for a CR in NP-020366]. source Nokia.

Comments: Nigel Berry [Lucent] asked if CN4 have seen this CR (as they have secondary responsibility). Ian Park [CN4 Chair] indicated that CN4 have seen the Rev5 but not this Rev6 of the CR.
Peter Schmitt [Siemens] asked that this issue be sent back to CN4 so they can examine the MAP implications.

Hannu Hietalahti stated that Nokia are happy to accept either of the two proposed CRs. Ericsson support Rev6 but request that this be sent back to CN2 and CN4. Siemens cannot support the Rev6 and wish to see it discussed in the working groups.

CN agreed in principle to the indication of the selected and available CODECs after handover as the Release 5 solution. The main open issue is whether a new MAP revision is needed or not.

Status: **SENT BACK TO CN1 and CN4 for FURTHER STUDY.**

NP-020444 CR pack: TrFO/Codec control, source CN4.

Status: **APPROVED.**

7.8 Enable bearer independent CS architecture [\[CSSPLIT\]](#)

NP-020406 CRs to Rel-4 WI BICSCN, *source CN3*.

Status: [APPROVED](#).

NP-020463 CR pack: Bearer Independent Architecture, *source CN4*.

Comments: Ian Doig [Motorola] mentioned that the CR introduces editor's notes into the TS. He did not support putting editor's notes in a frozen TS, but did not object to the approval of the CR.
Ian Park [CN4 Chair] clarified that this is a place holder for the IANA number, and the place holder and editor's note will be removed when the package number is obtained.

Status: [APPROVED](#).

7.9 Multicall

7.10 OSA Enhancements [\[OSA1\]](#)

NP-020423 Rel-4 CRs 29.198-03, *source CN5*.

Status: [APPROVED](#).

NP-020424 Rel-4 CRs 29.198-04 *source CN5*.

Status: [APPROVED](#).

NP-020425 Rel-4 CRs 29.198-05 *source CN5*.

Status: [APPROVED](#).

NP-020426 Rel-4 CRs 29.198-08, *source CN5*

Status: [APPROVED](#).

7.11 Small Technical Enhancements & Improvements [\[TEI\]](#)

NP-020367 CRs to R99 (with mirror CRs) on Work Item TEI towards 23.122, *source CN1*.

Status: [APPROVED](#).

NP-020368 CRs to R99 (with mirror CRs) on Work Item TEI towards 24.008, *source CN1*.

Status: [APPROVED](#).

NP-020445 CR pack: TEI_4, *source CN4*.

Status: [APPROVED](#).

NP-020446 CR pack: TEI (R99) , *source CN4*.

Status: [APPROVED](#).

NP-020447 CR pack: TEI (R99): CRs on Addition of an error mapping table for MAP Update Location operation, *source CN4*.

Comments: These CRs were sent on email approval and were agreed. However Fujitsu saw some problems with the CRs but did not formally object to the CRs. Orange, Ericsson and Lucent have prepared CRs that deal with the issues raised by Fujitsu. The alternative CRs are presented in NP-020396/397/398.

Status: [REVISED to 0396, 0397, 0398](#).

NP-020396 CR 29.010-057r2 on Addition of an error mapping table for MAP Update Location operation [Proposed replacement for the CRs in NP-020447], *source Orange, Ericsson, Lucent.*

Comments: Replaces CR contained in NP-020447. No major technical change between Rev1 and Rev2, simply

Status: **APPROVED.**

NP-020397 CR 29.010-058r2 on Addition of an error mapping table for MAP Update Location operation [Proposed replacement for the CRs in NP-020447], *source Orange, Ericsson, Lucent.*

Status: **APPROVED.**

NP-020398 CR 29.010-059r2 on Addition of an error mapping table for MAP Update Location operation [Proposed replacement for the CRs in NP-020447], *source Orange, Ericsson, Lucent.*

Status: **APPROVED.**

NP-020448 CR pack: TEI (R98), *source CN4*

Status: **APPROVED.**

7.12 Any Other pre-Release 5 WI

NP-020369 CRs to R99 (with mirrors) on Work Item COMPACT towards 23.122 and 24.008, *source CN1.*

Status: **APPROVED.**

NP-020370 CRs to R97 (with mirrors) on Work Item GTT towards 04.08 and 24.008, *source CN1.*

Status: **APPROVED.**

NP-020404 CRs to R99 WI CS Data, *source CN3.*

Comment: Ian Doig [Motorola], mentioned that the R99 CR is missing the consequences in the cover sheet. The reason for change is the correction of an erroneous implementation of an earlier approved CR. This was seen as enough explanation.

Status: **APPROVED.**

NP-020405 CRs to Rel-4 WI CS Data, *source CN3.*

Status: **APPROVED.**

8 Release 5:

NOTE - Rel 5 release is Functionally FROZEN. CAT B and CAT C CRs are NOT ALLOWED

NOTE - CAT-D CRs are allowed up until TSG#18 (Dec 2002). At that time we will examine if CN can continue to allow CAT-D CRs until March 2003.

8.1 Provisioning of IP-based multimedia services [IMS]

NP-020378 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 4, *source CN1.*

Status: **APPROVED.**

NP-020379 CR to Rel-5 on Work Item IMS-CCR towards 24.229,- CR153r1, *source CN1.*

Status: **REVISED to 0335.**

? **REVISED** ?

NP-020335 CR pack to 24.229 on Registration with integrity protection, *source H3G, Nokia, Dynamicsoft, Ericsson and Nortel.*

Comments: Replaces CR153r2 contained in the N1 CR Pack [NP-020379]. Lucent also supported the CR. Following checking by the rapporteur, clashes with other CRs were found. This document was revised to a clean CR by Andrew Allen [Dynamicsoft]

Status: **REVISED to 0487.**

? **REVISED** ?

NP-020487 CRs to 24.229,- Registration with integrity protection, *source Dynamicsoft.*

Status: **APPROVED.**

NP-020336 CR pack to 24.229 on Remaining REGISTER and SUBSCRIBE flow updates, *source Lucent Technologies, Ericsson, Dynamicsoft, Nokia, Nortel.*

Comments: Replaces a CR [N1-021603] that was not agreed on CN1 email approval process (due to time restraints). Hannu Hietalahti [CN1 chair] supported the approval of this CR.

Status: **APPROVED.**

NP-020348 Draft TS 23.278 v 2.1.0 (CAMEL Phase 4 - Stage 2 IM CN Interworking), *source CN2.*

Status: **APPROVED - [WILL BE RAISED TO V5.0.0].**

NP-020349 Draft TS 29.278 v 2.0.0 (CAMEL Phase 4 - Stage 3 IM CN Interworking), *source CN2.*

Comments: Ian Doig [Motorola] asked for confirmation on the stability of this TS as it was not presented to any previous Plenary meeting. Keijo Palviainen [CN2 Chair] clarified that the TS is considered as 90% complete by CN2. There is a Lucent contribution [NP-020477] that lists the open issues with CAMEL4. These are considered as minor issues.

Status: **APPROVED - [WILL BE RAISED TO V5.0.0].**

NP-020477 CAMEL/IMS Open Issues, *source Lucent Technologies.*

Status: **NOTED.**

NP-020371 CRs to Rel-5 on Work Item IMS-CCR towards 24.008, *source CN1.*

Comments: There is a linkage between 24.008 CR 668 and a CR to 29.060 that was not agreed by CN4. There was a proposal NOT to approve the CN1 CR. However it was decided that although there was a linkage the CN1 CR did not depend on the CN4 CR.
It was decided to APPROVE the CN1 CR and task CN4 to complete the corresponding CR to 29.060 for approval at NP#18.

Status: **APPROVED.**

NP-020372 CRs to Rel-5 on Work Item IMS-CCR towards 24.008 and 24.229, *source CN1.*

Status: **APPROVED.**

NP-020373 CRs to Rel-5 on Work Item IMS-CCR towards 23.218, *source CN1.*

Status: **APPROVED.**

NP-020374 CRs to Rel-5 on Work Item IMS-CCR towards 24.228, *source CN1.*

Status: **APPROVED.**

NP-020375 CRs to Rel-5 on Work Item IMS-CCR towards 24.229, - pack 1, *source CN1.*

Comments: CR contained in N1-021815 has some problem. Keith Drage of Lucent says it is not implementable. The CR in N1-021814 has a problem. Lucent feel that the solution is not complete and further work is required on this issue in CN1. CN agreed in principle that later CRs making alignment between text and tables may be allowed at NP#18. With this understanding the CR contained in N1-021814 could be approved.

Lucent also had a problem with the 'forking' CR140r1 contained in N1-021812 and presented an alternative CR in NP-020481.

CRs to 24.229 141r1, 142, 143, 145 were APPROVED.

CR to 24.229 140r1 'FORKING CR' is referred back to CN1 for further study. *CN1 should only address the editorial and technical consistency issues such as those addressed in NP-020481. Any CRs exceeding the scope of this solution should be handled as separate CRs.*

CR 146r1 conflicts with the CRs to 24.229 contained in NP-020335 - REVISED to NP-020488

CR 141r1 conflicts with the CRs to 24.229 contained in NP-020335 - REVISED to NP-020489

Andrew Allen [Dynamicsoft] proposed to make changes and revisions to the conflicting CRs [141r1 and 146r1].

Andrew Howell [Motorola] had a concern with making changes to CRs that have been approved in CN1 and CN Plenary. The technical expertise is not always present in CN Plenary to ensure that the revised versions are correct. Also Andrew had some concerns with 'unofficial' versions of 24.229 circulating before MCC release the final version.

Richard Brook [Samsung] also had concerns with editing agreed CRs 'on the fly' in CN Plenary.

Spec	CR #	Rev	CAT	Rel	Tdoc Title	TDoc #	STATUS
24.229	140	1	F	Rel-5	Support of non-IMS forking.	N1-021812	REFERRED BACK to CN1
24.229	141	1	F	Rel-5	Adding MESSAGE to 24.229	N1-021814	REVISED to 0489
24.229	142		F	Rel-5	Public user identity to use for third party register	N1-021563	APPROVED
24.229	143	1	F	Rel-5	Replace P-Original-Dialog-ID header with unique data in Route header	N1-021797	APPROVED
24.229	145		F	Rel-5	Synchronize text with latest I-D for P-headers for charging	N1-021569	APPROVED
24.229	146	1	F	Rel-5	Service profiles and implicitly registered public user identities	N1-021815	REVISED to 0488

Status: **PART APPROVED.**

NP-020488 CRs to 24.229, - Service profiles and implicitly registered public user identities, *source Dynamicsoft.*

Status: **APPROVED.**

NP-020489 CRs to 24.229, - Adding MESSAGE to 24.229, *source Dynamicsoft.*

Status: **APPROVED.**

NP-020481 CR on " Support of non-IMS forking " towards 24.229, *source Lucent.*

Comments: Alternative CR to the one presented in CN1 CR Pack NP-020375.

Ericsson could not support the changes as they have not had time to review them.

Also the change is quite substantial and should be handled in CN1.

It was decided to attempt to approve the original CN1 CR. Lucent could not agree to that CR in the present form.

Eventually it was decided to send the original CN1 CR back to the working group for further study. CN1 were advised by Plenary that the final CR to be presented at NP#18 should be based on the technical content of the solution proposed in CR146r1, only examining the editorial and technical consistency issues.

Status: **REJECTED.**

NP-020376 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 2, source CN1.

Status: **APPROVED.**

NP-020377 CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 3, source CN1.

Comments: Certain CN1 delegates felt that the absence of a company representative in a working group meeting should not be a reason for blocking work in CN Plenary.

The CR contained in **N1-021780** had some errors in the cover sheet that lead to misunderstanding. Lucent strenuously objected to the use of the term IMS when SA1 use the term "IM Core Network subsystem". However, other delegates supported the use of the term IMS as it is used frequently throughout several 3GPP specifications.

Lucent sustained their objection to having different definitions of the term IMS in 3GPP. However CN Plenary overrode the objection and approved the CR.

Ian Park added that you can have a local definition of a term in a specification, although this is not used as a rule.

Andrew Allen [Dynamicsoft] added that the multiple definition of terms is a wider problem than simply CN specifications.

Nigel Berry [Lucent] added that when MCC find multiple definitions of the same term in the different specifications there should be some method to align the definitions to avoid the same terms being used in different groups meaning different things, thereby causing confusion.

The CR contained in N1-021780 was REJECTED. A new CR with a clear title and correct cover page was produced in **NP-020484**.

Keith Drage [Lucent] also spotted an error in the CR contained in **N1-021801**. The CN1 delegates in the plenary meeting supported Lucent's change and the CR was revised into a new tdoc **NP-020485**.

Spec	CR #	Rev	Tdoc Title	TDoc #	STATUS
24.229	154	1	Explicit listing of need to route response messages	N1-021801	REVISED to 0485
24.229	157	1	Include IP address in ICID	N1-021816	APPROVED
24.229	158		Reference updates	N1-021604	APPROVED
24.229	159		Abbreviation updates	N1-021605	APPROVED
24.229	163	1	Clarifications of allocation of IP address	N1-021817	APPROVED
24.229	169	1	Redirection of SUBSCRIBE dialogs after users registration	N1-021780	REJECTED
24.229	171	1	Verifications at the P-CSCF for subsequent request	N1-021802	APPROVED
24.229	174	1	Clarification of IMS signalling flag	N1-021781	APPROVED
24.229	176	1	Definition of a general-purpose PDP context for IMS	N1-021783	APPROVED

Status: **PART APPROVED.**

NP-020484 CRs to 24.229,-terminology of IMS, source CN1.

Status: **APPROVED.**

NP-020485 CRs to 24.229,- Explicit listing of need to route response messages, source CN1.

Status: **APPROVED.**

NP-020449 CR pack: IMS (Cx/Dx), source CN4.

Comments: CR to 23.008 filename is incorrect. Andrew Allen [Dynamicsoft] suspects that the CRs contained in N4-021030 and N4-021096 are not aligned with decisions in SA2. Dynamicsoft, Nokia and Ericsson objected to the CRs contained in **N4-021030 and N4-021096**.

Orange wished to see these CRs approved.

The CRs contained in N4-021030 and N4-021096. were referred back to CN4 for further study.

Spec	CR	Rev	Doc-2nd-Level	Subject	STATUS
23.008	055	1	N4-021030	Definition of the Subscribed media parameter	REFERRED BACK
29.228	001	2	N4-021022	Clarification of implicit registration	APPROVED
29.228	002	1	N4-021023	Clarification of user registration status query	APPROVED
29.228	003	1	N4-021024	Clarification of HSS initiated update of user profile	APPROVED
29.228	004	2	N4-021025	Clarification of MAR command	APPROVED
29.228	005	1	N4-021026	Conditionality of the SIP-Auth-Data-Item in MAA command	APPROVED
29.228	006	2	N4-021096	Definition of the Subscribed media parameter	REFERRED BACK
29.229	001		N4-020853	To add a reference to the new IETF RFC on SCTP checksum	APPROVED
29.229	003		N4-02089#6	Wrong format of Charging Function Addresses	APPROVED
29.229	005		N4-021027	Editorial mistake in the definition of command MAA	APPROVED

Status: **PART APPROVED.**

NP-020450 CR pack: IMS (Sh) source CN4.

Status: **APPROVED.**

NP-020451 CR pack: IMS (CAMEL control) CN4

Status: **APPROVED.**

8.2 OSA enhancements [OSA1]

NP-020395 Rel-5 CRs 29.198-01 to -14 OSA APIs : Add text to clarify relationship between 3GPP and ETSI/Parlay OSA specifications, source CN5.

Status: **APPROVED.**

NP-020427 Rel-5 CRs 29.198-01, source CN5.

Comments: Ian Doig [Motorola] questioned the addition of a duplicate reference in CR 019. Also the references are missing from the body of this TS. Musa Unmehopa [CN5 V.chair] explained that the references are contained in the other parts and subparts of 29.198.

Ian Doig felt that the references to each sub-part should be held in the reference section of the individual sub-parts and not in 29.198-01.

Ian Park agreed that each of the sub-parts of 29.198 should be 'stand alone' and have completed reference section. **CR019 is REJECTED** since the references were superfluous.

	Spec	CR	Rev	Subject	Doc-2nd-Level	STATUS
NP-020427	29.198-01	010	-	Addition to ObjectRef description in WSDL Mapping Rules	N5-020597	APPROVED
NP-020427	29.198-01	011	-	Addition of sequence tag to Choice types	N5-020598	APPROVED
NP-020427	29.198-01	012	-	Replace all occurrences of the xsd:anyURI type to xsd:string	N5-020599	APPROVED
NP-020427	29.198-01	013	-	Correction to Namespace mapping in WSDL Mapping Rules	N5-020600	APPROVED
NP-020427	29.198-01	014	-	Correction to xmlns:wSDL Namespace	N5-020601	APPROVED
NP-020427	29.198-01	015	-	Prepend class name to <message> name.	N5-020602	APPROVED

NP-020427	29.198-01	016	-	Correction to void return types in WSDL Mapping Rules	N5-020603	APPROVED
NP-020427	29.198-01	017	-	Add missing CORBA realization rules in Part 1	N5-020738	APPROVED
NP-020427	29.198-01	018	-	Add general introduction to the OSA APIs in Part 1	N5-020740	APPROVED
NP-020427	29.198-01	019	-	Add references to ITU-T/ANSI for encoding of Carrier selection	N5-020758	REJECTED

Status: **PART APPROVED.**

NP-020428 Rel-5 CRs 29.198-03, source CN5.

Status: **APPROVED.**

NP-020429 Rel-5 CR 29.198-04-1, source CN5.

Status: **APPROVED.**

NP-020430 Rel-5 CRs 29.198-04-2, source CN5.

Status: **APPROVED.**

NP-020431 Rel-5 CRs 29.198-04-3, source CN5.

Comments: Ian Doig added that the missing references (REJECTED IN NP-020427) are introduced in the text of CR004.

It was suggested to add the definition of the Reference to CR004. However as this specification is developed in association with external bodies, the CN5 Vice Chair asked for more time to consider this.

Finally CN decided to APPROVE the CR even though there is a missing definition of a reference. However CN5 are asked to address the question of the missing reference definitions in the sub-parts of 29.198. MCC will correct the missing references in CR004.

Status: **APPROVED.**

NP-020432 Rel-5 CRs 29.198-05, source CN5.

Status: **APPROVED.**

NP-020433 Rel-5 CRs 29.198-06, source CN5.

Status: **APPROVED.**

NP-020434 Rel-5 CRs 29.198-07, source CN5.

Status: **APPROVED.**

NP-020435 Rel-5 CRs 29.198-08, source CN5.

Status: **APPROVED.**

NP-020436 Rel-5 CRs 29.198-11, source CN5.

Status: **APPROVED.**

NP-020437 Rel-5 CRs 29.198-12, source CN5.

Status: **APPROVED.**

NP-020439 Rel-5 CRs 29.198-13, source CN5.

Status: **APPROVED.**

NP-020440 Rel-5 CRs 29.198-14, source CN5.

Status: **APPROVED.**

8.3 CAMEL Phase 4 [CAMEL4]

NP-020342 CRs to Rel-5 WI CAMEL4, pack 3, source CN2.

Status: **APPROVED.**

NP-020343 CRs to Rel-5 WI CAMEL4, pack 4 source CN2.

Status: **APPROVED.**

NP-020344 CRs to Rel-5 WI CAMEL4, pack 5 source CN2.

Comments: Revised before presentation.

Status: **Revised to NP-020476**

? **REVISED** ?

NP-020476 CRs to Rel-5 WI CAMEL4, pack 5 source CN2.

Comments: CR431 is a CAT C, although it could have been labelled as CAT-F.

Status: **APPROVED.**

NP-020345 CRs to Rel-5 WI CAMEL4, pack 6 source CN2.

Status: **APPROVED.**

NP-020346 CRs to Rel-5 WI CAMEL4, pack 7 source CN2.

Comments: Nokia wants to refer back these CRs on warning tones to CN2.

Ian Doig [Motorola] suggested pushing this back to Rel-6

However, it is considered that this is required functionality for CAMEL4 for Rel-5.

CN2 should consider if the CRs presented to NP#18 meeting are best classified as CAT B or CAT F.

Status: **REFERRED BACK TO CN2 FOR FURTHER STUDY.**

NP-020347 CRs to Rel-5 WI CAMEL4, pack 8 source CN2.

Comments: The corresponding SA1 CRs are to be presented to SA#17.

MCC need to track that the SA1 CR has been approved in SA Plenary.

Status: **CONDITIONALLY APPROVED.**

NP-020352 Update of CAMEL4 Work Item Description in Rel-5 for TSG CN CN2 Chair

Comments: The specs for the linked Work Item CAMEL support of IMS services are listed in this WID, but they are also covered in a separate WID.

Status: **REVISED to 0486.**

? **REVISED** ?

NP-020486 Update of CAMEL4 Work Item Description in Rel-5 for TSG CN CN2 Chair

Status: **APPROVED.**

NP-020452 CR pack: CAMEL phase 4: general corrections source CN4.

Status: **APPROVED.**

NP-020453 CR pack: CAMEL phase 4: partial implementation, source CN4.

Condition is that SA1 CRs to 22.078 are approved in SA#17. MCC will track this.

Status: **APPROVED.**

8.4 Location Service Enhancements **[LCS1]**

NP-020460 CR pack: LCS Rel-5, source CN4.

Status: **APPROVED.**

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

NP-020350 GGSN DiffServ function interactions and descriptions. , source Nortel Networks.

Status: **WITHDRAWN.**

NP-020351 CR pack on DiffServ Function in 29.207, source Nortel Networks.

Status: **WITHDRAWN.**

NP-020380 CR to Rel-5 on Work Item QoS towards 24.008, source CN1.

Status: **APPROVED.**

NP-020409 CRs to Rel-5 WI E2EQOS (part 1), source CN3.

Comments: Hannu Hietalahti [Nokia] asked why UE related procedures which are already present in TS.24.229 have been duplicated in 27.060. Also CN3 specifications are not usually considered by Mobile implementers.

Norbert recommends that 27.060 should be considered by UE manufacturers along with the other 27 series specifications managed by CN3.

Motorola UE experts have not seen this CR, but do not object to them.

CN Plenary recommends that the UE manufacturers be aware of the E2EQoS work that is ongoing in CN3.

Status: **APPROVED.**

NP-020410 CRs to Rel-5 WI E2EQOS (part 2: Forking) , source CN3.

Comments: There are 2 CRs that link to the CN1 CRs on 'Forking'. Nigel Berry [Lucent] had some concerns approving the CN3 CR knowing that the CN1 CRs have been referred back to the working group.

However CN1 have been guided to develop their forking CR based on the 'technical' content of the original CN1 CR. In that case the CN3 CR should not be affected.

Status: **APPROVED.**

NP-020411 CRs to Rel-5 WI E2EQOS (part 3: 29.207) , source CN3.

Comments: N3-020715 - the title 'various editorial changes' is a bit vague and there seems to be some technical changes.

Derek Richards [Megisto Systems Inc] had a question on what the GGSN does with the GPRS charging ID and why.

Daisuke Yokota [Lucent] said that there is a possibility to store the IC-ID in the GGSN.

CN3 have asked SA5 the reason for this and Norbert will provide the clarification to Derek offline.

Status: **APPROVED.**

NP-020412 CRs to Rel-5 WI E2EQOS (part 4: 29.208) , source CN3.

Status: **APPROVED.**

NP-020413 CRs to Rel-5 WI E2EQOS (part 5: DiffServ) , source CN3.

Status: **APPROVED.**

NP-020388 LS on "Proposed solutions for the identification of source IP address information over the Go interface", source SA2 [forwarded from CN3].

Comments: Answers the question raised by CN3 on identification of source IP address information. Relates to CN3 CRs in NP-020414.

Status: **NOTED.**

NP-020414 CRs to Rel-5 WI E2EQOS (part 6) , source CN3.

Comments: Agreed under the condition SA2 agree the related CR to 23.207. This condition has been met (see LS in NP-020388). MCC will track if this linked CR is approved in SA#17.

Status: **CONDITIONALLY APPROVED.**

NP-020415 Open issues 29.207, source CN3.

Comments: All of the open items for 29.207 are to be completed and will remain in Rel-5.

Status: **NOTED.**

NP-020416 Open issues 29.208, source CN3.

Comments: All of the open items for 29.208 are to be completed and will remain in Rel-5.

Status: **NOTED.**

NP-020418 CN3 decision on DiffServ options , source Ericsson.

Status: **WITHDRAWN.**

8.6 Security enhancements [SEC1]

No input

8.7 Service Change and UDI Fallback [SCUDIF]

No input

8.8 Technical Enhancements and Improvements [TEI5]

NP-020381 CR to Rel-5 on Work Item TEI5 towards 24.008 with SA2 CR linkage, source CN1.

Comments: Agreed under the condition SA#17 agree the corresponding CR. MCC will track if this linked CR is approved in SA#17.

Status: **CONDITIONALLY APPROVED.**

NP-020382 CRs to Rel-5 on Work Item TEI5 towards 24.008, source CN1.

Comments: Siemens have an alternative proposal to the presented CR652 [contained in NP-020394].

CR 652 is replaced by the Siemens contribution.

Spec	CR	R.	C.	Rel	Tdoc Title	TDoc #	STATUS
24.008	561	3	F	Rel-5	MM behavior in case of a combined attach reject for the PS service	N1-021640	APPROVED
24.008	652		F	Rel-5	MS behavior in case of change of network mode of operation	N1-021638	REVISED to 0394
24.008	653	1	F	Rel-5	MS behavior in case of T3312 expiry	N1-021776	APPROVED
24.008	654	1	F	Rel-5	Ambiguous MM behavior in case of a failed combined Attach or RAU	N1-021777	APPROVED
24.008	687		F	Rel-5	Precedence of different RAU	N1-021741	APPROVED

Status: **PART APPROVED.**

NP-020394 CR 24.008-652r1 on MS behaviour in case of change of network mode of operation, source Siemens.

Comments: Proposed replacement for one CR in NP-020382. Corrects missing tables that were not included in the original CR. If we do not make these changes there is contradiction between the tables and the procedural text part.

Status: **APPROVED.**

NP-020383 CRs to Rel-5 on Work Item TEI5 towards 23.009, 23.122, 24.007, 43.068 and 43.069, source CN1.

Status: **APPROVED.**

NP-020454 CR pack: TEI_5, source CN4.

Comments: CR053 is replaced by Vodafone contribution in NP-020419.

Companion CN1 to 29.002CR473r1 has been referred back to the WG. Hence this one also goes back to CN4 for further study.

Spec	CR	Rev	Doc-2nd-L.	Phase	Subject	Cat	STATUS
23.083	010		N4-020808	Rel5	Determining the basic service for MT calls	F	APPROVED
29.002	465		N4-020841	Rel5	Clarification on Call Deflection	F	APPROVED
23.003	053		N4-020892	Rel5	Restructuring the IMEI to combine the TAC and FAC in Annex B	F	REVISED to 0419
24.080	024		N4-020895	Rel5	Correction of references to FACILITY information element	F	APPROVED
23.018	110		N4-020917	Rel5	Minor corrections to Process ICH_MSC	F	APPROVED
24.080	019	3	N4-021000	Rel5	Compatible upgrade to ASN.1:1997 of 24.080	F	APPROVED
29.002	437	3	N4-021001	Rel5	Compatible upgrade to ASN.1:1997 of 29002	F	APPROVED
23.018	109	1	N4-021039	Rel5	Determining the basic service for MT calls	F	APPROVED
29.002	470	1	N4-021040	Rel5	Correction to the usage of "Roaming not allowed" error	F	APPROVED
29.060	325	2	N4-021011	Rel5	RAB Setup Information for IPv6	F	APPROVED
29.060	329	1	N4-021110	Rel5	Addition of PCO IE to Update PDP context procedures	F	APPROVED
29.002	473	2	N4-021108	Rel5	Available codecs list and selected codec indication	F	REFERRED BACK CN4

Status: **PART APPROVED.**

NP-020419 CR 23.003-053r1 on Restructuring the IMEI to combine the TAC and FAC in Annex B, source Vodafone.

Comments: Proposed CR replaces on in the CR PACK in NP-020454 that corrects an error that was found in the CR after it was agreed in CN4. Nigel Berry highlighted that there will be an incompatibility between the corrected Rel-5 spec and the previous specs. It was clarified that there is no protocol incompatibility, but only an incompatibility in the description.

Status: **APPROVED.**

NP-020478 CR 29.002-373r3 on Available codecs list and selected codec indication, source Nokia.

Status: **WITHDRAWN.**

NP-020458 CR pack: TEI5: GERAN lu mode, source CN4.

Comments: CR from Siemens [NP-020399] that corrects the error due to directing CR to wrong version of 29.002.

Spec	CR	Rev	Doc-2nd-L.	Phase	Subject	Cat	STATUS
29.010	060		N4-020934	Rel5	Introduction of GERAN lu-mode	F	APPROVED
23.205	026	4	N4-021086	Rel5	Introduction of GERAN lu-mode	F	APPROVED
23.153	031	4	N4-021087	Rel5	Introduction of GERAN lu-mode	F	APPROVED
29.002	462	1	N4-021088	Rel5	Introduction of GERAN classmark	F	REVISED to 0399

Status: **PART APPROVED.**

NP-020399 CR 29.002-462r2 on Introduction of GERAN classmark, *source Siemens.*

Comments: Proposed replacement for a CR in NP-020458

Status: **APPROVED.**

8.9 Any other Rel-5 WI

NP-020384 CRs to Rel-5 on Work Item 3GSplit towards 24.008, *source CN1.*

Status: **APPROVED.**

NP-020407 CRs to Rel-5 WI CS Data, *source CN3.*

Status: **APPROVED.**

NP-020408 CRs to Rel-5 WI GPRS, *source CN3.*

Status: **APPROVED.**

NP-020417 CRs to Rel-5 WI GPRS (pack2) , *source CN3.*

Status: **APPROVED.**

NP-020455 CR pack: Shared networks: CRs independent of transport method for SNA access information, *source CN4.*

Status: **APPROVED.**

NP-020456 CR pack: Shared networks: SNA access information transported at MAP level, *source CN4.*

Status: **REJECTED.**

NP-020457 CR pack: Shared networks: SNA access information transported at BSSAP level, *source CN3.*

Comments: Linked to CRs approved in GERAN. In approving this PACK, the CRs in NP-0456 must be rejected.

Status: **APPROVED.**

NP-020459 CR pack: Global Text Telephony, *source CN4.*

Status: **APPROVED.**

9 Release 6

9.1 IMS Phase 2 [IMS]

NP-020385 **WID: IMS stage 3 enhancements**, *source CN1*.

Comments: Some clarification was requested on terminology IMS **stage** 2/3 or **phase** 2/3.

Correct terminology for this WID is IMS **Phase 2 Stage 3**.

The SA2 WID IMS Phase 2 Stage 2 will be the parent feature to be approved in SA#17.

Steve Mecrow [BT] suggested having the title "Rel-6 IMS Enhancements" and remove the concept of IMS phases. Alain Sultan [MCC] stated that SA prefer not to see Releases in WI titles.

It was decided to let SA plenary decide on the naming of the WI and CN will align the title of the stage 3 WID based on that decision.

There are still questions about how the Ipv4/Ipv6 interworking at the application level is being addressed. Clarification will be sought in the SA plenary.

Andrew Allen [Dynamicsoft] - asked that it be noted that this WID be used to cover the IETF identified interoperability work (beyond Rel-5). This was agreed by CN plenary although this can also done as an alignment to existing IETF drafts. Stephen Hayes [CN chair] stated that the LS to IETF is the correct indicator that interoperability issues can be tacked in CN WGs

Steve Mecrow [BT] stated that the WID timescales indicate completion in September 2003, suggesting Rel-6 cannot be completed before Sept 2003.

Steve Mecrow [BT] also mentioned that if CN1 do not have the related Ad hoc meeting these dates may slip back even further.

Hannu Hietalahti [CN1 chair] stressed that the WG should put "realistic" dates for completion of the work and let SA handle the release scheduling issues.

Several delegates and the CN chair supported the use of realistic timescales in WIDs.

Nigel Berry [Lucent] underlined that this is a good reason NOT to link the WID titles to releases.

Status: **APPROVED.**

9.2 Support of Presence Capability [PRESNC]

NP-020386 **WID: Support of the Presence Service in Core Network Signalling Protocols**, *source CN1*.

Comments: All CN WGs apart from CN5 have commented on this WID. The CN5 comments need to be added. This is done in NP-020491.

Status: **REVISED to 0491.**

? **REVISED** ?

NP-020491 **WID: Support of the Presence Service in Core Network Signalling Protocols**, *source Lucent*.

Comments: CN5 will have 2 new work tasks for CN5 for WID. The 'Presence' sub-part of TR 29.998 does not yet exist. At some point, CN5 expects to submit this new TR to CN.

It is possible that CR are required to the TS (29.198-14v500)

Ian Doig [Motorola] asked why IETF Drafts/RFCs are listed as affected specifications. Stephen Hayes clarified that is used as a useful 'tracking' tool in the WID. A similar technique was used in the IMS WID to highlight IETF dependencies.

Status: **APPROVED.**

9.3 Security Enhancements[SEC1]

No input

9.4 Emergency Call Enhancements [EMC1]

No input

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-020438 Rel-6 Draft Work Item Description for OSA Stage 3 Rel-6, *source CN5*.

Comments: Question was raised to the use of Rel-6 in the title of the WID. Adrian Zoicas [MCC] clarified that this is the to capture all the OSA enhancements that are to be made in the Rel-6 timeframe.

Status: **APPROVED.**

9.8 Multimedia Broadcast and Multicast Service [MBMS]

No input

9.9 Any other Rel-6 WI

NP-020387 **WID: Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3, source CN1.**

Comments: The WID mentions that work is Access independent including 3GPP2. Hannu Hietalahti [CN1 Chair, Nokia] clarified that there is no intention to document those parts which are specific to the access technology used by 3GPP2.

In response to a question from Derek Richards [Megisto Systems Inc] relating to dual IP stacks, IPv4 to IPv6, Stephen Hayes clarified that IP interworking is covered under the CN3 Work item Interworking between IMS and PS networks.

IPv4 to IPv6 interworking is currently being developed in SA2 and CN working groups are holding back until they get some guidance from SA2.

The term "transcoder" should be replaced by the term "CODEC". Also the limiting of the number of combinations of CODECs in the network for which interworking is needed is an issue that needs further study.

It was noted that the WID is CN1 specific and may need to be examined across the CN WGs later. Further updates to the WID are expected as the work matures.

Status: **APPROVED.**

NP-020461 **CR pack: TEI6, source CN4.**

Status: **REVISED TO 0475.**

? **REVISED** ?

NP-020475 **CR pack: TEI6, source CN4.**

Comments: The technical content of the CRs is not particularly controversial. However the issue of whether the CRs are included in Rel-5 or applied to a new Rel-6. version of TS29.060 raised some discussion.

The CRs were considered as minor changes and the CN4 group who studied the CRs thought they should not be applied to a frozen release.

CN agreed to apply the change to Rel-5. The CR cover sheet needs to be updated.

? **REVISED** ?

NP-020493 **CR pack: TEI5, source CN4.**

Status: **APPROVED.**

NP-020462 **WID: Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface,**

Comments: This could be linked to the SA2 WID "IMS Phase 2 Stage 2" that will be presented to SA#17.

Status: **REVISED to 0494.**

? **REVISED** ?

NP-020494 **WID: Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface.**

Status: **APPROVED.**

10 TSG CN work organization

10.1 Principles for work organization within CN

No input

10.2 Terms of Reference

NP-020353 Update of CN2 Terms of Reference CN2 Chair

Status: **APPROVED.**

10.3 Support Arrangements

No input

10.4 Working methods / Work Style

No input

10.5 Future Meeting Schedule

NP-020483 2003 Meeting schedule Source: MCC.

Comments: Individual WGs are free to organise additional meetings as they feel necessary.

Status: **APPROVED.**

Sep 2002				
TITLE	TYPE	DATES	LOCATION	CTRY
Joint CN WG Meeting (CN1, 2, 3, 4, 5)	WG	23 - 27 Sep 2002	Miami	US
Oct 2002				
3GPPCN1-Rel-6 adhoc	AH	22 - 24 Oct 2002	Munich	DE
3GPPCN5#21	WG	28 - 31 Oct 2002	Dublin	IE
Nov 2002				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	11 - 15 Nov 2002	Bangkok	TH
Dec 2002				
3GPPCN#18	OR	4 - 6 Dec 2002	New Orleans	US
Feb 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	10 - 14 Feb 2003	Dublin [Ireland]	
Mar 2003				
3GPPCN#19	OR	12 - 14 Mar 2003	Jersey Island	UK
May 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	19 - 23 May 2003	<i>Somewhere, NA Friends</i>	
Jun 2003				
3GPPCN#20	OR	4 - 6 Jun 2003	HÄMEENLINNA	FI
Aug 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	18 - 22 Aug 2003	<i>Sophia, ETSI</i>	<i>FR</i>
Sep 2003				
3GPPCN#21	OR	17 - 19 Sep 2003	DE	DE
Oct 2003				
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	27 - 31 Oct 2003	<i>China, Ericsson</i>	<i>CN</i>
Dec 2003				
3GPPCN#22	OR	10 - 12 Dec 2003	TBD	US
Mar 2004				
3GPPCN#23	OR	10 - 12 Mar 2004	CHINA	CN
Jun 2004				
3GPPCN#24	OR	2 - 4 Jun 2004	TBD	
Sep 2004				
3GPPCN#25	OR	8 - 10 Sep 2004	US	US

11 Specifications in TSG-CN domain

NP-020464 CR 010 to 21.101: "Correction to list of specs" *source JMM, MCC*
Status: **WITHDRAWN.**

NP-020465 CR 008 to 21.102: "Correction to list of specs" *source JMM, MCC*
Status: **NOTED.**

NP-020466 CR 001 to 21.103: "Correction to list of specs" *source JMM, MCC*
Status: **NOTED.**

NP-020467 CR 008 to 01.01: "GSM Release 1999 specifications" *source JMM, MCC*
Status: **NOTED.**

NP-020468 CR 005 to 41.102: "GSM Release 4 Specifications" *source JMM, MCC*
Status: **NOTED.**

NP-020469 CR 001 to 41.103: "Correction to list of specs" *source JMM, MCC*
Status: **NOTED.**

NP-020470 Specs status list prior to TSGs#17 *source JMM, MCC*
Status: **NOTED.**

NP-020471 List of specs / releases *source JMM, MCC*
Status: **NOTED.**

12 Review of 3GPP Work Plan

NP-020331 3GPP Work Plan *Source: MCC.*
Status: **NOTED.**

NP-020332 3GPP Work Plan [Slide Presentation] *Source: MCC.*
Comments: Updates from the outcome of TSG#17 meetings will be input to the version to be presented to SA#17 meeting.
Status: **NOTED**

13 Postponed issues from earlier in the meeting

No Input.

14 Any other business

15 Close of Meeting

The Chairman thanked the host, delegates and MCC for their participation, and closed the meeting at 16:00 on Friday 6th September.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

TDoc #	Tdoc Title	LS to	LS cc	LS
NP-020480	Reply LS on Media grouping	CN1, SA2	SA, CN3	-
NP-020492	Response to IETF LS on Interoperability Issues and SIP in IMS	SA	-	-

A.2 New TSs /TRs Approved

TDoc #	Type	Spec	N_Vers	Tdoc Title	Source
NP-020348	TS	23.278	5.0.0	TS 23.278 v 2.1.0 (CAMEL Phase 4 - Stage 2 IM CN Interworking)	CN2
NP-020349	TS	29.278	5.0.0	TS 29.278 v 2.0.0 (CAMEL Phase 4 - Stage 3 IM CN Interworking)	CN2

A.3 New / Revised Work Items Approved

TDoc #	Tdoc Title	Source	Rel
NP-020385	IMS stage 3 enhancements	CN1	Rel-6
NP-020387	Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3	CN1	Rel-6
NP-020438	Work Item Description for OSA Stage 3 Rel-6	CN5	Rel-6
NP-020486	CAMEL4 Work Item Description in Rel-5 for TSG CN	CN2	Rel-5
NP-020491	Support of the Presence Service in Core Network Signalling Protocols	Lucent	Rel-6
NP-020494	Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface	CN4	Rel-6

A.4 Status of CRs following TSG CN meeting #17

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
03.16	A045		R98	F	NP-020448	N4-021089	approved	Introduction of Call Deflection	7.5.0	7.6.0	N4	Cal Deflection
04.08	A1121	1	R97	F	NP-020370	N1-021861	approved	Support of GTT (CTM)	6.15.0	6.17.0	N1	GTT
04.08	A1123		R98	A	NP-020370	N1-021845	approved	Support of GTT (CTM)	7.14.0	7.16.0	N1	GTT
23.003	047	2	R99	F	NP-020474	N4-021064	Approved	Clarification on the definition of DNS	3.10.0	3.11.0	N4	GPRS
23.003	047	2	R99	F	NP-020443	N4-021064	revised	Clarification on the definition of DNS	3.10.0	3.11.0	N4	GPRS
23.003	048	2	Rel-4	A	NP-020474	N4-021065	Approved	Clarification on the definition of DNS	4.4.0	4.5.0	N4	GPRS
23.003	048	2	Rel-4	A	NP-020443	N4-021065	revised	Clarification on the definition of DNS	4.4.0	4.5.0	N4	GPRS
23.003	049	3	Rel-5	F	NP-020474	N4-021080	Approved	Clarification on the definition of DNS	5.3.0	5.4.0	N4	GPRS
23.003	049	3	Rel-5	A	NP-020443	N4-021080	revised	Clarification on the definition of DNS	5.3.0	5.4.0	N4	GPRS
23.003	050	1	Rel-5	B	NP-020455	N4-021101	approved	Support for Shared Network in connected mode: definition of SNA	5.3.0	5.4.0	N4	TEI5
23.003	053		Rel-5	F	NP-020454	N4-020892	revised	Restructuring the IMEI to combine the TAC and FAC in Annex B	5.3.0	5.4.0	N4	TEI5
23.003	053	1	Rel-5	F	NP-020419		approved	Restructuring the IMEI to combine the TAC and FAC in Annex B	5.3.0	5.4.0	N4	TEI5
23.003	054		Rel-5	F	NP-020451	N4-020811	approved	SCCP sub-system Number for IM-SSF	5.3.0	5.4.0	N4	IMS-CAMEL
23.008	054	1	Rel-5	B	NP-020451	N4-021012	approved	the Organisation of CAMEL IMS Data for	5.1.0	5.2.0	N4	IMS-CAMEL
23.008	055	1	Rel-5	B	NP-020449	N4-021030	rejected	Definition of the Subscribed media parameter	5.1.0	5.2.0	N4	IMS
23.008	056	1	Rel-5	C	NP-020453	N4-021095	approved	Handling of partial implementations of CAMEL phase 4	5.1.0	5.2.0	N4	CAMEL4
23.008	057		Rel-5	F	NP-020452	N4-021048	approved	Wrong Camel capability handling for the O-CSI, T-CSI, VT-CSI and D-CSI	5.1.0	5.2.0	N4	CAMEL4
23.009	073	5	Rel-5	F	NP-020366	N1-021858	rejected	Correction for Inter-MSC relocation procedure due to multiple codecs	5.1.0	5.2.0	N1	TRFO-OOBTC
23.009	073	6	Rel-5	F	NP-020472	NP-020472	rejected	Correction for Inter-MSC relocation procedure due to multiple codecs	5.1.0		N1	TRFO-OOBTC
23.009	078		R99	F	NP-020366	N1-021683	approved	Correction to codec handling in Inter-MSC Handover	3.10.0	3.11.0	N1	TRFO-OOBTC
23.009	079		Rel-4	A	NP-020366	N1-021684	approved	Correction to codec handling in Inter-MSC Handover	4.4.0	4.5.0	N1	TRFO-OOBTC
23.009	080	1	Rel-5	B	NP-020383	N1-021789	approved	Support for Shared Network Area	5.1.0	5.2.0	N1	TEI5
23.014	004	2	R99	F	NP-020365	N1-021653	approved	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP	3.1.0	3.2.0	N1	GSM/UMTS interworking
23.014	005	1	Rel-4	A	NP-020365	N1-021654	approved	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP	4.0.0	4.1.0	N1	GSM/UMTS interworking
23.014	006		Rel-5	A	NP-020365	N1-021655	approved	Dual Tone Multi-Frequency signalling : Support in the whole 3GPP	5.0.0	5.1.0	N1	GSM/UMTS interworking
23.016	027		R99	A	NP-020448	N4-020836	approved	Introduction of Call Deflection	3.8.0	3.9.0	N4	Cal Deflection
23.016	028		Rel-4	A	NP-020448	N4-020837	approved	Introduction of Call Deflection	4.1.0	4.2.0	N4	Cal Deflection
23.016	029		Rel-5	A	NP-020448	N4-020838	approved	Introduction of Call Deflection	5.0.0	5.1.0	N4	Cal Deflection
23.018	109	1	Rel-5	F	NP-020454	N4-021039	approved	Determining the basic service for MT calls	5.3.0	5.4.0	N4	TEI5
23.018	110		Rel-5	F	NP-020454	N4-020917	approved	Minor corrections to Process ICH_MSC	5.3.0	5.4.0	N4	TEI5
23.018	111		Rel-5	F	NP-020452	N4-020965	approved	Setting of Leg1_Status Variable	5.3.0	5.4.0	N4	CAMEL4
23.078	411	1	Rel-4	F	NP-020341	N2-020754	approved	CAMEL3 inter-working with Rel-4 GPRS barring	4.5.1	4.6.0	N2	CAMEL3
23.078	412	1	Rel-5	B	NP-020343	N2-020768	approved	CPH clarification on overall SDL architecture	5.0.0	5.1.0	N2	CAMEL4
23.078	414		Rel-5	F	NP-020343	N2-020655	approved	Move Leg not allowed before Active phase of "normal" A-B call	5.0.0	5.1.0	N2	CAMEL4
23.078	415	1	Rel-5	F	NP-020343	N2-020770	approved	Disconnect of penultimate leg in CSID1	5.0.0	5.1.0	N2	CAMEL4
23.078	416	3	Rel-5	C	NP-020347	N2-020659	approved	Handling of partial implementations of CAMEL phase 4	5.0.0	5.1.0	N2	CAMEL4
23.078	417		Rel-5	C	NP-020345	N2-020663	approved	Removal of ChargingNotification feature	5.0.0	5.1.0	N2	CAMEL4
23.078	418	2	Rel-5	B	NP-020346	N2-020794	rejected	Playing of Warning Tones	5.0.0	5.1.0	N2	CAMEL4

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
23.078	419	1	Rel-5	F	NP-020343	N2-020771	approved	No use of Call Segment ID for the directgsmSCF - gsmSRF case	5.0.0	5.1.0	N2	CAMEL4
23.078	420	1	Rel-5	D	NP-020345	N2-020785	approved	Clean-up of LocationInformation table for Call_Accepted DP	5.0.0	5.1.0	N2	CAMEL4
23.078	421		Rel-5	F	NP-020342	N2-020671	approved	Correction of clause 4.3.3 N-CSI	5.0.0	5.1.0	N2	CAMEL4
23.078	422		Rel-5	F	NP-020342	N2-020675	approved	Inconsistency for the negotiated Camel Capability handling of the D-CSI	5.0.0	5.1.0	N2	CAMEL4
23.078	423		Rel-5	F	NP-020343	N2-020681	approved	Change "Initial Call Segment" to "CSID1"	5.0.0	5.1.0	N2	CAMEL4
23.078	424		Rel-5	F	NP-020343	N2-020683	approved	Removal of DP_MidCall state from CAMEL_EXPORT_LEG_MSC	5.0.0	5.1.0	N2	CAMEL4
23.078	425		Rel-5	F	NP-020343	N2-020684	approved	FitN in Perform Call Handling ack	5.0.0	5.1.0	N2	CAMEL4
23.078	426	1	Rel-5	F	NP-020344	N2-020792	reissued	CSA_gsmSSF: Handling signals in states such as DL_ack	5.0.0	5.1.0	N2	CAMEL4
23.078	426	1	Rel-5	F	NP-020476	N2-020792	approved	CSA_gsmSSF: Handling signals in states such as DL_ack	5.0.0	5.1.0	N2	CAMEL4
23.078	428		Rel-5	F	NP-020344	N2-020687	reissued	Removal of "Note that" in descriptions of CPH operations	5.0.0	5.1.0	N2	CAMEL4
23.078	429		Rel-5	F	NP-020476	N2-020688	approved	Wrong State Name in CSA_gsmSSF	5.0.0	5.1.0	N2	CAMEL4
23.078	429		Rel-5	F	NP-020344	N2-020688	reissued	Wrong State Name in CSA_gsmSSF	5.0.0	5.1.0	N2	CAMEL4
23.078	430		Rel-5	F	NP-020476	N2-020689	approved	Change Int_Continue_Without_Leg2 to Int_Disconnect_Leg (Leg2)	5.0.0	5.1.0	N2	CAMEL3
23.078	430		Rel-5	F	NP-020344	N2-020689	reissued	Change Int_Continue_Without_Leg2 to Int_Disconnect_Leg (Leg2)	5.0.0	5.1.0	N2	CAMEL3
23.078	431		Rel-5	C	NP-020476	N2-020690	approved	Contents of CWA at MidCall DP	5.0.0	5.1.0	N2	CAMEL4
23.078	431		Rel-5	C	NP-020344	N2-020690	reissued	Contents of CWA at MidCall DP	5.0.0	5.1.0	N2	CAMEL4
23.078	432	1	Rel-5	D	NP-020343	N2-020779	approved	Introduction of CPH Definitions	5.0.0	5.1.0	N2	CAMEL4
23.078	433	1	R99	F	NP-020340	N2-020751	approved	Correction in CAMEL_MO_Dialled_Services procedure	3.13.0	3.14.0	N2	CAMEL3
23.078	434	1	Rel-4	A	NP-020340	N2-020752	approved	Correction in CAMEL_MO_Dialled_Services procedure	4.5.1	4.6.0	N2	CAMEL3
23.078	435	1	Rel-5	A	NP-020340	N2-020753	approved	Correction in CAMEL_MO_Dialled_Services procedure	5.0.0	5.1.0	N2	CAMEL3
23.078	441	1	R99	F	NP-020340	N2-020742	approved	Inconsistent description on ACR: time information	3.13.0	3.14.0	N2	CAMEL3
23.078	442	1	Rel-4	A	NP-020340	N2-020743	approved	Inconsistent description on ACR: time information	4.5.0	4.6.0	N2	CAMEL3
23.078	443	1	Rel-5	A	NP-020340	N2-020744	approved	Inconsistent description on ACR: time information	5.0.0	5.1.0	N2	CAMEL3
23.078	446	1	Rel-5	F	NP-020342	N2-020747	approved	Secondary PDP context for DP change of position context	5.0.0	5.1.0	N2	CAMEL3
23.078	447	2	Rel-5	F	NP-020342	N2-020793	approved	Detail description for applicability of call cases	5.0.0	5.1.0	N2	CAMEL4
23.078	450		Rel-5	A	NP-020341	N2-020755	approved	CAMEL3 inter-working with Rel-4 GPRS barring	5.0.0	5.1.0	N2	CAMEL3
23.081	004		R99	F	NP-020446	N4-020918	approved	Correction of 'Cause of no CLI' handling in SDLs	3.1.0	3.2.0	N4	TEI
23.081	005		Rel-4	A	NP-020446	N4-020919	approved	Correction of 'Cause of no CLI' handling in SDLs	4.0.0	4.1.0	N4	TEI
23.081	006		Rel-5	A	NP-020446	N4-020920	approved	Correction of 'Cause of no CLI' handling in SDLs	5.0.0	5.1.0	N4	TEI
23.083	010		Rel-5	F	NP-020454	N4-020808	approved	Determining the basic service for MT calls	5.0.0	5.1.0	N4	TEI5
23.091	004		Rel-4	F	NP-020445	N4-020834	approved	Correction to check of ECT treatment indicator in SII2 parameter	4.0.0	4.1.0	N4	TEI4
23.091	005		Rel-5	A	NP-020445	N4-020835	approved	Correction to check of ECT treatment indicator in SII2 parameter	5.0.0	5.1.0	N4	TEI4
23.122	049	1	R99	F	NP-020369	N1-021768	approved	Removal of CBQ2	3.7.0	3.8.0	N1	COMPACT
23.122	050		Rel-4	A	NP-020369	N1-021635	approved	Removal of CBQ2	4.1.0	4.2.0	N1	COMPACT
23.122	051		Rel-5	A	NP-020369	N1-021636	approved	Removal of CBQ2	5.0.0	5.1.0	N1	COMPACT
23.122	052	1	Rel-5	F	NP-020383	N1-021809	approved	Applicability of the lists of "forbidden LAS"	5.0.0	5.1.0	N1	TEI5
23.122	053		R99	F	NP-020367	N1-021715	approved	Routing Area Update at network change	3.7.0	3.8.0	N1	TEI
23.122	054		Rel-4	F	NP-020367	N1-021717	approved	Routing Area Update at network change	4.1.0	4.2.0	N1	TEI
23.122	055		Rel-5	F	NP-020367	N1-021719	approved	Routing Area Update at network change	5.0.0	5.1.0	N1	TEI
23.153	031	4	Rel-5	F	NP-020458	N4-021087	approved	Introduction of GERAN lu-mode	5.1.0	5.2.0	N4	TEI5
23.153	040		Rel-4	F	NP-020444	N4-020940	approved	Initial Bitrate For TrFO	4.4.0	4.5.0	N4	OoBTC

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
23.153	041		Rel-5	A	NP-020444	N4-020941	approved	Initial Bitrate For TrFO	5.1.0	5.2.0	N4	OoBTC
23.153	042	1	Rel-4	F	NP-020444	N4-021003	approved	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	4.4.0	4.5.0	N4	OoBTC
23.153	043	1	Rel-5	A	NP-020444	N4-021004	approved	Handling of UMTS_AMR & UMTS_AMR_2 codecs in OoBTC	5.1.0	5.2.0	N4	OoBTC
23.205	026	4	Rel-5	B	NP-020458	N4-021086	approved	Introduction of GERAN lu-mode	5.2.0	5.3.0	N4	TEI5
23.205	029	1	Rel-5	F	NP-020459	N4-021073	approved	Misalignment between TS 23205 and TS 29232 for Global Text	5.2.0	5.3.0	N4	GTT
23.205	030	1	Rel-5	F	NP-020459	N4-021074	approved	Misalignment between TS 29.232 and TS 23.205 for Global Text	5.2.0	5.3.0	N4	GTT
23.205	032	1	Rel-4	F	NP-020463	N4-021057	approved	Correction on wrong message types for HO	4.5.0	4.6.0	N4	CSSPLIT
23.205	033	1	Rel-5	A	NP-020463	N4-021058	approved	Correction on wrong message types for HO	5.2.0	5.3.0	N4	CSSPLIT
23.218	021	1	Rel-5	F	NP-020373	N1-021828	approved	Service profiles and implicitly registered public user identities	5.1.0	5.2.0	N1	IMS-CCR
23.218	022	2	Rel-5	F	NP-020373	N1-021859	approved	Clarification on specialized charging server	5.1.0	5.2.0	N1	IMS-CCR
23.218	025	1	Rel-5	F	NP-020373	N1-021829	approved	Clarification on location information for IMS	5.1.0	5.2.0	N1	IMS-CCR
23.218	026	1	Rel-5	F	NP-020373	N1-021830	approved	Proposed change of term SPI to SPT	5.1.0	5.2.0	N1	IMS-CCR
23.218	027	1	Rel-5	F	NP-020373	N1-021831	approved	Support of originating requests from Application Servers	5.1.0	5.2.0	N1	IMS-CCR
23.910	033	-	R99	F	NP-020404	N3-020548	approved	Handling of M2 Bit for Handover	3.5.0		N3	CS Data Bearers
23.910	034	-	Rel-4	A	NP-020404	N3-020549	approved	Handling of M2 Bit for Handover	4.4.0		N3	CS Data Bearers
23.910	035	-	Rel-5	A	NP-020404	N3-020550	approved	Handling of M2 Bit for Handover	5.0.0		N3	CS Data Bearers
23.910	036	-	R99	F	NP-020404	N3-020600	approved	Removal of SDU error ratio for NT services	3.5.0		N3	CS Data Bearers
23.910	037	-	Rel-4	A	NP-020404	N3-020601	approved	Removal of SDU error ratio for NT services	4.4.0		N3	CS Data Bearers
23.910	038	-	Rel-5	A	NP-020404	N3-020602	approved	Removal of SDU error ratio for NT services	5.0.0		N3	CS Data Bearers
23.910	040	-	Rel-4	F	NP-020406	N3-020665	approved	Handling of CSD calls and Inter-MSC Relocation	4.4.0		N3	BICSN
23.910	041	-	Rel-5	A	NP-020406	N3-020694	approved	Handling of CSD calls and Inter-MSC Relocation	5.0.0		N3	BICSN
24.007	057	1	Rel-5	F	NP-020383	N1-021836	approved	Clarification of the CN release indicators	5.0.0	5.1.0	N1	TEI5
24.008	561	3	Rel-5	F	NP-020382	N1-021640	approved	MM behaviour in case of a combined attach reject for the PS service	5.4.0	5.5.0	N1	TEI5
24.008	643	2	Rel-5	B	NP-020384	N1-021747	approved	GERAN lu Mode Capability	5.4.0	5.5.0	N1	3GSplit
24.008	644		Rel-5	F	NP-020380	N1-021609	approved	Go related error code to UE	5.4.0	5.5.0	N1	QoS
24.008	648		R99	F	NP-020369	N1-021631	approved	Removal of CBQ2	3.12.0	3.13.0	N1	COMPACT
24.008	649		Rel-4	A	NP-020369	N1-021632	approved	Removal of CBQ2	4.7.0	4.8.0	N1	COMPACT
24.008	650		Rel-5	A	NP-020369	N1-021633	approved	Removal of CBQ2	5.4.0	5.5.0	N1	COMPACT
24.008	651	1	Rel-5	F	NP-020381	N1-021775	approved	Usage of the Service Request procedure	5.4.0	5.5.0	N1	TEI5
24.008	652		Rel-5	F	NP-020382	N1-021638	revised	MS behavior in case of change of network mode of operation	5.4.0	5.5.0	N1	TEI5
24.008	652	1	Rel-5	F	NP-020394		approved	MS behavior in case of change of network mode of operation	5.4.0	5.5.0	N1	TEI5
24.008	652	2	Rel-5	F	NP-020394		approved	MS behavior in case of change of network mode of operation	5.4.0		N1	TEI5
24.008	653	1	Rel-5	F	NP-020382	N1-021776	approved	MS behavior in case of T3312 expiry	5.4.0	5.5.0	N1	TEI5
24.008	654	1	Rel-5	F	NP-020382	N1-021777	approved	Ambiguous MM behavior in case of a failed combined Attach or RAU	5.4.0	5.5.0	N1	TEI5
24.008	665		R99	F	NP-020368	N1-021669	approved	Usage of Service Request type 'data'	3.12.0	3.13.0	N1	TEI
24.008	666		Rel-4	A	NP-020368	N1-021670	approved	Usage of Service Request type 'data'	4.7.0	4.8.0	N1	TEI
24.008	667		Rel-5	A	NP-020368	N1-021671	approved	Usage of Service Request type 'data'	5.4.0	5.5.0	N1	TEI
24.008	668		Rel-5	F	NP-020371	N1-021674	approved	Introduction of PCO in more session management messages	5.4.0	5.5.0	N1	IMS-CCR
24.008	669		Rel-5	F	NP-020372	N1-021678	approved	Request for DNS IPv6 server address	5.4.0	5.5.0	N1	IMS-CCR
24.008	670		Rel-5	F	NP-020371	N1-021680	approved	Clean-up of text for the PCO-IE	5.4.0	5.5.0	N1	IMS-CCR
24.008	671	3	R99	F	NP-020368	N1-021854	approved	Correction to service request procedure	3.12.0	3.13.0	N1	TEI

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.008	672	3	Rel-4	A	NP-020368	N1-021855	approved	Correction to service request procedure	4.7.0	4.8.0	N1	TEI
24.008	673	3	Rel-5	A	NP-020368	N1-021856	approved	Correction to service request procedure	5.4.0	5.5.0	N1	TEI
24.008	675		REL-5	F	NP-020371	N1-021704	approved	Indication of successful establishment of Signalling PDP context to the UE	5.4.0	5.5.0	N1	IMS-CCR
24.008	676	1	R99	F	NP-020368	N1-021761	approved	Routing Area Update at network change	3.12.0	3.13.0	N1	TEI
24.008	677	1	Rel-4	A	NP-020368	N1-021762	approved	Routing Area Update at network change	4.7.0	4.8.0	N1	TEI
24.008	678	1	Rel-5	A	NP-020368	N1-021763	approved	Routing Area Update at network change	5.4.0	5.5.0	N1	TEI
24.008	679	1	Rel-5	F	NP-020371	N1-021840	approved	Coding of Authorization Token in Traffic Flow Template	5.4.0	5.5.0	N1	IMS-CCR
24.008	687		Rel-5	F	NP-020382	N1-021741	approved	Precedence of different RAU	5.4.0	5.5.0	N1	TEI5
24.008	693	1	R99	A	NP-020370	N1-021862	approved	Support of GTT (CTM)	3.12.0	3.13.0	N1	GTT
24.008	694	1	Rel-4	A	NP-020370	N1-021863	approved	Support of GTT (CTM)	4.7.0	4.8.0	N1	GTT
24.080	019	3	Rel-5	F	NP-020454	N4-021000	approved	Upgrade of the ASN.1 version used in 24.080 (Rel-5)	5.1.0	5.2.0	N4	TEI5
24.080	024		Rel-5	B	NP-020454	N4-020895	approved	Correction of references to FACILITY information element	5.1.0	5.2.0	N4	TEI5
24.228	063	1	Rel-5	F	NP-020374	N1-021778	approved	Corection of the dns procedure	5.1.0	5.2.0	N1	IMS-CCR
24.228	064	1	Rel-5	F	NP-020374	N1-021798	approved	Add P-header examples to call flow MO#1a	5.1.0	5.2.0	N1	IMS-CCR
24.228	066	1	Rel-5	F	NP-020374	N1-021800	approved	Add P-header examples to call flow MT#1a	5.1.0	5.2.0	N1	IMS-CCR
24.228	067	1	Rel-5	F	NP-020336		approved	Remaining REGISTER and SUBSCRIBE flow updates	5.1.0		N1	IMS-CCR
24.228	068		Rel-5	F	NP-020374	N1-021664	approved	Addition of P-Visited-Network-ID to 24.228	5.1.0	5.2.0	N1	IMS-CCR
24.228	069	1	Rel-5	F	NP-020374	N1-021760	approved	Corrections to 24.228 flows	5.1.0	5.2.0	N1	IMS-CCR
24.228	070		Rel-5	F	NP-020374	N1-021712	approved	CallID of REGISTER requests	5.1.0	5.2.0	N1	IMS-CCR
24.229	140	1	Rel-5	F	NP-020375	N1-021812	rejected	Support of non-IMS forking.	5.1.0	5.2.0	N1	IMS-CCR
24.229	140	2	Rel-5	F	NP-020481		rejected	Support of non-IMS forking	5.1.0		N1	IMS-CCR
24.229	141	1	Rel-5	F	NP-020375	N1-021814	revised	Adding MESSAGE to 24.229	5.1.0	5.2.0	N1	IMS-CCR
24.229	141	2	Rel-5	F	NP-020489		Approved	Adding MESSAGE to 24.229	5.1.0	5.2.0	N1	IMS-CCR
24.229	142		Rel-5	F	NP-020375	N1-021563	approved	Public user identity to use for third party register	5.1.0	5.2.0	N1	IMS-CCR
24.229	143	1	Rel-5	F	NP-020375	N1-021797	approved	Replace P-Original-Dialog-ID header with unique data in Route header	5.1.0	5.2.0	N1	IMS-CCR
24.229	145		Rel-5	F	NP-020375	N1-021569	approved	Synchronize text with latest I-D for P-headers for charging	5.1.0	5.2.0	N1	IMS-CCR
24.229	146	1	Rel-5	F	NP-020375	N1-021815	revised	Service profiles and implicitly registered public user identities	5.1.0	5.2.0	N1	IMS-CCR
24.229	146	2	Rel-5	F	NP-020488		Approved	Service profiles and implicitly registered public user identities	5.1.0	5.2.0	N1	IMS-CCR
24.229	147		Rel-5	F	NP-020376	N1-021571	approved	S-CSCF decides when to include IOI	5.1.0	5.2.0	N1	IMS-CCR
24.229	148		Rel-5	F	NP-020376	N1-021572	approved	Clean up XML in clause 7.6	5.1.0	5.2.0	N1	IMS-CCR
24.229	149		Rel-5	F	NP-020376	N1-021573	approved	Fix clause 5.2.7.4 header	5.1.0	5.2.0	N1	IMS-CCR
24.229	150		Rel-5	F	NP-020376	N1-021589	approved	Removal of forward reference to non P-CSCF procedures	5.1.0	5.2.0	N1	IMS-CCR
24.229	151		Rel-5	F	NP-020376	N1-021590	approved	Deregistration of public user identities	5.1.0	5.2.0	N1	IMS-CCR
24.229	152		Rel-5	F	NP-020376	N1-021591	approved	Reauthentication trigger via other means	5.1.0	5.2.0	N1	IMS-CCR
24.229	153	1	Rel-5	F	NP-020379	N1-021792	withdrawn	Registration with intergrity protection	5.1.0	5.2.0	N1	IMS-CCR
24.229	153	2	Rel-5	F	NP-020335		revised	Registration with intergrity protection	5.1.0	5.2.0	N1	IMS-CCR
24.229	153	3	Rel-5	F	NP-020487		Approved	Registration with intergrity protection	5.1.0	5.2.0	N1	IMS-CCR
24.229	154	1	Rel-5	F	NP-020377	N1-021801	revised	Explicit listing of need to route response messages	5.1.0	5.2.0	N1	IMS-CCR
24.229	154	2	Rel-5	F	NP-020485		approved	Explicit listing of need to route response messages	5.1.0	5.2.0	N1	IMS-CCR
24.229	157	1	Rel-5	F	NP-020377	N1-021816	approved	Include IP address in ICID	5.1.0	5.2.0	N1	IMS-CCR
24.229	158		Rel-5	F	NP-020377	N1-021604	approved	Reference updates	5.1.0	5.2.0	N1	IMS-CCR

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.229	159		Rel-5	F	NP-020377	N1-021605	approved	Abbreviation updates	5.1.0	5.2.0	N1	IMS-CCR
24.229	163	1	Rel-5	F	NP-020377	N1-021817	approved	Clarifications of allocation of IP address	5.1.0	5.2.0	N1	IMS-CCR
24.229	169	1	Rel-5	F	NP-020377	N1-021780	rejected	Redirection of SUBSCRIBE dialogs after users registration	5.1.0	5.2.0	N1	IMS-CCR
24.229	171	1	Rel-5	F	NP-020377	N1-021802	approved	Verifications at the P-CSCF for subsequent request	5.1.0	5.2.0	N1	IMS-CCR
24.229	174	1	Rel-5	F	NP-020377	N1-021781	approved	Clarification of IMS signalling flag	5.1.0	5.2.0	N1	IMS-CCR
24.229	176	1	Rel-5	F	NP-020377	N1-021783	approved	Definition of a general-purpose PDP context for IMS	5.1.0	5.2.0	N1	IMS-CCR
24.229	177	2	Rel-5	F	NP-020372	N1-021833	approved	Request for DNS IPv6 server address	5.1.0	5.2.0	N1	IMS-CCR
24.229	178		Rel-5	F	NP-020378	N1-021679	approved	Error cases for PDP context modification	5.1.0	5.2.0	N1	IMS-CCR
24.229	183	1	Rel-5	F	NP-020378	N1-021791	approved	Incorporation of draft-ietf-sip-sec-agree-04.txt	5.1.0	5.2.0	N1	IMS-CCR
24.229	185	1	Rel-5	F	NP-020378	N1-021787	approved	User Initiated De-registration	5.1.0	5.2.0	N1	IMS-CCR
24.229	186	1	Rel-5	F	NP-020378	N1-021788	approved	Mobile initiated de-registration	5.1.0	5.2.0	N1	IMS-CCR
24.229	187	1	Rel-5	F	NP-020378	N1-021786	approved	CallID of REGISTER requests	5.1.0	5.2.0	N1	IMS-CCR
24.229	188	1	Rel-5	F	NP-020378	N1-021803	approved	Correction to the P-CSCF routing procedures	5.1.0	5.2.0	N1	IMS-CCR
24.229	189	1	Rel-5	F	NP-020378	N1-021793	approved	Registration procedures at P-CSCF	5.1.0	5.2.0	N1	IMS-CCR
24.229	192	1	Rel-5	F	NP-020378	N1-021827	approved	Corrections related to the P-Access-Network-Info header	5.1.0	5.2.0	N1	IMS-CCR
24.229	194	1	Rel-5	F	NP-020378	N1-021794	approved	Chapter to describe the registration event	5.1.0	5.2.0	N1	IMS-CCR
24.229	196	-	Rel-5	F	NP-020484		approved	Definition of IMS	5.1.0	5.2.0	N1	IMS-CCR
27.001	078	-	R99	F	NP-020404	N3-020597	approved	Removal of SDU error ratio for NT services	3.10.0		N3	CS Data Bearers
27.001	079	-	Rel-4	A	NP-020404	N3-020598	approved	Removal of SDU error ratio for NT services	4.7.0		N3	CS Data Bearers
27.001	080	-	Rel-5	A	NP-020404	N3-020599	approved	Removal of SDU error ratio for NT services	5.2.0		N3	CS Data Bearers
27.060	020	1	Rel-5	F	NP-020410	N3-020719	approved	Support for forking in the UE	5.1.0		N3	E2EQoS
27.060	021	-	Rel-5	F	NP-020409	N3-020613	approved	Align TS 27.060 with TS 23.207 changes according to contribution S2-	5.1.0		N3	E2EQoS
27.060	023	2	Rel-5	F	NP-020408	N3-020669	approved	Configuration of Domain Name System (DNS) server IPv6 addresses	5.1.0		N3	TEI
27.060	024	2	Rel-5	F	NP-020409	N3-020689	approved	IMS related functions for the UE	5.1.0		N3	E2EQoS
27.060	025	-	R99	F	NP-020403	N3-020657	approved	QoS in case of Streaming and Conversational	3.6.0		N3	GPRS
27.060	026	-	Rel-4	A	NP-020403	N3-020658	approved	QoS in case of Streaming and Conversational	4.1.0		N3	GPRS
27.060	027	-	Rel-5	A	NP-020403	N3-020659	approved	QoS in case of Streaming and Conversational	5.1.0		N3	GPRS
29.002	437	3	Rel-5	F	NP-020454	N4-021001	approved	Upgrade of the ASN.1 version used in 29.002 (Rel-5)	5.2.0	5.3.0	N4	TEI5
29.002	462	1	Rel-5	F	NP-020458	N4-021088	revised	Introduction of GERAN classmark	5.2.0	5.3.0	N4	TEI5
29.002	462	2	Rel-5	F	NP-020399		approved	Introduction of GERAN classmark	5.2.0	5.3.0	N4	TEI5
29.002	465		Rel-5	F	NP-020454	N4-020841	approved	Clarification on Call Deflection	5.2.0	5.3.0	N4	TEI5
29.002	466	1	Rel-5	B	NP-020456	N4-021102	rejected	Support for Shared Network in connected mode: definition of SNA	5.2.0	5.3.0	N4	TEI5
29.002	470	1	Rel-5	F	NP-020454	N4-021040	approved	Correction to the usage of Unknown Subscriber (Gprs Subscription	5.2.0	5.3.0	N4	TEI5
29.002	471	1	Rel-5	A	NP-020446	N4-021041	approved	Clarifications on Send Identification	5.2.0	5.3.0	N4	TEI
29.002	473	2	Rel-5	F	NP-020454	N4-021108	rejected	Available codecs list and selected codec indication	5.2.0	5.3.0	N4	TEI5
29.002	477		R99	F	NP-020446	N4-021042	approved	Clarifications on Send Identification	3.13.0	3.14.0	N4	TEI
29.002	478		Rel-4	A	NP-020446	N4-021043	approved	Clarifications on Send Identification	4.8.0	4.9.0	N4	TEI
29.002	479	2	Rel-5	C	NP-020453	N4-021094	approved	Handling of partial implementations of CAMEL phase 4	5.2.0	5.3.0	N4	CAMEL4
29.002	480		Rel-5	C	NP-020452	N4-021047	approved	Removal of ChargingNotification feature	5.2.0	5.3.0	N4	CAMEL4
29.002	481		Rel-5	B	NP-020451	N4-020810	approved	Extension to ATM for Camel control of IMS	5.1.0	5.2.0	N4	IMS-CAMEL
29.002	482		Rel-5	B	NP-020451	N4-020809	approved	Support of MAP Si interface	5.1.0	5.2.0	N4	IMS-CAMEL

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.007	053	3	Rel-5	F	NP-020407	N3-020685	approved	Determining the basic service for MT calls	5.2.0		N3	TEI
29.007	054	1	Rel-4	F	NP-020406	N3-020664	approved	Handling of CSD calls and Inter-MSC Relocation	4.4.0		N3	BICSN
29.007	055	1	Rel-5	A	NP-020406	N3-020693	approved	Handling of CSD calls and Inter-MSC Relocation	5.2.0		N3	BICSN
29.010	057	1	R99	F	NP-020447	N4-021051	revised	Addition of an error mapping table for MAP Update Location operation	3.8.0	3.9.0	N4	TEI
29.010	057	2	R99	F	NP-020396	NP-020396	approved	Addition of an error mapping table for MAP Update Location operation	3.8.0		N4	TEI
29.010	057	2	R99	F	NP-020396	NP-020396	approved	Addition of an error mapping table for MAP Update Location operation	3.8.0		N4	TEI
29.010	058	1	Rel-5	B	NP-020456	N4-021103	rejected	Support for Shared Network in connected mode: definition of SNA	5.0.0	5.1.0	N4	TEI5
29.010	060		Rel-5	F	NP-020458	N4-020934	approved	Introduction of GERAN lu-mode	5.0.0	5.1.0	N4	TEI5
29.010	067		Rel-5	A	NP-020460	N4-020954	approved	Further clarification of parameter mapping in Location Acquisition	5.0.0	5.1.0	N4	LCS1
29.010	068	1	Rel-4	A	NP-020447	N4-021052	revised	Addition of an error mapping table for MAP Update Location operation	4.3.0	4.4.0	N4	TEI
29.010	068	2	Rel-4	A	NP-020397	NP-020397	approved	Addition of an error mapping table for MAP Update Location operation	4.3.0		N4	TEI
29.010	068	2	Rel-4	A	NP-020397	NP-020397	approved	Addition of an error mapping table for MAP Update Location operation	4.3.0		N4	TEI
29.010	069	1	Rel-5	A	NP-020447	N4-021053	revised	Addition of an error mapping table for MAP Update Location operation	5.0.0	5.1.0	N4	TEI
29.010	069	2	Rel-5	A	NP-020398	NP-020398	approved	Addition of an error mapping table for MAP Update Location operation	5.0.0		N4	TEI
29.010	069	2	Rel-5	A	NP-020399	NP-020398	approved	Addition of an error mapping table for MAP Update Location operation	5.0.0		N4	TEI
29.010	075		Rel-5		NP-020457	N4-021104	approved	BSSAP CRSupport for Shared Network in connected mode: definition of	5.0.0	5.1.0	N4	TEI5
29.060	322	1	Rel-6	F	NP-020461	N4-021008	revised	Clarification re. Response messages	5.2.0	6.0.0	N4	TEI6
29.060	322	2	Rel-5	F	NP-020493		approved	Clarification re. Response messages	5.2.0		N4	TEI6
29.060	322	2	Rel-6	F	NP-020475	N4-021008	revised	Clarification re. Response messages	5.2.0	6.0.0	N4	TEI6
29.060	323	1	Rel-6	F	NP-020461	N4-021009	revised	Clarificatin re. Version Not Supported	5.2.0	6.0.0	N4	TEI6
29.060	323	2	Rel-5	F	NP-020493		approved	Clarificatin re. Version Not Supported	5.2.0		N4	TEI6
29.060	323	2	Rel-6	F	NP-020475	N4-021009	revised	Clarificatin re. Version Not Supported	5.2.0	6.0.0	N4	TEI6
29.060	324	1	Rel-5	F	NP-020474	N4-020985	Approved	Incorrect reference	5.2.0	5.3.0	N4	TEI5
29.060	324	1	Rel-6	F	NP-020461	N4-020985	revised	Incorrect reference	5.2.0	6.0.0	N4	TEI6
29.060	325	2	Rel-5	C	NP-020454	N4-021011	approved	RAB Setup Information for IPv6	5.2.0	5.3.0	N4	TEI5
29.060	326	1	R99	F	NP-020474	N4-021067	Approved	Clarification on the coding of RANAP cause value	3.13.0	3.14.0	N4	GTP enhancement
29.060	326	1	R99	F	NP-020443	N4-021067	revised	Clarification on the coding of RANAP cause value	3.13.0	3.14.0	N4	GTP enhancement
29.060	327	1	Rel-4	A	NP-020474	N4-021068	Approved	Clarification on the coding of RANAP cause value	4.4.0	4.5.0	N4	GTP enhancement
29.060	327	1	Rel-4	A	NP-020443	N4-021068	revised	Clarification on the coding of RANAP cause value	4.4.0	4.5.0	N4	GTP enhancement
29.060	328	1	Rel-5	A	NP-020474	N4-021069	Approved	Clarification on the coding of RANAP cause value	5.2.0	5.3.0	N4	GTP enhancement
29.060	328	1	Rel-5	A	NP-020443	N4-021069	revised	Clarification on the coding of RANAP cause value	5.2.0	5.3.0	N4	GTP enhancement
29.060	329	1	Rel-5	F	NP-020454	N4-021110	approved	Addition of PCO IE to Update PDP context procedures	5.2.0	5.3.0	N4	TEI5
29.060	330	1	R99	F	NP-020443	N4-021061	revised	Setting PDP ID after inter-SGSN RAU using GTPv0	3.13.0	3.14.0	N4	GPRS
29.060	330	1	R99	F	NP-020474	N4-021061	Approved	Setting PDP ID after inter-SGSN RAU using GTPv0	3.13.0	3.14.0	N4	GPRS
29.060	331	1	Rel-4	A	NP-020474	N4-021062	Approved	Setting PDP ID after inter-SGSN RAU using GTPv0	4.4.0	4.5.0	N4	GPRS
29.060	331	1	Rel-4	A	NP-020443	N4-021062	revised	Setting PDP ID after inter-SGSN RAU using GTPv0	4.4.0	4.5.0	N4	GPRS
29.060	332	1	Rel-5	A	NP-020443	N4-021063	revised	Setting PDP ID after inter-SGSN RAU using GTPv0	5.2.0	5.3.0	N4	GPRS
29.060	332	1	Rel-5	A	NP-020474	N4-021063	Approved	Setting PDP ID after inter-SGSN RAU using GTPv0	5.2.0	5.3.0	N4	GPRS
29.060	334		R99	F	NP-020474	N4-020921	Approved	Removing inconsistency in definition of PDP Address length	3.13.0	3.14.0	N4	GPRS
29.060	334		R99	F	NP-020443	N4-020921	revised	Removing inconsistency in definition of PDP Address length	3.13.0	3.14.0	N4	GPRS
29.060	335		Rel-4	A	NP-020474	N4-020922	Approved	Removing inconsistency in definition of PDP Address length	4.4.0	4.5.0	N4	GPRS

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.060	335		Rel-4	A	NP-020443	N4-020922	revised	Removing inconsistency in definition of PDP Address length	4.4.0	4.5.0	N4	GPRS
29.060	336		Rel-5	A	NP-020474	N4-020923	Approved	Removing inconsistency in definition of PDP Address length	5.2.0	5.3.0	N4	GPRS
29.060	336		Rel-5	A	NP-020443	N4-020923	revised	Removing inconsistency in definition of PDP Address length	5.2.0	5.3.0	N4	GPRS
29.060	337		R99	F	NP-020474	N4-020924	Approved	16 bit PDCP sequence numbers in RAB Context	3.13.0	3.14.0	N4	GPRS
29.060	337		R99	F	NP-020443	N4-020924	revised	16 bit PDCP sequence numbers in RAB Context	3.13.0	3.14.0	N4	GPRS
29.060	338		Rel-4	A	NP-020443	N4-020925	revised	16 bit PDCP sequence numbers in RAB Context	4.4.0	4.5.0	N4	GPRS
29.060	338		Rel-4	A	NP-020474	N4-020925	Approved	16 bit PDCP sequence numbers in RAB Context	4.4.0	4.5.0	N4	GPRS
29.060	339		Rel-5	A	NP-020443	N4-020926	revised	16 bit PDCP sequence numbers in RAB Context	5.2.0	5.3.0	N4	GPRS
29.060	339		Rel-5	A	NP-020474	N4-020926	Approved	16 bit PDCP sequence numbers in RAB Context	5.2.0	5.3.0	N4	GPRS
29.060	340	1	R99	F	NP-020443	N4-021016	revised	Forward Relocation Response without 'RAB Setup Information' IE	3.13.0	3.14.0	N4	GPRS
29.060	340	1	R99	F	NP-020474	N4-021016	Approved	Forward Relocation Response without 'RAB Setup Information' IE	3.13.0	3.14.0	N4	GPRS
29.060	341	1	Rel-4	A	NP-020443	N4-021017	revised	Forward Relocation Response without 'RAB Setup Information' IE	4.4.0	4.5.0	N4	GPRS
29.060	342	1	Rel-5	A	NP-020474	N4-021018	Approved	Forward Relocation Response without 'RAB Setup Information' IE	5.2.0	5.3.0	N4	GPRS
29.060	342	1	Rel-5	A	NP-020443	N4-021018	revised	Forward Relocation Response without 'RAB Setup Information' IE	5.2.0	5.3.0	N4	GPRS
29.060	345		R99	F	NP-020443	N4-020968	revised	No equivalent Cause Code in GTP to PDP context without TFT already	3.13.0	3.14.0	N4	GTP enhancement
29.060	345		R99	F	NP-020474	N4-020968	Approved	No equivalent Cause Code in GTP to PDP context without TFT already	3.13.0	3.14.0	N4	GTP enhancement
29.060	346		Rel-4	A	NP-020474	N4-020969	Approved	No equivalent Cause Code in GTP to PDP context without TFT already	4.4.0	4.5.0	N4	GTP enhancement
29.060	346		Rel-4	A	NP-020443	N4-020969	revised	No equivalent Cause Code in GTP to PDP context without TFT already	4.4.0	4.5.0	N4	GTP enhancement
29.060	347		Rel-5	A	NP-020443	N4-020970	revised	No equivalent Cause Code in GTP to PDP context without TFT already	5.2.0	5.3.0	N4	GTP enhancement
29.060	347		Rel-5	A	NP-020474	N4-020970	Approved	No equivalent Cause Code in GTP to PDP context without TFT already	5.2.0	5.3.0	N4	GTP enhancement
29.060	349		Rel-4	F	NP-020474	N4-021010	Approved	Incorrect Refs.	4.4.0	4.5.0	N4	GTP enhancement
29.060	349		Rel-4	F	NP-020443	N4-021010	revised	Incorrect Refs.	4.4.0	4.5.0	N4	GTP enhancement
29.061	057	8	Rel-5	F	NP-020417	N3-020716	approved	Actions within the GGSN for IMS parameters sent in PDP context	5.2.0		N3	TEI
29.061	061	2	Rel-5	F	NP-020408	N3-020688	approved	Configuration of Domain Name System (DNS) server IPv6 addresses	5.2.0		N3	TEI
29.078	254	1	R99	F	NP-020340	N2-020748	approved	Removal of ReleaseCall from Assisting gsmSSF	3.12.0	3.13.0	N2	CAMEL3
29.078	255	1	Rel-4	A	NP-020340	N2-020749	approved	Removal of ReleaseCall from Assisting gsmSSF	4.5.0	4.6.0	N2	CAMEL3
29.078	256	1	Rel-5	A	NP-020340	N2-020750	approved	Removal of ReleaseCall from Assisting gsmSSF	5.0.0	5.1.0	N2	CAMEL3
29.078	257	1	Rel-5	F	NP-020342	N2-020782	approved	TC-U-Abort before the TC dialogue is established	5.0.0	5.1.0	N2	CAMEL4
29.078	258	2	Rel-5	C	NP-020347	N2-020777	approved	Handling of partial implementations of CAMEL phase 4	5.0.0	5.1.0	N2	CAMEL4
29.078	259		Rel-5	C	NP-020345	N2-020665	approved	Removal of ChargingNotification feature	5.0.0	5.1.0	N2	CAMEL4
29.078	260	1	Rel-5	B	NP-020346	N2-020784	rejected	Playing of Warning Tones	5.0.0	5.1.0	N2	CAMEL4
29.078	261		Rel-5	F	NP-020342	N2-020668	approved	ASN.1 syntax basic corrections	5.0.0	5.1.0	N2	CAMEL4
29.078	262	1	R99	F	NP-020340	N2-020745	approved	Correction of 29.078 CANCEL -gprs	3.12.0	3.13.0	N2	CAMEL3
29.078	263	1	Rel-4	A	NP-020340	N2-020746	approved	Correction of 29.078 CANCEL -gprs	4.5.0	4.6.0	N2	CAMEL3
29.078	264		Rel-5	D	NP-020342	N2-020678	approved	Editorial correction of 29.078 CANCEL -gprs	5.0.0	5.1.0	N2	CAMEL4
29.078	265		Rel-5	F	NP-020343	N2-020682	approved	Change "Initial Call Segment" to "CSID1"	5.0.0	5.1.0	N2	CAMEL4
29.078	266		Rel-5	D	NP-020343	N2-020692	approved	Introduction of CPH Definitions	5.0.0	5.1.0	N2	CAMEL4
29.078	267	1	Rel-5	F	NP-020476	N2-020797	approved	Move Leg and Split Leg Error - Task Refused	5.0.0	5.1.0	N2	CAMEL4
29.078	267	1	Rel-5	F	NP-020344	N2-020797	reissued	Move Leg and Split Leg Error - Task Refused	5.0.0	5.1.0	N2	CAMEL4
29.078	270	1	Rel-5	F	NP-020342	N2-020741	approved	ERB when VT call is reported in DP T_Busy due to Call Deflection	5.0.0	5.1.0	N2	CAMEL4
29.078	273		Rel-5	F	NP-020476	N2-020687	approved	Removal of "Note that" in descriptions of CPH operations	5.0.0	5.1.0	N2	CAMEL4

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.198-01	010	-	Rel-5	F	NP-020427	N5-020597	approved	Addition to ObjectRef description in WSDL Mapping Rules	5.0.0		N5	OSA2
29.198-01	011	-	Rel-5	F	NP-020427	N5-020598	approved	Addition of sequence tag to Choice types	5.0.0		N5	OSA2
29.198-01	012	-	Rel-5	F	NP-020427	N5-020599	approved	Replace all occurrences of the xsd:anyURI type to xsd:string	5.0.0		N5	OSA2
29.198-01	013	-	Rel-5	F	NP-020427	N5-020600	approved	Correction to Namespace mapping in WSDL Mapping Rules	5.0.0		N5	OSA2
29.198-01	014	-	Rel-5	F	NP-020427	N5-020601	approved	Correction to xmlns:wscdl Namespace	5.0.0		N5	OSA2
29.198-01	015	-	Rel-5	F	NP-020427	N5-020602	approved	Prepend class name to <message> name.	5.0.0		N5	OSA2
29.198-01	016	-	Rel-5	F	NP-020427	N5-020603	approved	Correction to void return types in WSDL Mapping Rules	5.0.0		N5	OSA2
29.198-01	017	-	Rel-5	F	NP-020427	N5-020738	approved	Add missing CORBA realization rules in Part 1	5.0.0		N5	OSA2
29.198-01	018	-	Rel-5	F	NP-020427	N5-020740	approved	Add general introduction to the OSA APIs in Part 1	5.0.0		N5	OSA2
29.198-01	019	-	Rel-5	F	NP-020427	N5-020758	rejected	Add references to ITU-T/ANSI for encoding of Carrier selection	5.0.0		N5	OSA2
29.198-01	020	-	Rel-5	D	NP-020395	N5-020767	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-02	022	-	Rel-5	D	NP-020395	N5-020768	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-03	045	-	Rel-4	F	NP-020423	N5-020711	approved	Correction on use of NULL in Framework API	4.5.0		N5	OSA1
29.198-03	046	-	Rel-5	F	NP-020428	N5-020755	approved	Correction to description of TpServicePropertyTypeName	5.0.0		N5	OSA2
29.198-03	047	-	Rel-5	F	NP-020428	N5-020606	approved	Remove undefined exception in registerService	5.0.0		N5	OSA2
29.198-03	048	-	Rel-5	F	NP-020428	N5-020691	approved	Remove ServiceIDs from IpFwFaultManager.genFaultStatsRecordReq()	5.0.0		N5	OSA2
29.198-03	049	-	Rel-5	F	NP-020428	N5-020692	approved	Correct appUnavailableInd and related methods	5.0.0		N5	OSA2
29.198-03	050	-	Rel-5	F	NP-020428	N5-020693	approved	Remove unusable exception from IpFaultManager.appActivityTestRes()	5.0.0		N5	OSA2
29.198-03	051	-	Rel-5	F	NP-020428	N5-020695	approved	Clarify the sequence of events in signing the service agreement	5.0.0		N5	OSA2
29.198-03	052	-	Rel-5	F	NP-020428	N5-020704	approved	Correct use of electronic signatures	5.0.0		N5	OSA2
29.198-03	053	-	Rel-5	F	NP-020428	N5-020705	approved	Addition of Sequence Diagrams for terminateAccess	5.0.0		N5	OSA2
29.198-03	054	-	Rel-5	F	NP-020428	N5-020710	approved	Add indication what part of service agreement must be signed	5.0.0		N5	OSA2
29.198-03	055	-	Rel-5	F	NP-020428	N5-020716	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-03	056	-	Rel-5	F	NP-020428	N5-020741	approved	Introduce types and modes for generic properties	5.0.0		N5	OSA2
29.198-03	057	-	Rel-5	A	NP-020428	N5-020751	approved	Correction on use of NULL in Framework API	5.0.0		N5	OSA2
29.198-03	058	-	Rel-5	D	NP-020395	N5-020769	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-03	058	-	Rel-5	F	NP-020428	N5-020760	approved	Add Negotiation of Authentication Mechanism for OSA level	5.0.0		N5	OSA2
29.198-04	057	-	Rel-4	F	NP-020424	N5-020762	approved	Correction on use of NULL in Call Control API	4.4.0		N5	OSA1
29.198-	001	-	Rel-5	F	NP-020429	N5-020717	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-	002	-	Rel-5	D	NP-020395	N5-020770	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-	001	-	Rel-5	A	NP-020430	N5-020765	approved	Correction on use of NULL in Call Control API	5.0.0		N5	OSA2
29.198-	002	-	Rel-5	D	NP-020395	N5-020771	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-	001	-	Rel-5	F	NP-020431	N5-020605	approved	Correction of error in Call Forward on Busy sequence diagram	5.0.0		N5	OSA2
29.198-	002	-	Rel-5	F	NP-020431	N5-020754	approved	Correct inconsistencies in IpCallLeg state transition diagrams	5.0.0		N5	OSA2
29.198-	003	-	Rel-5	F	NP-020431	N5-020756	approved	Clarification of the overlapping criteria definition and eventType mapping	5.0.0		N5	OSA2
29.198-	004	-	Rel-5	F	NP-020431	N5-020759	approved	Add support for Carrier selection	5.0.0		N5	OSA2
29.198-	005	-	Rel-5	A	NP-020431	N5-020766	approved	Correction on use of NULL in Call Control API	5.0.0		N5	OSA2
29.198-	006	-	Rel-5	D	NP-020395	N5-020772	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-	001	-	Rel-5	D	NP-020395	N5-020773	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-05	016	-	Rel-4	F	NP-020425	N5-020616	approved	Correction on use of NULL in User Interaction API	4.4.0		N5	OSA1
29.198-05	017	-	Rel-4	F	NP-020425	N5-020619	approved	Correction to TpUIInfo data type to support binary data for SMS services	4.4.0		N5	OSA1

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.198-05	018	-	Rel-5	F	NP-020432	N5-020718	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-05	019	-	Rel-5	A	NP-020432	N5-020748	approved	Correction on use of NULL in User Interaction API	5.0.0		N5	OSA2
29.198-05	020	-	Rel-5	A	NP-020432	N5-020750	approved	Correction to TpUIInfo data type to support binary data for SMS services	5.0.0		N5	OSA2
29.198-05	021	-	Rel-5	D	NP-020395	N5-020774	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-06	014	-	Rel-5	F	NP-020433	N5-020627	approved	Remove all parameter error and network error sequence diagrams	5.0.0		N5	OSA2
29.198-06	015	-	Rel-5	F	NP-020433	N5-020628	approved	Removal of unnecessary exception from	5.0.0		N5	OSA2
29.198-06	016	-	Rel-5	F	NP-020433	N5-020629	approved	Remove unusable exceptions from	5.0.0		N5	OSA2
29.198-06	017	-	Rel-5	F	NP-020433	N5-020719	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-06	018	-	Rel-5	D	NP-020395	N5-020775	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-07	007	-	Rel-5	F	NP-020434	N5-020720	approved	Add text to clarify requirements on support of methods	5.1.0		N5	OSA2
29.198-07	008	-	Rel-5	D	NP-020395	N5-020776	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.1.0		N5	OSA2
29.198-08	009	-	Rel-4	F	NP-020426	N5-020713	approved	Introduce new method getNotifications to correct the result type of	4.4.0		N5	OSA1
29.198-08	010	-	Rel-4	F	NP-020426	N5-020761	approved	Correction on use of NULL in Data Session Control API	4.4.0		N5	OSA1
29.198-08	011	-	Rel-5	F	NP-020435	N5-020633	approved	Remove duplicate exception from	5.0.0		N5	OSA2
29.198-08	012	-	Rel-5	F	NP-020435	N5-020635	approved	Remove P_SERVICE_INFORMATION_MISSING and	5.0.0		N5	OSA2
29.198-08	013	-	Rel-5	F	NP-020435	N5-020714	approved	Introduce new method getNotifications to correct the result type of	5.0.0		N5	OSA2
29.198-08	014	-	Rel-5	F	NP-020435	N5-020715	approved	Add P_INVALID_INTERFACE_TYPE exception to	5.0.0		N5	OSA2
29.198-08	015	-	Rel-5	F	NP-020435	N5-020721	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-08	016	-	Rel-5	A	NP-020435	N5-020764	approved	Correction on use of NULL in Data Session Control API	5.0.0		N5	OSA2
29.198-08	017	-	Rel-5	D	NP-020395	N5-020777	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-11	011	-	Rel-5	F	NP-020436	N5-020702	approved	Correction of IpAccountManager STD to permit multiple notifications	5.0.0		N5	OSA2
29.198-11	012	-	Rel-5	F	NP-020436	N5-020724	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-11	013	-	Rel-5	F	NP-020436	N5-020757	approved	Add missing callback interface for notifications in Account Management	5.0.0		N5	OSA2
29.198-11	014	-	Rel-5	D	NP-020395	N5-020778	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-12	018	-	Rel-5	F	NP-020437	N5-020725	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-12	019	-	Rel-5	D	NP-020395	N5-020779	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-13	001	-	Rel-5	F	NP-020439	N5-020726	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-13	002	-	Rel-5	D	NP-020395	N5-020780	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.198-14	001	-	Rel-5	F	NP-020440	N5-020727	approved	Add text to clarify requirements on support of methods	5.0.0		N5	OSA2
29.198-14	002	-	Rel-5	F	NP-020440	N5-020742	approved	Remove declaration of unused datatype TpPAMTime	5.0.0		N5	OSA2
29.198-14	003	-	Rel-5	D	NP-020395	N5-020781	approved	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA	5.0.0		N5	OSA2
29.202	002	1	Rel-4	F	NP-020445	N4-021054	approved	To add reference to new IETF RFC on SCTP Checksum	4.1.1	4.2.0	N4	TEI4
29.202	003	1	Rel-5	A	NP-020445	N4-021055	approved	To add reference to new IETF RFC on SCTP Checksum	5.0.0	5.1.0	N4	TEI4
29.207	005	1	Rel-5	F	NP-020411	N3-020677	approved	Clean-up of the PIB	5.0.0		N3	E2EQoS
29.207	006	1	Rel-5	F	NP-020409	N3-020673	approved	Authorized QoS vs. Guaranteed and maximum bit rates	5.0.0		N3	E2EQoS
29.207	007	2	Rel-5	F	NP-020411	N3-020715	approved	Editorial improvements in the specification	5.0.0		N3	E2EQoS
29.207	010	1	Rel-5	F	NP-020411	N3-020696	approved	SBLP Gate Decision	5.0.0		N3	E2EQoS
29.207	011	1	Rel-5	F	NP-020413	N3-020725	approved	Remove incomplete DS function	5.0.0		N3	E2EQoS
29.207	012	1	Rel-5	F	NP-020409	N3-020676	approved	Align TS 29.207 with TS 23.207 changes according to contribution S2-	5.0.0		N3	E2EQoS
29.207	014	1	Rel-5	F	NP-020411	N3-020702	approved	User Plane Operation	5.0.0		N3	E2EQoS
29.207	016	4	Rel-5	F	NP-020410	N3-020729	approved	Support for forking in 29.207	5.0.0		N3	E2EQoS

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.207	017	2	Rel-5	F	NP-020411	N3-020727	approved	Message Descriptions	5.0.0		N3	E2EQoS
29.207	018	1	Rel-5	F	NP-020411	N3-020690	approved	Derivation of flow identifiers from SDP	5.0.0		N3	E2EQoS
29.207	019	-	Rel-5	F	NP-020411	N3-020622	approved	Revoke Authorization Procedure	5.0.0		N3	E2EQoS
29.207	020	1	Rel-5	F	NP-020411	N3-020679	approved	Go related error codes to UE	5.0.0		N3	E2EQoS
29.207	021	-	Rel-5	F	NP-020409	N3-020607	approved	Removal of Annex A	5.0.0		N3	E2EQoS
29.207	022	2	Rel-5	F	NP-020414	N3-020731	approved	Source Address filtering over the Go interface	5.0.0		N3	E2EQoS
29.207	025	1	Rel-5	F	NP-020411	N3-020686	approved	Initialisation and maintenance / Security considerations	5.0.0		N3	E2EQoS
29.207	030	-	Rel-5	F	NP-020411	N3-020726	approved	Remove incomplete RSVP function	5.0.0		N3	E2EQoS
29.207	032	-	Rel-5	F	NP-020411	N3-020708	approved	R-Type and M-Type for Authorization_Failure event	5.0.0		N3	E2EQoS
29.207	033	2	Rel-5	F	NP-020410	N3-020742	approved	Session modification initiated decision	5.0.0		N3	E2EQoS
29.208	001	2	Rel-5	F	NP-020412	N3-020717	approved	Service Class Mapping in the PCF	5.0.0		N3	E2EQoS
29.208	002	3	Rel-5	F	NP-020412	N3-020744	approved	Data Rate Mapping in the PCF	5.0.0		N3	E2EQoS
29.208	003	-	Rel-5	D	NP-020412	N3-020633	approved	Correction of Reference [6]	5.0.0		N3	E2EQoS
29.208	004	2	Rel-5	F	NP-020412	N3-020743	approved	QoS Parameter Mapping between IMS and GPRS	5.0.0		N3	E2EQoS
29.208	006	1	Rel-5	F	NP-020409	N3-020674	approved	Authorized QoS vs. Guaranteed and maximum bit rates	5.0.0		N3	E2EQoS
29.208	007	1	Rel-5	F	NP-020410	N3-020720	approved	Support for forking in 29.208	5.0.0		N3	E2EQoS
29.208	008	1	Rel-5	F	NP-020412	N3-020711	approved	Removal of incomplete function	5.0.0		N3	E2EQoS
29.228	001	2	Rel-5	F	NP-020449	N4-021022	approved	Clarification of implicit registration	5.0.0	5.1.0	N4	IMS-CCR
29.228	002	1	Rel-5	F	NP-020449	N4-021023	approved	Clarification of user registration status query	5.0.0	5.1.0	N4	IMS-CCR
29.228	003	1	Rel-5	F	NP-020449	N4-021024	approved	Clarification of HSS initiated update of user profile	5.0.0	5.1.0	N4	IMS-CCR
29.228	004	2	Rel-5	F	NP-020449	N4-021025	approved	Conditionality of the S-CSCF name in MAR command	5.0.0	5.1.0	N4	IMS-CCR
29.228	005	1	Rel-5	F	NP-020449	N4-021026	approved	Conditionality of the SIP-Auth-Data-Item in MAA command	5.0.0	5.1.0	N4	IMS-CCR
29.228	006	2	Rel-5	F	NP-020449	N4-021096	rejected	Definition of the Subscribed media parameter	5.0.0	5.1.0	N4	IMS-CCR
29.229	001		Rel-5	F	NP-020449	N4-020853	approved	to add a reference to the new IETF RFC on SCTP checksum	5.0.0	5.1.0	N4	IMS-CCR
29.229	003		Rel-5	F	NP-020449	N4-020896	approved	Wrong format of Charging Function Addresses	5.0.0	5.1.0	N4	IMS-CCR
29.229	005		Rel-5	F	NP-020449	N4-021027	approved	Mistake in the definition of the command MAA	5.0.0	5.1.0	N4	IMS-CCR
29.232	037		Rel-5	F	NP-020459	N4-020885	approved	Misalignment between TS 23.226 and TS 29.232 for Global Text	5.2.0	5.3.0	N4	GTT
29.232	038		Rel-5	F	NP-020459	N4-020887	approved	Alignment between prepare bearer and reserve bearer in TS 29.232 for	5.2.0	5.3.0	N4	GTT
29.232	039		Rel-5	F	NP-020459	N4-020886	approved	Alignment of text in TS 29.232 for Global Text Telephony	5.2.0	5.3.0	N4	GTT
29.232	043	1	Rel-4	F	NP-020463	N4-021059	approved	Missing Properties For CSD Calls	4.5.0	4.6.0	N4	CSSPLIT
29.232	044	1	Rel-5	A	NP-020463	N4-021060	approved	Missing Properties For CSD Calls	5.2.0	5.3.0	N4	CSSPLIT
29.328	001	1	Rel-5	F	NP-020450	N4-021033	approved	Correction of Section 7 Numbering and internal referencing	5.0.0	5.1.0	N4	IMS-CCR
29.328	002	1	Rel-5	F	NP-020450	N4-021034	approved	Cancellation of subscriptions to notifications	5.0.0	5.1.0	N4	IMS-CCR
29.328	003	1	Rel-5	F	NP-020450	N4-021036	approved	Definition of location information for Sh interface	5.0.0	5.1.0	N4	IMS-CCR
29.328	004	1	Rel-5	F	NP-020450	N4-021037	approved	Definition of user state for Sh interface	5.0.0	5.1.0	N4	IMS-CCR
29.328	005		Rel-5	F	NP-020450	N4-020905	approved	Missing references to XML schema for Sh interface	5.0.0	5.1.0	N4	IMS-CCR
29.328	006		Rel-5	F	NP-020450	N4-020906	approved	Extensibility of XML schema for Sh interface	5.0.0	5.1.0	N4	IMS-CCR
29.329	002	1	Rel-5	F	NP-020450	N4-021035	approved	Cancellation of subscriptions to notifications	5.0.0	5.1.0	N4	IMS-CCR
29.329	003	1	Rel-5	F	NP-020450	N4-021038	approved	Addition of Requested-Domain indication to User-Data-Request	5.0.0	5.1.0	N4	IMS-CCR
43.010	006	1	Rel-5	A	NP-020405	N3-020638	approved	Correction of Rate Adaptation Functions and removal of S Reference	5.0.0		N3	CS Data Bearers
43.010	008	-	Rel-4	F	NP-020405	N3-020662	approved	Correction of Rate Adaptation Functions and removal of S Reference	4.0.0		N3	CS Data Bearers

Spec	CR	R	Ph.	Cat	NP doc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
43.068	007		Rel-5	F	NP-020383	N1-021687	approved	ASCI VGCS call termination by dispatchers using DTMF	5.0.1	5.1.0	N1	TEI5
43.069	006		Rel-5	F	NP-020383	N1-021688	approved	ASCI VBS call termination by dispatchers using DTMF	5.0.1	5.1.0	N1	TEI5
44.021	002	3	Rel-5	A	NP-020405	N3-020680	approved	Correction of Rate Adaptation Functions and removal of S Reference	5.0.0		N3	CS Data Bearers
44.021	003	-	Rel-5	A	NP-020405	N3-020567	approved	Correction of protocol stacks in annex A	5.0.0		N3	CS Data Bearers
44.021	005	-	Rel-4	F	NP-020405	N3-020681	approved	Correction of Rate Adaptation Functions and removal of S Reference	4.0.0		N3	CS Data Bearers
44.021	006	-	Rel-4	F	NP-020405	N3-020683	approved	Correction of protocol stacks in annex A	4.0.0		N3	CS Data Bearers
48.020	002	-	Rel-5	A	NP-020405	N3-020566	approved	Correction of Rate Adaptation Functions and removal of S Reference	5.0.0		N3	CS Data Bearers
48.020	004	-	Rel-4	F	NP-020405	N3-020682	approved	Correction of Rate Adaptation Functions and removal of S Reference	4.0.0		N3	CS Data Bearers

Note:- Updated from master Spec_status dbase on 11th Sept 2002.

358 CRs approved at TSG#17.

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

ANNEX B Tdoc List with Status for CN#17

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020325	2	AGENDA	Draft Agenda for CN#17 (Biarritz)	MCC	APPROVED
NP-020326	2	DAD	Allocation of documents to agenda items at start of meeting	CN V.chair	NOTED
NP-020327	2	DAD	Allocation of documents to agenda items at close of day 1	CN V.chair	NOTED
NP-020328	2	DAD	Allocation of documents to agenda items at close of day 2	CN V.chair	NOTED
NP-020329	2	DAD	Allocation of documents to agenda items at close of day 3	CN V.chair	NOTED
NP-020330	4.1	REPORT	Draft Meeting report from CN#16 (Marco)	MCC	REVISED TO 0479
NP-020331	12	WORK PLAN	3GPP Work Plan	MCC	NOTED
NP-020332	12	WORK PLAN	3GPP Work Plan [Slide Presentation]	MCC	NOTED
NP-020333	6.4.1	REPORT	Status Report for TSG CN WG4	CN4 Chair	NOTED
NP-020334	4.3	REPORT	IETF Report	CN chair	NOTED
NP-020335	8.1	CR	Registration with integrity protection	Various	REVISED TO 0487
NP-020336	8.1	CR	Remaining REGISTER and SUBSCRIBE flow updates	Various	APPROVED
NP-020337	6.2.1	REPORT	Status Report for TSG CN WG2	CN2 Chair	NOTED
NP-020338	6.2.1	REPORT	CN2#25 Draft Meeting Report	MCC	NOTED
NP-020339	6.2.1	LS PACK1	LSs sent from CN2 since TSG CN#16 Meeting	CN2	NOTED
NP-020340	7.1	CR PACK1	CRs to R99 WI CAMEL3	CN2	APPROVED
NP-020341	7.1	CR PACK2	CRs to Rel4 WI CAMEL3	CN2	APPROVED
NP-020342	8.3	CR PACK3	CRs to Rel-5 WI CAMEL4	CN2	APPROVED
NP-020343	8.3	CR PACK4	CRs to Rel-5 WI CAMEL4	CN2	APPROVED
NP-020344	8.3	CR PACK5	CRs to Rel-5 WI CAMEL4	CN2	REVISED TO 0476
NP-020345	8.3	CR PACK6	CRs to Rel-5 WI CAMEL4	CN2	APPROVED
NP-020346	8.3	CR PACK7	CRs to Rel-5 WI CAMEL4	CN2	REFERRED BACK TO CN2 FOR APPROVED
NP-020347	8.3	CR PACK8	CRs to Rel-5 WI CAMEL4	CN2	REFERRED BACK TO CN2 FOR APPROVED
NP-020348	8.1	TS	TS 23.278 v 2.1.0 (CAMEL Phase 4 - Stage 2 IM CN Interworking)	CN2	APPROVED
NP-020349	8.1	TS	TS 29.278 v 2.0.0 (CAMEL Phase 4 - Stage 3 IM CN Interworking)	CN2	APPROVED
NP-020350	8.5	DISC	GGSN DiffServ function interactions and descriptions.	Nortel Networks	WITHDRAWN before presentation
NP-020351	8.5	CR	DiffServ Function in 29.207	Nortel Networks	WITHDRAWN before presentation
NP-020352	8.3	WID	Update of CAMEL4 Work Item Description in Rel-5 for TSG CN	CN2 Chair	REVISED TO 0486

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020353	10.2	ToR	Update of CN2 Terms of Reference	CN2 Chair	APPROVED
NP-020354	5.1	LS IN	LS on use of IP as transport for the Inter-GMLC Interface [N4-020999]	CN4	NOTED
NP-020355	5.3	LS IN	LS on Network Integration Testing	TC SPAN	NOTED
NP-020356	5.2	LS IN	LS reply on "3GPP-specific Diameter applications" [S5-024244]	SA5	NOTED
NP-020357	5.2	LS IN	LS on Allowed AMR-WB Configurations [S4-020481]	SA4	NOTED- Referred to CN1, CN4
NP-020358	5.1	LS IN	LS on Shared Networks [N4-021098]	CN4	NOTED
NP-020359	5.1	LS IN	LS on Request for DNS server address by SM procedure [N1-021834]	CN1	NOTED
NP-020360	5.1	LS IN	LS on Media grouping [N1-021782]	CN1	NOTED
NP-020361	6.1.1	REPORT	Status Report for TSG CN WG1	CN1 Chair	NOTED
NP-020362	6.1.1	REPORT	CN1#25 Meeting Report	MCC	NOTED
NP-020363	6.1.1	LS PACK 1	All LSs sent from CN1 since TSG CN#16 Meeting	MCC	NOTED
NP-020364	6.1.1	LS PACK 2	All LSs sent from CN1 since TSG CN#16 Meeting	MCC	NOTED
NP-020365	7.6	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 23.014	CN1	APPROVED
NP-020366	7.7	CR PACK	CRs to R99 (with mirror CR) and Rel-5 on Work Item TRFO-OOBTC towards 23.009	CN1	PART APPROVED
NP-020367	7.11	CR PACK	CRs to R99 (with mirror CRs) on Work Item TEI towards 23.122	CN1	APPROVED
NP-020368	7.11	CR PACK	CRs to R99 (with mirror CRs) on Work Item TEI towards 24.008	CN1	APPROVED
NP-020369	7.12	CR PACK	CRs to R99 (with mirror CRs) on Work Item COMPACT towards 23.122 and 24.008	CN1	APPROVED
NP-020370	7.12	CR PACK	CRs to R97 (with mirror CRs) on Work Item GTT towards 04.08 and 24.008	CN1	APPROVED
NP-020371	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.008	CN1	APPROVED
NP-020372	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.008 and 24.229	CN1	APPROVED
NP-020373	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 23.218	CN1	APPROVED
NP-020374	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.228	CN1	APPROVED
NP-020375	8.1	CR PACK-1	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 1	CN1	PART APPROVED
NP-020376	8.1	CR PACK-2	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 2	CN1	APPROVED
NP-020377	8.1	CR PACK-3	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 3	CN1	PART APPROVED
NP-020378	8.1	CR PACK-4	CRs to Rel-5 on Work Item IMS-CCR towards 24.229,- pack 4	CN1	APPROVED
NP-020379	8.1	CR PACK	CR to Rel-5 on Work Item IMS-CCR towards 24.229,- CR153r1	CN1	REVISED to 0335
NP-020380	8.5	CR PACK	CR to Rel-5 on Work Item QoS towards 24.008	CN1	APPROVED
NP-020381	8.8	CR PACK	CR to Rel-5 on Work Item TEI5 towards 24.008 with SA2 CR linkage	CN1	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020382	8.8	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 24.008	CN1	PART APPROVED
NP-020383	8.8	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 23.009, 23.122, 24.007, 43.068 and 43.069	CN1	APPROVED
NP-020384	8.9	CR PACK	CRs to Rel-5 on Work Item 3GSplit towards 24.008	CN1	APPROVED
NP-020385	9.1	WID	IMS stage 3 enhancements	CN1	APPROVED
NP-020386	9.8	WID	Support of the Presence Service in Core Network Signalling Protocols	CN1	REVISED TO 0491
NP-020387	9.9	WID	Interoperability and Commonality between IP Multimedia Systems using different "IP-connectivity Networks"; stage 3	CN1	APPROVED
NP-020388	6.3.2	[LS IN]	Response on "Proposed solutions for the identification of source IP address information over the Go interface"	SA2 [CN3]	NOTED
NP-020389	5.2	LS IN	Re. LS on "Media grouping" [S2-022640]	SA2	NOTED
NP-020390	5.2	LS IN	Re. LS on "Subscribed Media Parameter" [S2-022634]	SA2	NOTED
NP-020391	5.2	LS IN	LS on the protocol development for the GMLC Lr-interface [S2-022615]	SA2	NOTED
NP-020392	5.2	LS IN	Reply: LS on Shared Networks [GP-022820]	GERAN2	NOTED
NP-020393	5.3	LS IN	Liaison Statement on Interoperability Issues and SIP in IMS	IETF	Referred to CN1,2,3,4, and 5
NP-020394		CR	MS behavior in case of change of network mode of operation	Siemens	APPROVED
NP-020395	8.2	CR	Rel-5 CRs 29.198-01 to -14 OSA APIs : Add text to clarify relationship between 3GPP and ETSI/Parlay OSA specifications	CN5	APPROVED
NP-020396	7.11	CR	Addition of an error mapping table for MAP Update Location operation	Orange, Ericsson, Lucent	APPROVED
NP-020397	7.11	CR	Addition of an error mapping table for MAP Update Location operation	Orange, Ericsson, Lucent	APPROVED
NP-020398	8.8	CR	Addition of an error mapping table for MAP Update Location operation	Orange, Ericsson, Lucent	APPROVED
NP-020399	8.8	CR	Introduction of GERAN classmark	Siemens	APPROVED
NP-020400	6.3.1	REPORT	Status Report for TSG CN WG3	CN3 Chair	NOTED
NP-020401	6.3.1	REPORT	CN3#24 Draft Meeting Report	MCC	NOTED
NP-020402	6.3.1	LS PACK	LSs sent from CN3 since TSG CN#16 Meeting	CN3	NOTED
NP-020403	7.3	CR PACK	CRs to R99 WI GPRS	CN3	APPROVED
NP-020404	7.12	CR PACK	CRs to R99 WI CS Data	CN3	APPROVED
NP-020405	7.12	CR PACK	CRs to Rel-4 WI CS Data	CN3	APPROVED
NP-020406	7.8	CR PACK	CRs to Rel-4 WI BICSCN	CN3	APPROVED
NP-020407	8.9	CR PACK	CRs to Rel-5 WI CS Data	CN3	APPROVED
NP-020408	8.8	CR PACK	CRs to Rel-5 WI GPRS (pack2)	CN3	APPROVED
NP-020409	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 1)	CN3	APPROVED
NP-020410	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 2: Forking)	CN3	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020411	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 3: 29.207)	CN3	APPROVED
NP-020412	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 4: 29.208)	CN3	APPROVED
NP-020413	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 5: DiffServ)	CN3	APPROVED
NP-020414	8.5	CR PACK	CRs to Rel-5 WI E2EQOS (part 6)	CN3	APPROVED
NP-020415	6.3.2	LIST	Open issues 29.207	CN3	NOTED
NP-020416	6.3.2	LIST	Open issues 29.208	CN3	NOTED
NP-020417	8.9	CR PACK	CRs to Rel-5 WI GPRS (pack2)	CN3	APPROVED
NP-020418	8.5	DISCUSSION DOC	CN3 decision on DiffServ options	Ericsson	WITHDRAWN
NP-020419	8.8	CR	Restructuring the IMEI to combine the TAC and FAC in Annex B	Vodafone	APPROVED
NP-020420	6.5.1	REPORT	Chairman's report from CN5 (slide presentation)	CN5 Chair	NOTED
NP-020421	6.5.1	LS OUT	LSs outgoing from CN5 between CN#16 and CN#17	CN5	NOTED
NP-020422	6.5.1	REPORT	Draft Report of CN5#19, Montreal, CANADA, 8-12 July 2002 (N5-020557)	CN5 Chair	NOTED
NP-020423	7.10	CR	Rel-4 CRs 29.198-03	CN5	APPROVED
NP-020424	7.10	CR	Rel-4 CRs 29.198-04	CN5	APPROVED
NP-020425	7.10	CR	Rel-4 CRs 29.198-05	CN5	APPROVED
NP-020426	7.10	CR	Rel-4 CRs 29.198-08	CN5	APPROVED
NP-020427	8.2	CR	Rel-5 CRs 29.198-01	CN5	PART APPROVED
NP-020428	8.2	CR	Rel-5 CRs 29.198-03	CN5	APPROVED
NP-020429	8.2	CR	Rel-5 CRs 29.198-04-1	CN5	APPROVED
NP-020430	8.2	CR	Rel-5 CRs 29.198-04-2	CN5	APPROVED
NP-020431	8.2	CR	Rel-5 CRs 29.198-04-3	CN5	APPROVED
NP-020432	8.2	CR	Rel-5 CRs 29.198-05	CN5	APPROVED
NP-020433	8.2	CR	Rel-5 CRs 29.198-06	CN5	APPROVED
NP-020434	8.2	CR	Rel-5 CRs 29.198-07	CN5	APPROVED
NP-020435	8.2	CR	Rel-5 CRs 29.198-08	CN5	APPROVED
NP-020436	8.2	CR	Rel-5 CRs 29.198-11	CN5	APPROVED
NP-020437	8.2	CR	Rel-5 CRs 29.198-12	CN5	APPROVED
NP-020438	9.7	WID	Rel-6 Draft Work Item Description for OSA Stage 3 Rel-6	CN5	APPROVED
NP-020439	8.2	CR	Rel-5 CRs 29.198-13	CN5	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020440	8.2	CR	Rel-5 CRs 29.198-14	CN5	APPROVED
NP-020441	6.4.1	Info	CN4 meeting reports after CN#16	CN4	NOTED
NP-020442	6.4.1	Info	CN4 Output LSs after CN#16	CN4	NOTED
NP-020443	7.3	CR pack	GPRS Rel-4 & earlier	CN4	REVISED BEFORE PRESENTA
NP-020444	7.7	CR pack	TrFO/Codec control	CN4	APPROVED
NP-020445	7.11	CR pack	TEI_4	CN4	APPROVED
NP-020446	7.11	CR pack	TEI (R99)	CN4	APPROVED
NP-020447	7.11	CR pack	TEI (R99): CRs on Addition of an error mapping table for MAP Update Location operation	CN4	REVISED TO 0396, 0307, 0308
NP-020448	7.11	CR pack	TEI (R98)	CN4	APPROVED
NP-020449	8.1	CR pack	IMS (Cx/Dx)	CN4	APPROVED
NP-020450	8.1	CR pack	IMS (Sh)	CN4	APPROVED
NP-020451	8.1	CR pack	IMS (CAMEL control)	CN4	APPROVED
NP-020452	8.3	CR pack	CAMEL phase 4: general corrections	CN4	APPROVED
NP-020453	8.3	CR pack	CAMEL phase 4: partial implementation	CN4	APPROVED
NP-020454	8.8	CR pack	TEI_5	CN4	PART APPROVED
NP-020455	8.9	CR pack	Shared networks: CRs independent of transport method for SNA access information	CN4	APPROVED
NP-020456	8.9	CR pack	Shared networks: SNA access information transported at MAP level	CN4	REJECTED
NP-020457	8.9	CR pack	Shared networks: SNA access information transported at MAP level	CN4	APPROVED
NP-020458	8.8	CR pack	TEI5: GERAN lu mode	CN4	PART APPROVED
NP-020459	8.9	CR pack	Global Text Telephony	CN4	APPROVED
NP-020460	8.9	CR pack	LCS Rel-5	CN4	APPROVED
NP-020461	9.9	CR pack	TEI6	CN4	REVISED BEFORE PRESENTA
NP-020462	9.9	WID	Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface	CN4	REVISED TO 0494
NP-020463	7.8	CR Pack	Bearer Independent Architecture	CN4	APPROVED
NP-020464	11	[CR]	CR 010 to 21.101: "Correction to list of specs"	JMM, MCC	WITHDRAW N
NP-020465	11	[CR]	CR 008 to 21.102: "Correction to list of specs"	JMM, MCC	NOTED
NP-020466	11	[CR]	CR 001 to 21.103: "Correction to list of specs"	JMM, MCC	NOTED
NP-020467	11	[CR]	CR 008 to 01.01: "GSM Release 1999 specifications."	JMM, MCC	NOTED
NP-020468	11	[CR]	CR 005 to 41.102: "GSM Release 4 Specifications"	JMM, MCC	NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020469	11	[CR]	CR 001 to 41.103: "Correction to list of specs"	JMM, MCC	NOTED
NP-020470	11	LIST	Specs status list prior to TSGs#17	JMM, MCC	NOTED
NP-020471	11	LIST	List of specs / releases	JMM, MCC	NOTED
NP-020472	7.7	CR	Correction for Inter-MSC relocation procedure due to multiple codecs	Nokia, Ericsson, Siemens	REFERRED BACK TO CN1 and
NP-020473	7.3	DISCUSSION DOC	Discussion document on SMS over GPRS support in the network	Panasonic	NOTED
NP-020474	7.3	CR pack	GPRS Rel-4 & earlier	CN4	APPROVED
NP-020475	9.9	CR pack	TEI6	CN4	REVISED TO 0493
NP-020476	8.3	CR PACK5	CRs to Rel-5 WI CAMEL4	CN2	APPROVED
NP-020477	?	INFO	CAMEL/IMS Open Issues	Lucent Technologies	NOTED
NP-020478	8.8	CR	Available codecs list and selected codec indication	Nokia	WITHDRAWN
NP-020479	4.1	REPORT	Draft Meeting report from CN#16 (Marco)	MCC	APPROVED
NP-020480	5.2	LS OUT	Reply LS on Media grouping	CN [Dynamicsoft]	APPROVED
NP-020481	??	CR	CR to 24.229 Support of non-IMS forking	Lucent	REJECTED
NP-020482	5.3	LS OUT	LS out to IETF cc'd CN3, CN4. on interop issues	CN (CN Chair)	REVISED TO 0490
NP-020483	10.5	CALENDAR	2003 Meeting schedule	CN Chair	APPROVED
NP-020484	8.1	CR	Definition of the term IMS in 24.229	Various	APPROVED
NP-020485	8.1	CR	Explicit listing of need to route response messages	Various	APPROVED
NP-020486	8.3	WID	Update of CAMEL4 Work Item Description in Rel-5 for TSG CN	CN2	APPROVED
NP-020487	8.1	CR	Registration with integrity protection	Dynamicsoft	APPROVED
NP-020488	8.1	CR	Service profiles and implicitly registered public user identities	Dynamicsoft	APPROVED
NP-020489	8.1	CR	Adding MESSAGE to 24.229	Dynamicsoft	APPROVED
NP-020490	5.3	LS OUT	Proposed Response to IETF LS on Interoperability Issues and SIP in IMS	CN (CN Chair)	REVISED TO 0492
NP-020491	9.8	WID	Support of the Presence Service in Core Network Signalling Protocols	Lucent	APPROVED
NP-020492	5.3	LS OUT	Response to IETF LS on Interoperability Issues and SIP in IMS	CN (CN Chair)	APPROVED
NP-020493	9.9	CR pack	TEI6	CN4	APPROVED
NP-020494	9.9	WID	Media Gateway Control Function (MGCF) - IM Media Gateway (IMS-MGW) Mn Interface	CN4	APPROVED

ANNEX C. TSG CN meeting #17 Participants List

Title	Surname	Firstname	Role	Organization	Status	Partner
Mr.	Allen	Andrew		dynamicsoft Inc.	3GPPMEMBER	T1
Mr.	Andersen	Niels Peter Skov		MOTOROLA A/S	3GPPMEMBER	ETSI
Mr.	Barnes	Nigel		MOTOROLA Ltd	3GPPMEMBER	ETSI
Mr.	Berry	Nigel		Lucent	3GPPMEMBER	ETSI
Mr.	Boswarthick	David	SECRETARY	ETSI Secretariat	3GPPORG_REP	ETSI
Mr.	Briggs	Michael		BT Group Plc	3GPPMEMBER	ETSI
Mr.	Brook	Richard		SAMSUNG Electronics	3GPPMEMBER	ETSI
Dr.	Castro	Jonathan Prince		ORANGE PCS LTD	3GPPMEMBER	ETSI
Mr.	Chander	Sharat		AT&T Wireless Services, Inc.	3GPPMEMBER	T1
Mr.	Corkovic	Stephen		VIP-NET GSM d.o.o.	3GPPMEMBER	ETSI
Mr.	Dawkins	Spencer		Cyneta Networks	3GPPGUEST	OTHER
Mr.	Doig	Ian		MOTOROLA S.A.	3GPPMEMBER	ETSI
Mr.	Dubois	Régis		ORANGE FRANCE	3GPPMEMBER	ETSI
Mr.	Ehrlich	Ed		Nokia Telecommunications Inc.	3GPPMEMBER	T1
Mr.	Ellsberger	Jan		ERICSSON L.M.	3GPPMEMBER	ETSI
Mr.	Hayes	Stephen	Chairman	Ericsson Inc.	3GPPMEMBER	T1
Ms.	Hewson	Ruth		VODAFONE Group Plc	3GPPMEMBER	ETSI
Mr.	Hiebinger	Ludwig		SIEMENS AG	3GPPMEMBER	ETSI
Mr.	Hietalahti	Hannu		NOKIA Corporation	3GPPMEMBER	ETSI
Mr.	Holm	Thomas		TDC TELE DANMARK A/S	3GPPMEMBER	ETSI
Mr.	Holmström	Tomas		ERICSSON L.M.	3GPPMEMBER	ETSI
Mr.	Hori	Kazumasa		NTT DoCoMo Inc.	3GPPMEMBER	TTC
Mr.	Horisaki	Nobuhiro		TTC	3GPPORG_REP	TTC
Mr.	Hou	Zhipeng		HuaWei Technologies Co., Ltd	3GPPMEMBER	CWTS
Mr.	Howell	Andrew		MOTOROLA GmbH	3GPPMEMBER	ETSI
Mrs.	Hughes	Karen		ETSI Secretariat	3GPPORG_REP	ETSI
Ms.	Hwang	Woonhee		Nokia Japan Co, Ltd	3GPPMEMBER	ARIB
Miss	Hyewon	Baek		Samsung Electronics Co., Ltd	3GPPMEMBER	TTA
Mr.	Jones	Gary		VoiceStream Wireless Corp.	3GPPMEMBER	ETSI
Mr.	Jorgensen	Per Johan		ETSI Secretariat	3GPPORG_REP	ETSI
Mrs.	Juriscic	Andrijana		ETSI Secretariat	3GPPORG_REP	ETSI
Ms.	Kallio	Susanna		Nokia Korea	3GPPMEMBER	TTA
Mr.	Kanerva	Mikko		NOKIA Corporation	3GPPMEMBER	ETSI
Mr.	Klehn	Norbert		SIEMENS AG	3GPPMEMBER	ETSI
Mr.	Kusunose	Kenya		NTT DoCoMo Inc.	3GPPMEMBER	TTC
Mr.	Kymalainen	Kimmo		ETSI Secretariat	3GPPORG_REP	ETSI
Mr.	Li	Peng		QUALCOMM EUROPE S.A.R.L.	3GPPMEMBER	ETSI
Mr.	Lycksell	Edgar		TELIA AB	3GPPMEMBER	ETSI
Mr.	Mecrow	Steve		mmO2 plc	3GPPMEMBER	ETSI
Mr.	Minokuchi	Atsushi		NTT DoCoMo Inc.	3GPPMEMBER	TTC
Mr.	Montz	Mark		Hewlett-Packard	3GPPMEMBER	T1
Mr.	Nakamura	Hiroshi		NTT DoCoMo Inc.	3GPPMEMBER	TTC
Mr.	Noda	Akishige		Fujitsu Limited	3GPPMEMBER	TTC
Mr.	Park	Ian David Chalmers	ViceChairman	VODAFONE Group Plc	3GPPMEMBER	ETSI

Title	Surname	Firstname	Role	Organization	Status	Partner
Mr.	Rainer	Johannes		Telekom Austria AG	3GPPMEMBER	ETSI
Mr.	Ren	Huimin		ZTE Corporation	3GPPMEMBER	CWTS
Mr.	Richards	Derek John		Megisto Systems Inc.	3GPPMEMBER	ETSI
Mr.	Sampson	Nick		ORANGE PCS LTD	3GPPMEMBER	ETSI
Mr.	Schmitt	Peter		SIEMENS AG	3GPPMEMBER	ETSI
Mr.	Sharp	Iain		NORTEL NETWORKS (EUROPE)	3GPPMEMBER	ETSI
Mr.	SOORMALLY	Sajid		ALCATEL S.A.	3GPPMEMBER	ETSI
Miss	Sun	Yuanning		RITT	3GPPMEMBER	CWTS
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Mr.	Taya	Kunihiko	ViceChairman	NEC Corporation	3GPPMEMBER	TTC
Mr.	Toth	Stefan		ERICSSON L.M.	3GPPMEMBER	ETSI
Mr.	Unmehopa	Musa	ViceChairman	Lucent Technologies B.V.	3GPPMEMBER	ETSI
Miss	Wang	Jie		HuaWei Technologies Co., Ltd	3GPPMEMBER	CWTS
Mr.	wei	Iiang		RITT	3GPPMEMBER	CWTS
Mr.	Wild	Peter		Vodafone D2 GmbH	3GPPMEMBER	ETSI
Mr.	Yokota	Daisuke		Lucent	3GPPMEMBER	TTC
Mr.	Yoshino	Keiji		TTC	3GPPORG_REP	TTC
Miss	Zhang	Yifan		ICR	3GPPMEMBER	ETSI
Mr.	Zoicas	Adrian		ETSI Secretariat	3GPPORG_REP	ETSI

History

Document History	
up to 10 th Sept 2002	DRAFT v0.0.1, 002, 0033 send to TSG_CN Officials for comments
11 th September 2002	DRAFT v1.0.0 Presented to TSG-SA#17 (SP-020589)
10 th September 2002	DRAFT v1.0.0 dispatched to the TSG-CN mail exploder for comments. Comments to be addressed to: 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 A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report. E-mail comments back by 30th September 2002.
29 th Nov 2002	DRAFT v1.1.1 (with rev marks placed to FTP server)
4th Dec 2002	Final v3.0.0 approved at TSG#18 Meeting in New Orleans – Made version 3.0.0 and placed to server as the official meeting report.