

Third Generation Partnership Project

DRAFT MEETING REPORT v1.0.0

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 OSA 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 concrete arguments as to why the CR cannot be approved.

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#15, source MCC.

Status: NOTED.

NP-020442 CN4 Output LSs after CN#15, 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.

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.

↓ REVISÉD ↓

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.

↓ REVISÉD ↓

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.

Also 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 the rapporteur 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: Keith Drage [Lucent] also has some concerns with 2 CRs in this pack. However delegates felt that they were mainly editorial and can be handled by further CRs.

Certain CN1 delegates felt that the absence of a company delegate in a meeting should not be a reason for blocking in 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.

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 | N5-020603 | APPROVED |

| | | | | Rules | | |
|-----------|-----------|-----|---|--|-----------|----------|
| 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 text has been moved to 27.060, when it is already present in TS.24.229. 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.

Nokia and 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 3GSPplit 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 be 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 WIDs 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. One may be CRs to 29.998 and possibly a new TS.

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, *source CN4*.

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, *source CN4*.

Status: REVISED.

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 | | | | |
| <u>3GPPCN1-Rel-6 adhoc</u> | AH | 22 - 24 Oct 2002 | Munich | DE |
| <u>3GPPCN5#21</u> | 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 | | | | |
| <u>3GPPCN-#18</u> | 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 | | | | |
| <u>3GPPCN-#19</u> | 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 | | | | |
| <u>3GPPCN-#20</u> | 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> | FR |
| Sep 2003 | | | | |
| <u>3GPPCN-#21</u> | 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> | CN |
| Dec 2003 | | | | |
| <u>3GPPCN-#22</u> | OR | 10 - 12 Dec 2003 | TBD | US |
| Mar 2004 | | | | |
| <u>3GPPCN-#23</u> | OR | 10 - 12 Mar 2004 | CHINA | CN |
| Jun 2004 | | | | |
| <u>3GPPCN-#24</u> | OR | 2 - 4 Jun 2004 | TBD | |
| Sep 2004 | | | | |
| <u>3GPPCN-#25</u> | 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 direct gsmSCF - 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 Location Information 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 | FiN 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 SI12 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 SI12 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 | 4.4.0 | | 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 | 4.4.0 | | 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 | 3GSPplit |
| 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 | 5.5.0 | 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 | Correction 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 integrity protection | 5.1.0 | 5.2.0 | N1 | IMS-CCR |
| 24.229 | 153 | 2 | Rel-5 | F | NP-020335 | | revised | Registration with integrity protection | 5.1.0 | 5.2.0 | N1 | IMS-CCR |
| 24.229 | 153 | 3 | Rel-5 | F | NP-020487 | | Approved | Registration with integrity 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 I-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 | tba | - | 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE15 |
| 29.010 | 060 | | Rel-5 | F | NP-020458 | N4-020934 | approved | Introduction of GERAN lu-mode | 5.0.0 | 5.1.0 | N4 | TE15 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 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 | TE1 |
| 29.010 | 075 | | Rel-5 | F | NP-020457 | N4-021104 | approved | BSSAP CRSupport for Shared Network in connected mode: definition of | 5.0.0 | 5.1.0 | N4 | TE15 |
| 29.060 | 322 | 1 | Rel-6 | F | NP-020461 | N4-021008 | revised | Clarification re. Response messages | 5.2.0 | 6.0.0 | N4 | TE16 |
| 29.060 | 322 | 2 | Rel-5 | F | NP-020493 | | approved | Clarification re. Response messages | 5.2.0 | | N4 | TE16 |
| 29.060 | 322 | 2 | Rel-6 | F | NP-020475 | N4-021008 | revised | Clarification re. Response messages | 5.2.0 | 6.0.0 | N4 | TE16 |
| 29.060 | 323 | 1 | Rel-6 | F | NP-020461 | N4-021009 | revised | Clarification re. Version Not Supported | 5.2.0 | 6.0.0 | N4 | TE16 |
| 29.060 | 323 | 2 | Rel-5 | F | NP-020493 | | approved | Clarification re. Version Not Supported | 5.2.0 | | N4 | TE16 |
| 29.060 | 323 | 2 | Rel-6 | F | NP-020475 | N4-021009 | revised | Clarification re. Version Not Supported | 5.2.0 | 6.0.0 | N4 | TE16 |
| 29.060 | 324 | 1 | Rel-5 | F | NP-020474 | N4-020985 | Approved | Incorrect reference | 5.2.0 | 5.3.0 | N4 | TE15 |
| 29.060 | 324 | 1 | Rel-6 | F | NP-020461 | N4-020985 | revised | Incorrect reference | 5.2.0 | 6.0.0 | N4 | TE16 |
| 29.060 | 325 | 2 | Rel-5 | C | NP-020454 | N4-021011 | approved | RAB Setup Information for IPv6 | 5.2.0 | 5.3.0 | N4 | TE15 |
| 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 | TE15 |
| 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 | 4.4.0 | 4.5.0 | 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 | Clarificatin re. Version Not Supported | 4.4.0 | 4.5.0 | N4 | GTP enhancement |
| 29.060 | 349 | | Rel-4 | F | NP-020443 | N4-021010 | revised | Clarificatin re. Version Not Supported | 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 | 5.0.0 | 5.1.0 | N2 | CAMEL4 |
| 29.078 | 263 | 1 | Rel-4 | A | NP-020340 | N2-020746 | approved | Correction of 29.078 CANCEL-gprs | 3.12.0 | 3.13.0 | N2 | CAMEL3 |
| 29.078 | 264 | | Rel-5 | D | NP-020342 | N2-020678 | approved | Editorial correction of 29.078 CANCEL-gprs | 4.5.0 | 4.6.0 | N2 | CAMEL3 |
| 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 TpServicePropertyName | 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 IpFaultManager.genFaultStatsRecordReq() | 5.0.0 | | N5 | OSA2 |
| 29.198-03 | 049 | - | Rel-5 | F | NP-020428 | N5-020692 | approved | Correct appUnavailableId 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 TpUInfo 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 TpUInfo 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 requirements on support of methods | 5.0.0 | | N5 | OSA2 |
| 29.198-13 | 001 | - | Rel-5 | F | NP-020439 | N5-020726 | approved | Add text to clarify relationship between 3GPP and ETSI/Parlay OSA | 5.0.0 | | N5 | OSA2 |
| 29.198-13 | 002 | - | Rel-5 | D | NP-020395 | N5-020780 | approved | Add text to clarify requirements on support of methods | 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 |
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| 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 intergrity 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 |
| NP-020347 | 8.3 | CR PACK8 | CRs to Rel-5 WI CAMEL4 | CN2 | 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 | WITHDRAW N before |
| NP-020351 | 8.5 | CR | DiffServ Function in 29.207 | Nortel Networks | WITHDRAW N before |
| 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 |
| 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, |
| 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 | 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#15 | CN4 | NOTED |
| NP-020442 | 6.4.1 | Info | CN4 Output LSs after CN#15 | CN4 | NOTED |
| NP-020443 | 7.3 | CR pack | GPRS Rel-4 & earlier | CN4 | REVISED BEFORE |
| 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, |
| 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 |
| 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 | WITHDRAWN |
| 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 |
| 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 |
|-------|-------------|--------------------|--------------|------------------------------|-------------|---------|
| Ms. | Hwang | Woonhee | | Nokia Japan Co, Ltd | 3GPPMEMBER | ARIB |
| Mr. | Hou | Zhipeng | | HuaWei Technologies Co., Ltd | 3GPPMEMBER | CWTS |
| Miss | Wang | Jie | | HuaWei Technologies Co., Ltd | 3GPPMEMBER | CWTS |
| Miss | Sun | Yuanning | | RITT | 3GPPMEMBER | CWTS |
| Mr. | wei | liang | | RITT | 3GPPMEMBER | CWTS |
| Mr. | Ren | Huimin | | ZTE Corporation | 3GPPMEMBER | CWTS |
| Mr. | SOORMALLY | Sajid | | ALCATEL S.A. | 3GPPMEMBER | ETSI |
| Mr. | Briggs | Michael | | BT Group Plc | 3GPPMEMBER | ETSI |
| Mr. | Ellsberger | Jan | | ERICSSON L.M. | 3GPPMEMBER | ETSI |
| Mr. | Holmström | Tomas | | ERICSSON L.M. | 3GPPMEMBER | ETSI |
| Mr. | Toth | Stefan | | ERICSSON L.M. | 3GPPMEMBER | ETSI |
| Mr. | Boswarthick | David | SECRETARY | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Mrs. | Hughes | Karen | | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Mr. | Jorgensen | Per Johan | | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Mrs. | Jurisc | Andrijana | | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Mr. | Kymalainen | Kimmo | | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Mr. | Zoicas | Adrian | | ETSI Secretariat | 3GPPORG_REP | ETSI |
| Miss | Zhang | Yifan | | ICR | 3GPPMEMBER | ETSI |
| Mr. | Unmehopa | Musa | ViceChairman | Lucent Technologies B.V. | 3GPPMEMBER | ETSI |
| Mr. | Richards | Derek John | | Megisto Systems Inc. | 3GPPMEMBER | ETSI |
| Mr. | Mecrow | Steve | | mmO2 plc | 3GPPMEMBER | ETSI |
| Mr. | Andersen | Niels Peter Skov | | MOTOROLA A/S | 3GPPMEMBER | ETSI |
| Mr. | Howell | Andrew | | MOTOROLA GmbH | 3GPPMEMBER | ETSI |
| Mr. | Barnes | Nigel | | MOTOROLA Ltd | 3GPPMEMBER | ETSI |
| Mr. | Doig | Ian | | MOTOROLA S.A. | 3GPPMEMBER | ETSI |
| Mr. | Hietalahti | Hannu | | NOKIA Corporation | 3GPPMEMBER | ETSI |
| Mr. | Kanerva | Mikko | | NOKIA Corporation | 3GPPMEMBER | ETSI |
| Mr. | Sharp | Iain | | NORTEL NETWORKS (EUROPE) | 3GPPMEMBER | ETSI |
| Mr. | Dubois | Régis | | ORANGE FRANCE | 3GPPMEMBER | ETSI |
| Dr. | Castro | Jonathan Prince | | ORANGE PCS LTD | 3GPPMEMBER | ETSI |
| Mr. | Sampson | Nick | | ORANGE PCS LTD | 3GPPMEMBER | ETSI |
| Mr. | Li | Peng | | QUALCOMM EUROPE S.A.R.L. | 3GPPMEMBER | ETSI |
| Mr. | Brook | Richard | | SAMSUNG Electronics | 3GPPMEMBER | ETSI |
| Mr. | Hiebinger | Ludwig | | SIEMENS AG | 3GPPMEMBER | ETSI |
| Mr. | Klehn | Norbert | | SIEMENS AG | 3GPPMEMBER | ETSI |
| Mr. | Schmitt | Peter | | SIEMENS AG | 3GPPMEMBER | ETSI |
| Mr. | Holm | Thomas | | TDC TELE DANMARK A/S | 3GPPMEMBER | ETSI |
| Mr. | Rainer | Johannes | | Telekom Austria AG | 3GPPMEMBER | ETSI |
| Mr. | Lycksell | Edgar | | TELIA AB | 3GPPMEMBER | ETSI |
| Mr. | Corkovic | Stephen | | VIP-NET GSM d.o.o. | 3GPPMEMBER | ETSI |
| Mr. | Wild | Peter | | Vodafone D2 GmbH | 3GPPMEMBER | ETSI |
| Ms. | Hewson | Ruth | | VODAFONE Group Plc | 3GPPMEMBER | ETSI |
| Mr. | Park | Ian David Chalmers | ViceChairman | VODAFONE Group Plc | 3GPPMEMBER | ETSI |
| Mr. | Jones | Gary | | VoiceStream Wireless Corp. | 3GPPMEMBER | ETSI |

| Title | Surname | Firstname | Role | Organization | Status | Partner |
|-------|-----------|-----------|--------------|-------------------------------|-------------|---------|
| Mr. | Dawkins | Spencer | | Cyneta Networks | 3GPPGUEST | OTHER |
| Mr. | Chander | Sharat | | AT&T Wireless Services, Inc. | 3GPPMEMBER | T1 |
| Mr. | Allen | Andrew | | dynamicsoft Inc. | 3GPPMEMBER | T1 |
| Mr. | Hayes | Stephen | Chairman | Ericsson Inc. | 3GPPMEMBER | T1 |
| Mr. | Montz | Mark | | Hewlett-Packard | 3GPPMEMBER | T1 |
| Mr. | Ehrlich | Ed | | Nokia Telecommunications Inc. | 3GPPMEMBER | T1 |
| Ms. | Kallio | Susanna | | Nokia Korea | 3GPPMEMBER | TTA |
| Miss | Hyewon | Baek | | Samsung Electronics Co., Ltd | 3GPPMEMBER | TTA |
| Mr. | Noda | Akishige | | Fujitsu Limited | 3GPPMEMBER | TTC |
| Mr. | Tamura | Toshiyuki | | NEC Corporation | 3GPPMEMBER | TTC |
| Mr. | Taya | Kunihiko | ViceChairman | NEC Corporation | 3GPPMEMBER | TTC |
| Mr. | Hori | Kazumasa | | NTT DoCoMo Inc. | 3GPPMEMBER | TTC |
| Mr. | Kusunose | Kenya | | NTT DoCoMo Inc. | 3GPPMEMBER | TTC |
| Mr. | Minokuchi | Atsushi | | NTT DoCoMo Inc. | 3GPPMEMBER | TTC |
| Mr. | Nakamura | Hiroshi | | NTT DoCoMo Inc. | 3GPPMEMBER | TTC |
| Mr. | Horisaki | Nobuhiro | | TTC | 3GPPORG_REP | TTC |
| Mr. | Yoshino | Keiji | | TTC | 3GPPORG_REP | TTC |

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) |
| | <p><i>DRAFT v1.0.1 dispatched to the TSG-CN mail exploder for comments.</i></p> <p><i>Comments to be addressed to:</i></p> <p><i>Mr. David Boswarthick, 3GPP TSG CN MCC Support</i> <i>MCC - ETSI Secrétariat</i> <i>Tel :+33 (0)4 92 94 42 78</i> <i>E-mail: david.boswarthick@ETSI.fr</i></p> <p><i>A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.</i></p> <p><i>E-mail comments back by</i></p> |
| | <i>DRAFT v1.1.1 (with rev marks placed to FTP server)</i> |
| | <i>Final v2.0.0 approved at TSG#18 Meeting in Nawlins – Made version 3.0.0 and placed to server as the official meeting report.</i> |