

DRAFT



Third Generation Partnership Project

DRAFT MEETING REPORT v2.0.0

3GPP TSG-CN#22

**Maui, Hawaii
10-12 December, 2003**

Hosted by:

**NA Friends of 3GPP
and
ARIB and TTC**

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CN Chairman's Executive Summary

The following issues were completed:

- Interoperability and commonality between IMS using different IP connectivity networks (IMSCOOP) (95%)
- Enhanced Dialed Services

The short term solution for BS30 accounting was approved. These changes are made back to R99. No companies indicated willingness to contribute to an alternative solution in the longer term.

An agreement was reached with GSMA on the proper usage of “.3gppnetwork.org” for non-Legacy services.

A new work item was approved on full CAMEL4 prepay support for SCUDIF (NP-030584).

The following work items were revised:

- Subscriber Certificates Stage 3 (NP-030511): Cleanup of relationship with GAA
- IP & PS Emergency Calls Stage 3 (NP-030488): Completion slipped to June 04
- OSA Stage 3 (NP-030558): Subtask cleanup and slipped to June 04
- WLAN Stage 3 (NP-030490): Added network selection and slipped to June 04

Several of these completion dates may need to be further revised by the working groups based upon slippage of stage 2 completion dates.

A long and confused discussion occurred the candidate 3GPP specifications for inclusion in Art17 list of standards. There was considerable concern over the list contents. It was agreed that no CN position would be taken on what should be in this list., however the CN chair would collect comments over the CN mail list and consolidate them. This process was subject to change based upon the handling agreed in SA#22.

1 Opening, of the meeting

Stephen Hayes of Ericsson welcomed the delegates to Maui on behalf of the hosts. The meeting was chaired by Mr. Stephen Hayes, (Chair, Ericsson). Additional support was provided by Mr. Iain Sharp (Vice-Chair, Nortel), Mr. Kunihiro Taya (Vice-Chair, NEC), and Mr. David Boswarthick (CN Secretary, MCC).

2 Approval of the agenda

- NP-030446 Draft agenda for CN #22 meeting, MCC. **APPROVED.**
- NP-030447 Allocation of documents to agenda items (start of day 1),CN vice-chairman. **NOTED.**
- NP-030448 Allocation of documents to agenda items (end of day 1),CN vice-chairman. **NOTED.**
- NP-030449 Allocation of documents to agenda items (end of day 2),CN vice-chairman. **NOTED.**
- NP-030450 DAD (end of day 3), CN vice-chairman. **WITHDRAWN**

3 IPR declarations

Reminder for IPR declaration

The chairman made the following call for IPRs, and asked ETSI members to check the latest version of ETSI's policy available on the web server:

The attention of the members of this Technical Specification Group is drawn to 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 members take note that they are hereby 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 the Technical Specification Group.
- to notify the Director-General, or the 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 (e.g. see the ETSI IPR forms <http://webapp.etsi.org/lpr/>).

4 Meeting Reports

4.1 Report from CN#21 meeting

NP-030451 Draft report from CN #21 meeting, MCC
Status: **APPROVED.**

4.2 Reports from other groups

No input to this agenda item.

4.3 IETF coordination report

NP-030463 IETF coordination report, CN Chair.

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

IANA has now allocated the application IDs for the Cx/Dx and Sh interfaces. MCC will replace the "tbds" in the relevant TSs without the need for a CR.

Status: **NOTED.**

4.4 OMA Co ordination Report

NP-030467 3GPP Dependencies on OMA Deliverables, Nortel Networks.

Delegates were asked to examine to document offline and provide comments back to the author. These was no feedback provided in the meeting.

Status: **NOTED.**

5 Incoming liaisons

LSs moved to other sections:

NP-030455 -> 6.3.1
NP-030456 -> 6.4.1
NP-030454 -> 5.4.1
NP-030572 -> 6.4.1
NP-030534 -> 6.4.1
NP-030457 -> 6.5.1
NP-030461 -> 6.5.1

5.1 From TSG-CN working groups

5.2 From other 3GPP groups

NP-030458 LS Reply on charging aspects of Priority Service (draft TR 22.952)[S5-034642], SA5.

Discussion: CN is simply copied for info.

Status: **NOTED.**

NP-030460 LS on SA2 updates of the Work Plan [S2-034367], SA2

Content: Contains the latest updates from SA2 to the 3GPP workplan.

Discussion: Proposed to have an offline discussion in order to examine the changes from SA2 and estimate the impacts of the delays on the Stage 3 work.

The results of the offline session was that a N month slip will forecast by SA2 will result in a N month slip in the stage 3 deliverable. However this is only a general rule and the WGs are best able to determine the actual impacts of a stage 2 slip. The expected slippage was brought up during the workplan discussion.

Status: **NOTED.**

5.3 From other groups

NP-030459 Liaison Statement reply to 3GPP SA2 on Comments on ETSI SR 002 180 V0.3.2 [EM05td018r1] OCG EMTEL

Content: Contains a dialog between OCG EMTEL and SA2 on specifications relevant to Emergency calls

Status: **NOTED.**

NP-030573 Candidate 3GPP specifications for inclusion in Art17 list of standards, ETSI ECN&S STF254.

Content: Preparing a list of specifications relating to emergency calls. A representative of STF 254 Marie-Michele Vassiliou called in to the meeting at 07:00 on Thursday morning.

The document contains the list of specifications to be discussed and agreed upon, for inclusion or not in the Article 17 list of the new Directive. The justification for inclusion in the list is contained in the document DSR_OCG-00011_v000009.pdf.

Contains Annex 1: List of standards and/or specifications from 3GPP R99 for electronic communications networks, services and associated facilities and services; in accordance with Article 17 of Directive 2002/21/EC.

Discussion: It was explained in the presentation that the list included those specifications which might be required to allow a 3rd party to provide services. There was however concern and considerable confusion about what it meant when a specification was on the list. The following concerns were raised:

1. Most of the specifications listed can only be used by the provider of the GSM / UMTS home network. They were never intended to allow a third party to provide services to this network.
2. Does being on the list imply that a specification or interface will need to be opened up? 3GPP CNs concern was that the list of the specification contains documents that have been designed

for the provision of a GSM/UMTS network and making it network independent will not be a trivial task

3. It was noted that the OSA APIs also provide part of the required functionality. However the list only contains the OSA overview, and not the individual OSA API specifications. These need to be added.
4. The list of specs should describe the services and the interfaces for 3GPP R99 only. However the list as presented to the meeting is far from complete. At least the supplementary services need to be added, and the Stage 2 specifications removed.
5. A third party could be considered as either another operator (providing both network and service provision), or a third party service provider.
6. It was commented that 3GPP is a partnership of 5 partners, and this European directive only relates to one of those partners (ETSI).
7. Usually such work within 3GPP would require a Work Item supported by several companies.

The deadline for comments to this document is by 8th January 2004. However comments can be received up to 28th January. In spite of the reservations, CN agreed to open up a comment period on the CN e-mail reflector. Comments are welcomed until the 20th January. The prefix of [ART17] will be used on the email list. A consolidated list will be sent by the CN Chair to marie-michele.Vassiliou@etsi.org by 23rd January. It was stressed that although the 3GPP_CN list is being used for discussion, this does not represent a 3GPP_CN position.

If TSG-SA decides upon a different course of action in handling this issue, then the above plan may be changed.

Status: NOTED.

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-030470 Status Report for TSG CN WG1, CN1 Chair

Discussion: Lucent raised a concern about lack of time in working group meetings to review the revised contributions in the meeting. If companies later discover errors in WG approved CRs, then this adds the additional complication of having a need for email approval for a late CR. This situation seems difficult to avoid when there is a heavy CR load and avoiding parallel sessions. However, there is a need to avoid this process getting out of control.

It was proposed to tag rushed CRs from WG meetings in order to allow them a one plenary 'grace' period to enable any errors in the CRs to be fixed. However this leads to an additional administrative burden and it might lead to less thorough checking of CRs.

It was concluded that the current process in CN1/CN is adequate. The WG should attempt to allow more time to review CRs where possible. Hannu proposed that in future CN1 meetings, the contributions of FROZEN releases will be treated first, allowing time for comments to be made to those CRs.

Also there is the possibility of having more than one WG meeting in between certain plenary meetings. This issue will be discussed under agenda 10.5.

It was stated that CN1 sees no dependency in the protocol area for PRESENCE between 3GPP and OMA (e.g., 3GPP dependent on OMA). There could be an overlap between OMA and 3GPP protocol work on presence, but none has been identified yet.

CN1 indicated that the work on IMSCOOP is now essentially completed.

Work continues on adding an indication of network support of INTER_RAT HANDOVER INFO to the LOCATION UPDATE ACCEPT message. The RR and MM signalling alternatives are still being discussed.

Status: **NOTED.**

NP-030471 CN1#32 Meeting Report, MCC. NOTED.

NP-030472 All LSs sent from CN1 since TSG CN#21 Meeting, MCC. NOTED.

6.1.2 Questions for advice and decisions from CN1

No Input to this agenda item.

6.2 Reporting from TSG-CN WG2

6.2.1 Status report from CN2

NP-030520 CN2 Status Report to CN Plenary, CN2 chairman.

Discussion: It was noted that there are 15 open issues remaining in CN2. It is up to the input from participating companies to ensure these open issues are completed before the handover of work from CN2 to CN4 [May 2004].

CN2 indicated that the work on Enhanced Dialed Services is now complete.

Status: **NOTED.**

NP-030521 CN2#31 Draft Meeting report and CN2 AdHoc meeting report, CN2. NOTED.

6.2.2 Questions for advice and decisions from CN2

No Input to this agenda item.

6.3 Reporting from TSG-CN WG3

6.3.1 Status report from CN3

NP-030559 CN3 Status Report to CN Plenary, CN3 Chair.

Discussion: Discussion: CN1 chair commented on LS N3-030811 contained NP-0030561 on session modification for SBLP (one LS sent to, but not yet seen by CN1). There are two options contained in the LS (either or manipulate the PDP context or SDP media stream). Clarification was given by CN3 chair that either A OR B is acceptable to CN3. CN1 chair believes that either of the two options proposed have significant drawbacks. CN1 will examine this LS in it's next meeting.

It was mentioned that SA5 are submitting 3 CAT B CRs to SA#22 on BS30 accounting, and these are dependant upon CN3's CRs. CN3 chair clarified that CN3 could not agree on a single solution and two solutions (a short-term solution described by a Rel-5 CR and a longer-term solution described by a discussion document) have been provided by CN3 to CN plenary for guidance. If CN#22 approved the solution described by the Rel-5 CR, related CRs for Rel-4 and R99 are available as company contributions. So, CN#22 will be able to approve 3 CRs as precondition for the SA5 CRs.

It was clarified that the current solution for interworking with SIP terminals not supporting preconditions is UE based and being pursued by CN1.

CN3 has the following questions to CN plenary that require guidance:

Gq interface: CN3 is progressing the stage 3 in parallel with the work in SA2. However the changes to 29.207 and 29.208 relating to Gq interface can only provide a 'partial' solution, and introducing CRs to these TSs before work is complete in SA2, would make the TSs inconsistent. CN3 ask that they be able to 'hold' agreed CRs until the solution is complete. The CN plenary supported this view and the package of CRs will only be presented to CN plenary once the solution is considered to be complete by CN3.

BS 30 internetwork accounting:

There is a short term solution for this, and a longer term solution that requires work in the ITU-T that will cause additional delay. See below for the results of the discussion.

Status: **NOTED.**

NP-030560 Draft Meeting Report from CN3#30 Meeting, CN3. **NOTED.**

NP-030561 LSs outgoing from CN3 between CN#21 and CN#22, CN3. **NOTED.**

6.3.2 Questions for advice and decisions from CN3

NP-030455 LS on Inter-network accounting for BS30 based services such as video telephony [N3-030828] CN3

Content: In this LS CN3 kindly asks CN and SA to decide whether a short-term solution for BS 30 should be specified, or whether a longer-term solution involving ITU-T should be specified.

It was clarified that the long term solution broadens the scope of the short term solutions. Therefore it would not be required to remove the short term solution from our specifications

Discussion: In an indicative show of hands gave the following results

12 companies supported the short term solution

0 companies objected to the short term solution for Rel-5

0 companies objected to the short term solution for R99 and later releases

4 companies supported the long term solution

4 companies supported proceeding with the long term solution even if the short term solution is realised.

0 companies objected to proceeding with the long term solution

0 companies stated they would provide contributions on the long term solution

Conclusions:

CN Plenary endorsed the Short term solution for R99 and later releases.

The CN3 CR in NP-030455 is **APPROVED**. [Note this CR should be a CAT A - will be marked as such in CR dbase]. The corresponding CRs to R99 and Rel-5 contained in NP-030538 and NP-030539 are also **APPROVED**.

It was clarified that the majority of the work for the long term solution was actually in ITU. However, some modifications to 3GPP spec would be required to utilize a longer term solution. Given that there was little interest in progressing this work, no work on the long term solution is mandated. Any company interested in the long term solution is asked to present a WID to the WGs in the usual manner.

Status: **NOTED.**

6.4 Reporting from TSG-CN WG4

6.4.1 Status report from CN4

NP-030493 Status report from CN4 to TSG-CN Plenary Meeting #22, CN4 chairman.

Discussion: Ericsson requested a status update on the progress of MSC Handover TRFO work within CN4. The CN4 chair informed the meeting that the remaining TRFO corrections for MSC handover are not seen as essential, and will therefore be included only in Rel-6. Ericsson raised the problem that there are already CRs implemented in Rel-5. These CRs provide a partial solution, that either needs to be completed or removed from Rel-5.

Ericsson was asked to provide input to the next CN4 on the outstanding issues related to this topic. Lucent requested that related CRs need to be made available on the CN4 email exploder as early as possible. CN4 is tasked by TSG_CN to examine and resolve the issue of TRFO. In particular a determination is needed as to whether there are any outstanding Rel 5 essential corrections in this area and if so to agree to these CRs in a timely manner.

The following documents relate to the issue of **Top level domain**

LSs 454 456 572

Discussion document 534,

Alternative CRs 505, 506 and revised versions from Vodafone contained in 574 and 575

Status: **NOTED.**

NP-030494 CN4 meeting report after CN#21, CN4. NOTED.

NP-030495 CN4 Output LSs after CN#21, CN4. NOTED.

NP-030454 Reply LS (to NP-030440) on DNS domains used in 3GPP [Doc 098_03], GSMA IREG – PACKET working party

Content: LS from GSMA in response to the LS from CN Plenary.

GSMA IREG PACKET cannot see any strong, valid reason why an additional domain name should be supported and paid for on the GRX by the GSMA (for the GRX's root DNS server) and all of its member GSM operators (for their local DNS servers).

Currently, the ".gprs" domain name is used by all GSM GPRS/UMTS operators, and it is "up and running" today. The ".3gppnetwork.org" domain name is intended only for future, i.e. not yet deployed, IMS services.

GSMA IREG PACKET working party asks 3GPP TSG CN and 3GPP TSG CN WG4 groups to make the necessary changes to use only the ".gprs" domain name for all current and future services that require inter PLMN only DNS resolution.

Status: **NOTED.**

NP-030456 LS on DNS top level domains [N4-031367], CN4

Content: As Rel-5 is now frozen and the IETF has requested that 3GPP not further use the .gprs TLD, 3GPP would like to maintain the usage of ".3gppnetwork.org" in the case of initial IMS registrations when no ISIM is present

Status: **NOTED.**

NP-030572 Liaison Statement to 3GPP TSG CN and 3GPP TSG CN4 on DNS domains used on the GRX ,GSMA PACKET#17

Content: GSMA IREG PACKET working party asks 3GPP TSG CN and 3GPP TSG CN4 groups to:

1. Use the ".3gppnetwork.org" domain name only for the case where an IMS client does not have access to an ISIM and for any future services; legacy services should still be allowed to use the ".gprs" domain.
2. Align the structure of the ".3gppnetwork.org" domain to that used for the ".gprs" domain.
3. Correct the instances in 3GPP TS 23.003 where it is stated that 4 digit MNCs and MCCs are used in the ".gprs" domain name, to state that only 3 digit MNCs and MCCs shall be used.

Discussion: It was clarified that current all use .gprs for PDP context setup. This usage is independent of IMS initiation. This usage of .gprs is not propagated over the general internet.

Status: **NOTED.**

NP-030534 3GPPnetwork.org Management Orange

Content: This document raises the needed questions that shall be answered in order to insure that "3gppnetwork.org" usage will meet the GSMA requirements.

Action 1: ETSI/3GPP secretary to inform 3GPP CN of the conditions and the commitments to ICANN concerning the management of the "3gppnetwork.org" domain.

Action 2: define what will be the management rules of the 3gppnetwork.org domain by (at least) answering the above questions

Action 3: inform GSMA about these management rules in order to have the confirmation that they correspond to their understanding and fulfil their requirements

Action 4: inform all the relevant 3GPP groups in which cases the 3gppnetwork.org domain can be used, what is its structure, how a new sub-domain can be allocated and by whom.

Discussion: The domain name "3gppnetwork.org" is in the process of being transferred from ETSI to the GSMA. In the future, it is the GSMA that will manage the DNS servers and manage the sub-structures. This will be expedited.

It was raised that there is already with an alternate usage of ".3gppnetwork.org" in the WLAN TS, and Orange have an issue with this. Orange proposed to send an LS to GSMA and also to the 3GPP WGs to inform them of the status of this issue.

CN asks that all uses of "3gppnetwork.org" shall be contained in 23.003, which is under the control of CN1 and CN4. These two groups will work with the GSMA on the issue of the structure of the "3gppnetwork.org" domain name usage.

Stephen will report the decisions on this issue to SA#22 and request that all usages of "3gppnetwork.org" be documented only in 23.003.

An LS will be sent to GSMA [NP-030576] to be produced by Francois Dronne (Orange).

Based on the above decision, the CR contained in NP-030505 is not agreed. The solution contained in NP-030506 has been improved and corrected. The new CRs are contained in NP-030574 and 030575 (replaced by NP-030577 and 030578)

Status: **NOTED.**

NP-030576 LS OUT " Management of the "3GPPnetwork.org" domain", Orange (TSG_CN).

Content: Informs GSMA IREG of the following TSG_CN conclusions:

3GPP would like to transfer the ownership of the 3gppnetwork.org domain to GSMA. GSMA would then manage the use of this domain as for .gprs TLD.

GSMA would then be in charge of the allocation of 3gppnetwork.org sub-domains to relevant entities or operators and will specify the format of the address which shall be used. GSMA IREG will be responsible for the allocation of the subdomains of "3gppnetwork.org" used within 3GPP networks. The description of all the addresses will be documented in the TS 23.003 and other 3GPP specifications will refer to it. On request of 3GPP, GSMA IREG will determine the format of the addresses to be used (i.e. the domain and the structure of the address).

Discussion: It was asked if the allocation of the allocations will be made publicly available. It was answered that 3GPP doesn't need the allocation document, only require an explanation of the structure.

ACTION 2, was re-phrased to avoid confusion. also some minor editorial comments.

Status: **REVISED to -0587.**

↓ **REVISED** ↓

NP-030587 LS OUT "Management of the "3GPPnetwork.org" domain", Orange (TSG_CN). **APPROVED.**

6.4.2 Questions for advice and decisions from CN4

No Input to this agenda item.

6.5 Reporting from TSG-CN WG5

6.5.1 Status report from CN5

NP-030540 **Chair's report from CN5 (slide presentation), CN5 Chair.**

The group indicated that it was awaiting input from SA1 on SA2 in order to proceed on GUP mapping.

The cleanup of carryover Rel 5 OSA tasks is now complete.

CN5 will no longer be able to co-locate with the other CN WGs in August due to a conflict with OMA. CN thanked Musa Unmehopa for his service as CN5 vice-chair. He is replaced by John-Luc Bakker.

Status: **NOTED.**

NP-030541 **CN5 Output LSs after CN#21, CN5. WITHDRAWN.**

NP-030536 **CN5 Output LSs after CN#21, CN5. NOTED.**

NP-030542 **Draft Report of CN5#25, CN5 Chair. WITHDRAWN.**

NP-030537 **Draft Report of CN5#25, CN5 Chair. NOTED.**

NP-030457 **Request for clarification on the scope of the Ut interface towards the OSA-SCS [N5-030665] CN5**

Content: CN5 asks CN and SA2 to clarify what work, if any, is required of CN5 to support the Ut interface.

Status: **NOTED.**

NP-030461 **Reply LS to CN5 on Request for clarification on the scope of the Ut interface towards the OSA-SCS [S2-034363] SA2**

Content: SA2 thank CN5 for their LS regarding the Ut interface. The purpose of the Ut interface is to provide a means for the client on the UE to manage the application on the AS. SA2 does not foresee any need for the OSA API to support Ut.

Discussion: There is some confusion due to the content of the figure. CN5 will respond back to SA2. It was agreed that OSA does not need to support the Ut interface.

Status: **NOTED.**

6.5.2 Questions for advice and decisions from CN5

No Input to this agenda item.

6.6 Status ITU-T ad hoc group

NP-030464 ITU-T co-ord ad-hoc report: CN chairman. **NOTED.**

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

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

7.1 CAMEL Phase 2 and Phase 3

NP-030496 CR to R97 on Work Item Camel 2, CN4.

Discussion: Motorola did not see this as an essential change for R97. Asked CN to explain how this can be classified as a frequent and re-occurring error.

The CN2 chair explained that this CR answers a recurrent question on the topic.

Motorola did not sustain their objection, however had several comments to the CR itself.

Clause impacted by the change is not noted on the cover page. Possible wrong version of TS used.

Comments included in the body text of the change as opposed to the CR cover page.

Motorola insisted that this information be included on the CR cover sheet and not in the text of the CR. CN Plenary supported that explanations should be kept to the cover sheet.

Status: **REVISED to 0579.**

↓ **REVISED** ↓

NP-030579 CR to R97 on Work Item Camel 2, CN4.

Status: **APPROVED.**

7.2 Security

No Input to this agenda item.

7.3 GPRS

NP-030497 CR to Rel-4 and earlier on Work Item GPRS, CN4. APPROVED.

NP-030563 CR PACK on GPRS Pack 1, CN3. APPROVED.

7.4 Location service enhancement [LCS1]

NP-030498 CR to Rel-4 on Work Item Location Service Enhancement, CN4. APPROVED.

7.5 Handover

No Input to this agenda item.

7.6 GSM- UMTS Interworking

NP-030473 CR to Rel-4 (with mirror CR) on Work Item GSM/UMTS interworking towards 23.009, CN1. APPROVED.

7.7 Transcoder Free Operation [TrFO]

No Input to this agenda item.

7.8 Enable bearer independent CS architecture [CSSPLIT]

No Input to this agenda item.

7.9 Multicall

No Input to this agenda item.

7.10 OSA Enhancements [OSA1]

NP-030543 Rel-4/5 CRs 29.198-02 OSA API Part 2: Common data, CN5.

Discussion: CR 37 and 38 clauses marked are inconsistent. The clauses between releases do not seem to be aligned. A Zoicas [MCC] Explained that the TSs are automatically created which can lead to different clause numbers. However Motorola maintained that some of the clause changes are still incorrect. (Duplication of 5.1.16]

Doc-1st-Level	Spec	CR	R	Ph	Subject	Cat	Version-Current	Doc-2nd-Lev	WI
NP-030543	29.198-02	037	-	Rel-4	Description correction of TpOctetSet	F	4.6.0	N5-030620	REV to 0580
NP-030543	29.198-02	038	-	Rel-5	Description correction of TpOctetSet	A	5.4.0	N5-030621	REV to 0580
NP-030543	29.198-02	039	-	Rel-4	Clarify use of base interface Reference within an inheritance relationship	F	4.6.0	N5-030622	APPROVED
NP-030543	29.198-02	040	-	Rel-5	Clarify use of base interface Reference within an inheritance relationship	A	5.4.0	N5-030623	APPROVED

Status: **PARTIALLY APPROVED / REVISED to 0580**

↓ **REVISED** ↓

NP-030580 Two Rel-4/5 CRs 29.198-02 OSA API Part 2: Common data, CN5. **APPROVED**

NP-030544 Rel-4/5 CRs 29.198-04 OSA API Part 4: Call control, CN5. **APPROVED**

NP-030545 Rel-4/5 CRs 29.198-05 OSA API Part 5: Generic user interaction, CN5. **APPROVED**

NP-030546 Rel-4/5 CRs 29.198-12 OSA API Part 12: Charging, CN5. **APPROVED**

7.11 Small Technical Enhancements & Improvements [TEI]

NP-030474 CR to R98 on Work Item TEI towards 04.08, CN1. **APPROVED**

NP-030499 CR to R99 on Work Item Small Technical Enhancements and Improvements, CN4. **APPROVED**

7.12 Any Other pre-Release 5 WI

NP-030562 CR PACK on CS Data Pack 1, CN3. **APPROVED.**

NP-030538 Backward signalling of service information between VMSC and GMSC for MTC T-Mobile [R99], [Note this CR should be a CAT F - will be marked as such in CR dbase]. **APPROVED.**

NP-030539 Backward signalling of service information between VMSC and GMSC for MTC T-Mobile, [Rel-4] [Note this CR should be a CAT A - will be marked as such in CR dbase]. **APPROVED.**

8 Release 5:

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

8.1 Provisioning of IP-based multimedia services [IMS]

NP-030475 CRs to Rel-5 on Work Item IMS-CCR towards 23.218 and 24.228, CN1. **APPROVED.**

NP-030476 CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 1, CN1. **APPROVED.**

NP-030477 CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 2, CN1.

Discussion: Depends upon an SA3 CR. However dependency is not shown on the CR cover sheet.

Status: **CONDITIONALLY APPROVED [dependant upon a CR in SA#22.]**

NP-030478 CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 3, CN1. **APPROVED.**

NP-030479 CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 4, CN1.

Discussion: NEC have a company revision of two CRs in NP-030465 and 466.

Status: **REVISED to 0581.**

↓ **REVISED** ↓

NP-030581 CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 4, CN1.

Discussion: This CR is linked to a corresponding SA5 CR.

Status: **CONDITIONALLY APPROVED [SA5 CR needs to be approved].**

NP-030465 Corrections on ICID for REGISTER, NEC.

Discussion: CR rev number should be Rev3.

Status: **WITHDRAWN.**

NP-030466 Corrections on ICID for REGISTER, NEC.

Discussion: CR rev number should be Rev3.

Status: **WITHDRAWN.**

NP-030480 CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 5, CN1. **APPROVED.**

NP-030500 CR to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface, CN4. **APPROVED.**

NP-030501 CR to Rel-5 on Work Item IP-based multimedia services Sh-interface, CN4. **APPROVED.**

NP-030502 CR to Rel-5 on Work Item IP-based multimedia services, CN4. **APPROVED.**

8.2 OSA enhancements [OSA2]

NP-030547 Rel-5 CRs 29.198-01 OSA API Part 1: Overview, CN5. **APPROVED.**

NP-030548 Rel-5/6 CRs 29198-02/13/14, CN5.

Discussion: It was noted that the file names contained in the zip file are inverted

Status: **APPROVED.**

- NP-030549 Rel-5 CRs 29.198-03 OSA API Part 3: Framework, CN5. **APPROVED.**
- NP-030550 Rel-5/6 CRs 29.198-04-3 OSA API Part 4: Call control; Sub-part 3: Multi-Party Call Control SCF, CN5. **APPROVED.**
- NP-030551 Rel-5/6 CRs 29.198-04-4 OSA API Part 4: Call control; Sub-part 4: Multi-Media Call Control SCF, CN5
- Discussion:** Rel-6 mirror is required. CN5 will be notified of this and requested to ask for contributions.
- Status:** **APPROVED.**

8.3 CAMEL Phase 4 [CAMEL4]

NP-030522 CRs to Rel-5 WI CAMEL4, CN2.

- Discussion:** CR636r1 Cover sheet does not show clauses impacted. Also there are a number of CN2 CRs containing information text in the CR body as opposed in the CR coversheet. Motorola consider it preferable that this information be contained in the Cover sheet, which is where it is supposed to be kept. Lucent supported this, as a number of companies pull such information from the CR coverage into their various databases.
- However the CN2 chair defended the use of such in body text information, as CN2 consider it provides additional clarity.
- CN Plenary asks that all CN WGs use the reason for change box in the CR coversheet as opposed to information in the body of the document.

Status: **APPROVED.**

NP-030523 CRs to Rel-5 WI CAMEL4, CN2.

- Discussion:** An number of CRs are missing the clauses effected on the CR cover sheet. Delegates and MCC are asked to give extra care to this issue in the future when agreeing CRs.
- N2-030583 contains several CR editor's notes. However these are allowed and are for implementation guidance and will not be added to the TS text.

Status: **APPROVED.**

NP-030524 CRs to Rel-5 WI CAMEL4, CN2. **APPROVED.**

NP-030525 CR to Rel-5 WI IMS-CAMEL, CN2. . **APPROVED.**

NP-030530 CRs to Rel-5 WI CAMEL4, CN2. **NOT APPROVED [Replaced by 0531 and 0532].**

NP-030503 CR to Rel-5 on Work Camel 4, CN4. **APPROVED.**

NP-030531 Extension of QoS for HSDPA in GPRS CAMEL NEC, Vodafone. **APPROVED.**

NP-030532 Extension of QoS for HSDPA in GPRS CAMEL NEC, Vodafone. **APPROVED.**

8.4 Location Service Enhancements [LCS1]

No Input to this agenda item.

8.5 End to End QoS [E2EQoS]

NP-030565 CR PACK on E2EQoS, CN3. **APPROVED.**

8.6 Security enhancements [SEC1]

No Input to this agenda item.

8.7 Service Change and UDI Fallback [SCUDIF]

NP-030564 CR PACK on SCUDIF, CN3. **APPROVED.**

8.8 Technical Enhancements and Improvements [TEI5]

NP-030481 CR to Rel-5 (with mirror CR) on Work Item TEI5 towards 24.008, CN1. **APPROVED.**

NP-030504 CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4. **APPROVED.**

NP-030505 CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4. **REJECTED**

NP-030506 CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4. **REVISED to 0574 and 0575**

↓ **REVISED** ↓

NP-030574 CR to 23.003 Rel-5, Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD, Vodafone.

Discussion: Replaces NP-030506. Incorporates the changes requested by Orange. CN4 chair commented that the CR includes only examples of how the domain name is created, whereas a rule needs to be included.

Also there is a need to mark changes to UE on the coverpage.

Status: **REVISED to 0577**

↓ **REVISED** ↓

NP-030577 CR to 23.003 Rel-5, Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD, Vodafone. **APPROVED.**

NP-030575 CR to 23.003 Rel-6, Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD, Vodafone.

Status: **REVISED to 0578**

↓ **REVISED** ↓

NP-030578 CR to 23.003 Rel-6, Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD, Vodafone. **APPROVED.**

NP-030507 MAP CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4. **APPROVED.**

NP-030508 CR to Rel-5 on Work Item High Speed Data Packet Access, CN4. **APPROVED.**

NP-030509 CR to Rel-5 on Work Item Mobile Number Portability, CN4. **APPROVED.**

NP-030518 CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4

Discussion: NEC had some concerns with the CR056r2 and 057r2. Various comments to Cover sheet (reason for change and consequences) as well as to the body text of the CRs.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Status
29.228	056	2	N4-031376	Rel-5	Conditions for inclusion of Charging Information	F	REVISED to 0585
29.228	057	2	N4-031377	Rel-6	Conditions for inclusion of Charging Information	A	REVISED to 0585
29.229	029		N4-031378	Rel-5	Clarification of inclusion of elements in Charging Information	F	APPROVED

29.328	042		N4-031379	Rel-5	Clarification of inclusion of elements in Charging Information	F	APPROVED
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Status: **PART APPROVED / REVISED to 0585.**

↓ **REVISED** ↓

NP-030585 2 CRs on CR to Rel-5 on Work Item small Technical Enhancements and Improvements, CN4

Status: **APPROVED.**

NP-030519 CR to Rel-5 on Work Item small Technical Enhancements and Improvements GTP Rel-5, CN4.
APPROVED.

8.9 Any other Rel-5 WI

NP-030566 CR PACK on CS Data Pack 2 CN3. **APPROVED.**

NP-030567 CR PACK on GPRS Pack 2 CN3. **APPROVED.**

NP-030568 CR PACK on HSDPA CN3. **APPROVED.**

9 Release 6

9.1 IMS Phase 2 [IMS]

NP-030482 CRs to Rel-6 on Work Item IMS2 towards 24.229 and 23.218, CN1. **APPROVED.**

NP-030483 CRs to Rel-6 on Work Item IMS2 towards 24.229, CN1. **APPROVED.**

9.2 Support of Presence Capability [PRESNC]

NP-030510 CR to Rel-6 on Work Item Support of Presence Capability, CN4. **APPROVED.**

9.3 Security Enhancements[SEC1]

NP-030511 Updated WID on Subscriber Certificates, CN4.

Discussion: SA3 date is now June 2004, therefore CN4 dates may need to slip back even further.

Status: **APPROVED.**

NP-030492 WID for Support for subscriber certificates, stage 3, CN1. **NOTED.**

9.4 Emergency Call Enhancements [EMC1]

NP-030488 WID for Emergency Call Enhancements for IP& PS Based Calls - stage 3, CN1. **APPROVED.**

9.5 Speech Recognition and Speech Enabled Services[SRSES]

No Input to this agenda item.

9.6 Generic User Profile [GUP]

No Input to this agenda item.

9.7 OSA Enhancements [OSA3]

NP-030553 Rel-6 CRs 29.198-1/14 OSA API Parts 1-14 and 29.998-04-4: OSA API Support for 3GPP2 networks, CN5. **APPROVED.**

NP-030554 Rel-6 CRs 29.198-03/05 OSA API Part 3: Framework/ Part 5: Generic user interaction, CN5.

Discussion: CR94 has the wrong version number used. However this makes no difference to the implementation.

Status: **APPROVED.**

NP-030555 Rel-6 CR 29.198-05 OSA API Part 5: Generic user interaction, CN5. **APPROVED.**

NP-030556 Rel-6 CR 29.198-11 OSA API Part 11: Account management, CN5. **APPROVED.**

NP-030557 Rel-6 CRs 29.198-14 OSA API Part 14: Presence and Availability Management (PAM), CN5. **APPROVED.**

NP-030552 Draft Rel-6 TS 29.199 v100 on Parlay X Web Services, CN5. **NOTED.**

NP-030558 Revised Rel-6 Work Item Description for OSA Stage 3, CN5. **APPROVED.**

9.8 Multimedia Broadcast and Multicast Service [MBMS]

NP-030489 TR 29.846 Multimedia broadcast / multicast service;CN1 procedure description, CN1. **NOTED.**

NP-030512 CR to Rel-6 on Work Item Multimedia Broadcast and Multicast Service, CN4. **APPROVED.**

9.9 IMS Messaging

No Input to this agenda item.

9.10 IMS Conferencing

No Input to this agenda item.

9.11 Interop & Commonality between IMSs using different IP-connectivity networks

NP-030484 CRs to Rel-6 on Work Item IMSCOOP towards 24.229 CN1. **APPROVED.**

9.12 Interworking IMS<->IP

No Input to this agenda item.

9.13 Interworking IMS<->CS

NP-030569 CR PACK on IMS-CCR-IWCS, CN3.

Discussion: Once CR is missing a clause affected part

Status: **APPROVED.**

9.14 Enhanced Dialed Services [EDCAMEL]

NP-030526 Collective CR for TS 23.078 on Rel-6 Enhanced Dialed Services for CAMEL, CN2. **APPROVED.**

NP-030527 Collective CR for TS 29.078 on Rel-6 Enhanced Dialed Services for CAMEL, CN2. **APPROVED.**

NP-030515 CR to Rel-6 on Work Item ED Camel, CN4. **APPROVED.**

9.15 Bearer Independent Arch in PS

No Input to this agenda item.

9.16 MRFC to MRFP I/f (Mp) [IMS-CCR-Mp]

No Input to this agenda item.

9.17 MGCF to IM MGW I/f (Mn) [IMS-CCR-Mn]

NP-030570 CR PACK on IMS-CCR-MN, CN3. **APPROVED.**

9.18 WLAN [WLAN]

NP-030485 CRs to Rel-6 on Work Item TEI6 towards 24.007 and 24.008, CN1.

Discussion: Base version of CR803r2 is stated on CR cover page as R99 should be Rel-6. This was checked offline and found to be correct.

Status: **APPROVED**

- NP-030571 SSD and Signalling indication in QoS IE, Nokia. **APPROVED.**
- NP-030486 CRs to Rel-6 on Work Item TEI6 towards 44.065 and 44.068, CN1. **APPROVED.**
- NP-030513 Updated WID on WLAN, CN4. **NOTED.**
- NP-030490 WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking, CN1. **APPROVED.**
- NP-030491 TS 24.234 3GPP system to Wireless Local Area Network (WLAN) interworking; User Equipment (UE) to network protocols, CN1. **NOTED.**

9.19 Location Service Enhancements [LCS2]

NP-030514 CR to Rel-6 on Work Item Location Service Enhancements, CN4.

Discussion: One CR is shown as being made to the wrong version in the coverage page.

It was noted that this CR pack does not include the alignment with the CRs from the last 2 SA2 meetings. Further alignment CRs will be required in CN4.

The change in CR 29.002 680r2 was requested to be “release independent”, Several companies supported having CRs back to early releases in order to make this function release independent. MCC clarified that there is no mechanism documented for making a feature release independent. Simply adding a note to the Rel-6 specification is not acceptable, and changes back to earlier releases are required for clarity. CN Plenary tasked CN4 to create the required CRs for R97 and onwards.

CRs need to be made in SA2 also. Stephen will inform SA#22, of CN's willingness to have CRs to all releases from R97 onwards. Stephen will recommend that this will be done consistently across all TSGs.

Status: **APPROVED.**

9.20 Network Sharing [NTShar]

No Input to this agenda item.

9.21 QoS improvements [QoS1]

No Input to this agenda item.

9.22 Small Technical Enhancements and Improvements [TEI6]

NP-030528 CRs to Rel-6 WI TEI_6, CN2. APPROVED.

NP-030516 MAP CR to Rel-6 on Work Item small Technical Enhancements and Improvements, CN4. APPROVED.

NP-030517 CR to Rel-6 on Work Item small Technical Enhancements and Improvements, CN4. APPROVED.

NP-030533 CRs on EXPORT data types to CAP (Change of position armed with criteria), Siemens. APPROVED.

9.11 Any other Rel-6 WI

NP-030487 CR to Rel-6 on Work Item MULTBF-Agb mode towards 24.008, CN1. APPROVED.

NP-030529 WID: CAMEL Prepay interworking with SCUDIF, CN2

Discussion: MCC raised that this should not be a building block under TEI6. If a WID is generated, there should be a code allocated to in (not TEI). TEI is only used for small work items that don't deserve their own WI codes. This will be raised to a feature and an acronym will be found.

Status: **Revised to 0584.**

↓ **REVISED** ↓

NP-030584 WID: CAMEL Prepay interworking with SCUDIF, CN2. **APPROVED.**

10 TSG CN work organization

10.1 Principles for work organization within CN

No Input to this agenda item.

10.2 Terms of Reference

No Input to this agenda item.

10.3 Support Arrangements

No Input to this agenda item.

10.4 Working methods / Work Style

No Input to this agenda item.

10.5 Future Meeting Schedule

NP-030583 2004 Meeting schedule, source MCC.

Comments: The recent PCG recommendation states that only one WG meeting is allowed in between Plenary meetings. However it is possible to ask for support for extra meetings, but this needs to be requested directly to MCC.

Requirements for additional meetings (with MCC support):

CN1 requests extra meetings in **Jan 2004** and **April 2004**.

CN3 requests an extra meeting in **April 2004**.

CN4 request an extra meeting in **13-16th April 2004**.

CN5 request extra meetings in **Jan 2004** and possibly more.

CN chair will request to MCC the required resources for the above dates (13-16th April meeting for CN1,3 and 4 will be planned in Sophia).

Status: **NOTED**

Feb 2004					
Joint CN WG Meeting (CN1, 2, 3, 4, 5)	WG	16 - 20 Feb 2004	Atlanta., NA Friends	US	
Mar 2004					
3GPPCN#23	OR	10 - 12 Mar 2004	Phoenix, NA Friends	US	
May 2004					
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	10 - 14 May 2004	Croatia, EF3	CR	
Jun 2004					
3GPPCN#24	OR	2 - 4 Jun 2004	Seoul, TTA	KR	
Aug 2004					
Joint CN WG Meeting (CN1, 2, 3, 4)	WG	16 - 20 Aug 2004	Sophia, ETSI	FR	
Sep 2004					
3GPPCN#25	OR	8 - 10 Sep 2004	Palm Springs, NA Friends	US	
Nov 2004					
Joint CN WG Meeting (CN1, 2, 3, 4,5)	WG	15 - 19 Nov 2004	t.b.d, Korea, Samsung	KR	
Dec 2004					
3GPPCN#26	OR	8 - 10 Dec 2004	Athens, EF3	GR	

11 Specifications in TSG-CN domain

NP-030468 Rel-5 Specs not yet upgraded to Rel-6 MCC, JMM. **NOTED.**

NP-030469 Status list before meeting MCC, JMM. **NOTED.**

12 Review of 3GPP Work Plan

NP-030452 3GPP Work Plan, source MCC.

Status: **REVISED to NP-030582**

↓ **REVISED** ↓

NP-030582 3GPP Work Plan, source MCC [now includes CN1 input].

Status: **NOTED - Will be updated before presentation to SA#22.**

NP-030453 3GPP Work Plan [Slide Presentation], source MCC

Comments: Comments were made online to the slides:-

- Slide 23 PS domain and IMS impacts for supporting IMS Emergency calls, Several companies believe they can finish the work by December 2004. (September at the absolute earliest). Date changed to Sept/Dec.
- Slide 24 LCS enhancements - March 2004 seems reasonable for 3GPP, but some of the work is sub-contracted to OMA.
- Slide 27 Interworking between IMS and CS networks, does not include Mj and Mg interfaces. 29.163 approved at CN#21 but not yet completed.
Mn interface - not delayed to June 2004, it is still March 2004.
Mm interface should be changed to UE based interworking to external IP network
- Slide 28 Gq interface Stage 2 is only at 50%
CN3 are presently working only on the generic solution for IPv4 - IPv6 interworking. CN3 has no work underway for the WID "Interworking aspects and migration scenarios for IPv4-based IMS Implementations"
Move the IETF note to bottom of page.
- Slide 29 IMS messaging should move back to June / September 2004.
- Slide 31 Push Services Stage 3 not before June 2004.
- Slide 36 CN4 are also involved in Presence, work started some more required.
- Slide 37 CN4 are also involved in MBMS, work started some more required. Stage 3 will not be completed before June 2004.
- Slide 40 No CN1 work expected on SRES.
- Slide 43 WLAN. May be split into the two scenarios (to be discussed in SP#22).
- Slide 47 QoS improvements. Stage 3 will not be completed before June 2004.
- Slide 40 No CN1 work expected on AMR WB+.
- Slide 59 BARS no stage 3 work envisaged for the moment.
- Slide 60 PoC no stage 3 work ongoing for the moment. / but requirements are not yet well known. Sept 2004 is the earliest date for stage 3.

Conclusions Slides 76 - CN proposed wording changes to the conclusions, that made the message clearer.

Status: **NOTED - Will be updated before presentation to SA#22.**

NP-030586 Proposal for improving the accuracy of work planning, source MCC

Content: The 3GPP Support Team (MCC) proposes the following actions:

1. Time scales recorded in WIDs should be relative, not absolute. That is, rather than estimating the completion date, the WID should state the number of months required to complete it.
2. All work items should be shown as having started not on approval of the WID, but on the generation of the first subsequent contribution to the responsible Working Group.
3. Stage 2 work should not be targeted to start until the stage 1 work reaches at least 50 %. When Stage 1 is provided by the means of new specification(s), this means that the corresponding specification has been presented to the TSG for information.
4. Stage 3 work should not be targeted to start until the stage 2 work reaches at least 50 % (i.e. if applicable, corresponding new specification presented to the TSG for information).

When a stage is delayed, the subsequent stages are shifted by MCC to respect points 3 and 4 above, unless explicit statement is made in the WID that some stages can overlap. These simple points, which can be managed by the Support Team without implying any additional work for the TSGs or their WGs other than checking the resulting Gantt chart, should provide a much more realistic work plan, enabling better progress tracking, and a more reassuring Gantt chart. In addition, the Support Team should be permitted to interpret the information coming from the Working Groups to eliminate obvious inaccuracies and report back to the WGs what updates were made.

Content: Will reduce the administrative work required in updating the WIDs. It is not envisaged that these changes will be applied to existing WIDs. TSG_CN generally agreed to the proposal. However had concerns that it would restrict the way work is allowed to start. It was clarified that this was not the intent and the changes are only limited to the tracking or work. Questions were raised as to how 3GPP can track the work of external bodies (such as OMA).

Status: **NOTED**

NP-030462 Overview of R99 Sultan, MCC.

Comments: Will also be presented to SP#22, comments are welcomed by the MCC.
Status: **NOTED - Will be updated before presentation to SA#22.**

13 Postponed issues from earlier in the meeting

No Input to this agenda item.

14 Any other business

No Input to this agenda item.

15 Close of Meeting

The Chairman thanked the host, delegates and MCC for their participation, and closed the meeting at 15:00 on 11th December.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved

Tdoc	Tdoc Title	LS to	LS cc	LS Attachment
NP-030587	Management of the "3GPPnetworg.org" domain	GSMA IREG	TSG_SA, CN4	none

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

None

A.3 New / Revised Work Items Approved

Tdoc	Tdoc Title	Source	Rel
NP-030584	WID: CAMEL Prepay interworking with SCUDIF	CN2	Rel-6
NP-030488	Emergency Call Enhancements for IP& PS Based Calls - stage 3	CN1	Rel-6
NP-030490	WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking	CN1	Rel-6
NP-030511	Updated WID on Subscriber Certificates	CN4	Rel-6
NP-030558	Revised Rel-6 Work Item Description for OSA Stage 3 (Update of CN#21-approved NP-030353)	CN5	Rel-6

A.4 Status of CRs following TSG CN Plenary meeting

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
04.08	A1143	-	R98	F	NP-030474	N1-031523	approved	Correction of MS network capability IE	7.20.1	7.21.0	N1	TEI
23.009	100	-	Rel-4	F	NP-030473	N1-031509	approved	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041	4.8.0	4.9.0	N1	GSM/UMTS interworking
23.009	101	-	Rel-5	A	NP-030473	N1-031510	approved	Correcting a mistake in previously approved category A of its Rel99 category F CR 091 Rev 1 in NP-030041	5.6.0	5.7.0	N1	GSM/UMTS interworking
23.218	053	3	Rel-5	F	NP-030475	N1-031630	approved	Flow number corrections in Annex B	5.6.0	5.7.0	N1	IMS-CCR
23.218	059		Rel-6	F	NP-030482	N1-031468	approved	Corrections on charging specification number	5.6.0	6.0.0	N1	IMS2
24.007	059	1	Rel-6	F	NP-030485	N1-031653	approved	Don't use SAPI to differentiate between messages of the same message type.	5.1.0	6.0.0	N1	TEI6
24.008	803	2	Rel-6	F	NP-030485	N1-031651	approved	TFT error handling	6.2.0	6.3.0	N1	TEI6
24.008	816	-	Rel-6	C	NP-030485	N1-031390	approved	ePLMN list extension	6.2.0	6.3.0	N1	TEI6
24.008	818	1	Rel-6	F	NP-030485	N1-031649	approved	SM signalling in case tear down is requested	6.2.0	6.3.0	N1	TEI6
24.008	819	-	Rel-6	B	NP-030487	N1-031504	approved	Addition of multiple TBF capability flag to MS RAC IE	6.2.0	6.3.0	N1	MULTBF-Agbmode
24.008	820	-	Rel-6	F	NP-030485	N1-031505	approved	Order of frequency bands in MS Radio Access Capability IE	6.2.0	6.3.0	N1	TEI6
24.008	821	-	Rel-5	F	NP-030481	N1-031506	approved	Correction to the Multislot Power Profile Classes	5.9.0	5.10.0	N1	TEI5
24.008	822	-	Rel-6	A	NP-030481	N1-031507	approved	Correction to the Multislot Power Profile Classes	6.2.0	6.3.0	N1	TEI5
24.008	823	-	Rel-6	D	NP-030485	N1-031516	approved	Correction of timer handling in diagram 4.7.7a	6.2.0	6.3.0	N1	TEI6
24.008	826	-	Rel-6	F	NP-030485	N1-031525	approved	Removal of codepoint for GTP ack mode	6.2.0	6.3.0	N1	TEI6
24.008	827	-	Rel-6	F	NP-030485	N1-031529	approved	SSD and Signalling indication in QoS IE	6.2.0	6.3.0	N1	TEI6
24.008	830	-	Rel-5	F	NP-030571	NP-030571	approved	SSD and Signalling indication in QoS IE	5.9.0	5.10.0	N1	TEI5
24.228	119	-	Rel-5	F	NP-030475	N1-031446	approved	Correction to description or RES/XRES usage	5.6.0	5.7.0	N1	IMS-CCR
24.228	120	1	Rel-5	F	NP-030475	N1-031638	approved	'Roaming' word and CS-O sessions	5.6.0	5.7.0	N1	IMS-CCR
24.228	121	1	Rel-5	F	NP-030475	N1-031639	approved	Corrections regarding SDP handling	5.6.0	5.7.0	N1	IMS-CCR
24.228	122	-	Rel-5	F	NP-030475	N1-031487	approved	Correction of reregistration flow	5.6.0	5.7.0	N1	IMS-CCR
24.228	123	1	Rel-5	F	NP-030475	N1-031620	approved	Correction of flow in 6.9.3	5.6.0	5.7.0	N1	IMS-CCR
24.228	124	1	Rel-5	F	NP-030475	N1-031708	approved	Corrections to the P-Access-Network-Info header (Part 1)	5.6.0	5.7.0	N1	IMS-CCR
24.228	125	1	Rel-5	F	NP-030475	N1-031709	approved	Corrections to the P-Access-Network-Info header (Part 2)	5.6.0	5.7.0	N1	IMS-CCR

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
24.229	485	1	Rel-5	F	NP-030476	N1-031358	approved	INVITE dialog amendments in profile	5.6.0	5.7.0	N1	IMS-CCR
24.229	487	1	Rel-6	F	NP-030482	N1-031627	approved	Registration amendments in profile	6.0.0	6.1.0	N1	IMS2
24.229	489	-	Rel-6	F	NP-030482	N1-031351	approved	Privacy considerations for the UE	6.0.0	6.1.0	N1	IMS2
24.229	493	-	Rel-6	A	NP-030476	N1-031359	approved	INVITE dialog amendments in profile	6.0.0	6.1.0	N1	IMS-CCR
24.229	494	-	Rel-6	F	NP-030482	N1-031375	approved	Correction of I-CSCF handling of multiple private user identities with same public user identity	6.0.0	6.1.0	N1	IMS2
24.229	495	1	Rel-5	F	NP-030476	N1-031631	approved	P-Asserted-Identity in SUBSCRIBE requests	5.6.0	5.7.0	N1	IMS-CCR
24.229	496	1	Rel-6	A	NP-030476	N1-031632	approved	P-Asserted-Identity in SUBSCRIBE requests	6.0.0	6.1.0	N1	IMS-CCR
24.229	497	-	Rel-6	F	NP-030482	N1-031378	approved	Addition of reference to Gq interface	6.0.0	6.1.0	N1	IMS2
24.229	502	2	Rel-5	F	NP-030476	N1-031719	approved	Update of HSS information at deregistration	5.6.0	5.7.0	N1	IMS-CCR
24.229	503	2	Rel-6	A	NP-030476	N1-031720	approved	Update of HSS information at deregistration	6.0.0	6.1.0	N1	IMS-CCR
24.229	507	-	Rel-6	F	NP-030482	N1-031392	approved	Unavailable definitions	6.0.0	6.1.0	N1	IMS2
24.229	508	-	Rel-5	F	NP-030476	N1-031393	approved	Reference corrections	5.6.0	5.7.0	N1	IMS-CCR
24.229	509	-	Rel-6	A	NP-030476	N1-031394	approved	Reference corrections	6.0.0	6.1.0	N1	IMS-CCR
24.229	510	1	Rel-6	F	NP-030484	N1-031682	approved	UICC related changes for IMS commonality and interoperability	6.0.0	6.1.0	N1	IMSCOOP
24.229	511	-	Rel-6	D	NP-030484	N1-031427	approved	Interoperability and commonality; definition of scope	6.0.0	6.1.0	N1	IMSCOOP
24.229	512	-	Rel-6	D	NP-030484	N1-031428	approved	Interoperability and commonality; addition of terminology	6.0.0	6.1.0	N1	IMSCOOP
24.229	513	-	Rel-6	D	NP-030484	N1-031429	approved	Interoperability and commonality; media grouping	6.0.0	6.1.0	N1	IMSCOOP
24.229	515	-	Rel-6	B	NP-030484	N1-031431	approved	Interoperability and commonality; charging information	6.0.0	6.1.0	N1	IMSCOOP
24.229	518	1	Rel-6	B	NP-030482	N1-031681	approved	Profile support of RFC 3326: The Reason Header Field for the Session Initiation Protocol	6.0.0	6.1.0	N1	IMS2
24.229	519	-	Rel-6	B	NP-030482	N1-031439	approved	Profile support of RFC 3581: An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing	6.0.0	6.1.0	N1	IMS2
24.229	522	1	Rel-6	D	NP-030484	N1-031684	approved	Clause 9 restructuring	6.0.0	6.1.0	N1	IMSCOOP
24.229	523	2	Rel-5	F	NP-030477	N1-031711	approved	Correct use of RAND during re-synchronisation failures	5.6.0	5.7.0	N1	IMS-CCR
24.229	524	2	Rel-6	A	NP-030477	N1-031712	approved	Correct use of RAND during re-synchronisation failures	6.0.0	6.1.0	N1	IMS-CCR
24.229	525	1	Rel-5	F	NP-030478	N1-031616	approved	Correction to description or RES/XRES usage	5.6.0	5.7.0	N1	IMS-CCR
24.229	526	1	Rel-6	A	NP-030478	N1-031617	approved	Correction to description or RES/XRES usage	6.0.0	6.1.0	N1	IMS-CCR
24.229	529		Rel-6	F	NP-030483	N1-031469	approved	Corrections on charging specification number	6.0.0	6.1.0	N1	IMS2
24.229	530	3	Rel-5	F	NP-030581	-	Approved	Corrections on ICID for REGISTER	5.6.0	5.7.0	N1	IMS-CCR

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
24.229	531	3	Rel-6	A	NP-030581	-	Approved	Corrections on ICID for REGISTER	6.0.0	6.1.0	N1	IMS-CCR
24.229	542	1	Rel-5	F	NP-030478	N1-031618	approved	Correction of user initiated re-registration	5.6.0	5.7.0	N1	IMS-CCR
24.229	543	1	Rel-6	A	NP-030478	N1-031619	approved	Correction of user initiated re-registration	6.0.0	6.1.0	N1	IMS-CCR
24.229	550	1	Rel-5	F	NP-030478	N1-031621	approved	IMS trust domain in Rel 5	5.6.0	5.7.0	N1	IMS-CCR
24.229	551	1	Rel-6	C	NP-030483	N1-031622	approved	IMS trust domain in Rel 6	6.0.0	6.1.0	N1	IMS2
24.229	555	1	Rel-5	F	NP-030478	N1-031623	approved	P-CSCF and UE handling of Security Associations	5.6.0	5.7.0	N1	IMS-CCR
24.229	556	1	Rel-6	A	NP-030478	N1-031624	approved	P-CSCF and UE handling of Security Associations	6.0.0	6.1.0	N1	IMS-CCR
24.229	560	2	Rel-6	B	NP-030483	N1-031727	approved	SDP offer handling in SIP responses in S-CSCF and P-CSCF	6.0.0	6.1.0	N1	IMS2
24.229	564	1	Rel-6	F	NP-030483	N1-031705	approved	SIP compression	6.0.0	6.1.0	N1	IMS2
24.229	565	-	Rel-5	F	NP-030478	N1-031579	approved	Sending challenge	5.6.0	5.7.0	N1	IMS-CCR
24.229	566	-	Rel-6	A	NP-030478	N1-031580	approved	Sending challenge	6.0.0	6.1.0	N1	IMS-CCR
24.229	567	2	Rel-5	F	NP-030480	N1-031715	approved	Reg-await-auth timer value	5.6.0	5.7.0	N1	IMS-CCR
24.229	568	2	Rel-6	A	NP-030480	N1-031716	approved	Reg-await-auth timer value	6.0.0	6.1.0	N1	IMS-CCR
24.229	570	1	Rel-5	F	NP-030480	N1-031706	approved	Network initiated deregistration	5.6.0	5.7.0	N1	IMS-CCR
24.229	571	1	Rel-6	A	NP-030480	N1-031707	approved	Network initiated deregistration	6.0.0	6.1.0	N1	IMS-CCR
24.229	572	-	Rel-6	D	NP-030483	N1-031589	approved	Text harmonisation with 3GPP2	6.0.0	6.1.0	N1	IMS2
24.229	573	1	Rel-6	B	NP-030483	N1-031680	approved	Procedures in the absence of UICC	6.0.0	6.1.0	N1	IMS2
24.229	575	1	Rel-6	D	NP-030483	N1-031683	approved	P-Access-Network-Info changes	6.0.0	6.1.0	N1	IMS2
44.065	012	1	Rel-6	F	NP-030486	N1-031652	approved	Disabling of ROHC segmentation	6.1.0	6.2.0	N1	TEI6
44.065	013	1	Rel-6	F	NP-030486	N1-031650	approved	XID negotiation for IP compression	6.1.0	6.2.0	N1	TEI6
44.068	004	-	Rel-6	C	NP-030486	N1-031546	approved	Clarification of the muting and unmuting of the downlink	5.0.1	6.0.0	N1	TEI6
24.229	530	2	Rel-5	F	NP-030479	N1-031640	revised	Corrections on ICID for REGISTER	5.6.0		N1	IMS-CCR
24.229	530	3	Rel-5	F	NP-030465	-	Withdrawn	Corrections on ICID for REGISTER	5.6.0		N1	IMS-CCR
24.229	531	2	Rel-6	A	NP-030479	N1-031641	revised	Corrections on ICID for REGISTER	6.0.0		N1	IMS-CCR
24.229	531	3	Rel-6	A	NP-030466	-	Withdrawn	Corrections on ICID for REGISTER	6.0.0		N1	IMS-CCR
23.078	553	3	Rel-6	B	NP-030526	N2-030569	approved	Collective CR for Release 6 Enhanced Dialed Services	5.5.1	6.0.0	N2	EDCAMEL
23.078	568	2	Rel-5	F	NP-030523	N2-030577	approved	CLIR/CLIP interaction with CSE initiated calls	5.5.1	5.6.0	N2	CAMEL4

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
23.078	613	1	Rel-5	F	NP-030523	N2-030497	approved	Handling AC Pending if ETC/ CTR fails	5.5.1	5.6.0	N2	CAMEL4
23.078	619	3	Rel-5	F	NP-030522	N2-030578	approved	CAMEL Leg Handling	5.5.1	5.6.0	N2	CAMEL4
23.078	624	1	Rel-5	F	NP-030522	N2-030554	approved	CAMEL DP Leg Handling	5.5.1	5.6.0	N2	CAMEL4
23.078	627	-	Rel-5	F	NP-030522	N2-030487	approved	Correction to MAP SRI between gsmSCF and HLR - Supported CAMEL Phases shall be Mandatory	5.5.1	5.6.0	N2	CAMEL4
23.078	628	1	Rel-5	F	NP-030522	N2-030556	approved	Removal of Int_Continue from process ICA_MSC	5.5.1	5.6.0	N2	CAMEL4
23.078	629	-	Rel-5	F	NP-030523	N2-030498	approved	Remove contents table for MNP Requested Info parameter	5.5.1	5.6.0	N2	CAMEL4
23.078	631	2	Rel-5	F	NP-030522	N2-030579	approved	Correction to MAP SRI between gsmSCF and HLR - HLR shall use TS11	5.5.1	5.6.0	N2	CAMEL4
23.078	633	1	Rel-5	F	NP-030523	N2-030563	approved	Reporting Basic Service at DP Answer for SCUDIF calls	5.5.1	5.6.0	N2	CAMEL4
23.078	634	1	Rel-5	F	NP-030523	N2-030547	approved	SDL handling of DisconnectFromIPForbidden handling in Assisting SSF case	5.5.1	5.6.0	N2	CAMEL4
23.078	636	1	Rel-5	F	NP-030522	N2-030557	approved	CAMEL User interaction at alerting and MidCall	5.5.1	5.6.0	N2	CAMEL4
23.078	641	-	Rel-5	F	NP-030524	N2-030539	approved	Using Suppress T-CSI in ICA for NP call legs	5.5.1	5.6.0	N2	CAMEL4
23.078	642	1	Rel-5	F	NP-030522	N2-030584	approved	Use of Continue With Argument for gsmSCF initiated calls	5.5.1	5.6.0	N2	CAMEL4
23.078	643	-	Rel-5	F	NP-030523	N2-030559	approved	Inclusion of DP O_Term_Seized in CAMEL Phase 4 Partial Implementation	5.5.1	5.6.0	N2	CAMEL4
23.078	644	-	Rel-5	F	NP-030522	N2-030576	approved	Correction to Disconnect Leg handling – gsmSSF shall send charging reports	5.5.1	5.6.0	N2	CAMEL4
23.078	645	1	Rel-6	B	NP-030528	N2-030587	approved	Change of position armed with criteria (check criteria in MSC)	5.5.1	6.0.0	N2	TEI_6
23.078	646	-	Rel-5	F	NP-030531	-	approved	Extension of QoS for HSDPA in GPRS CAMEL	5.5.1	5.6.0	N2	CAMEL4
23.078	647	1	Rel-6	B	NP-030528	N2-030561	approved	Enhancements for the Partial Implementation for "Change of position procedure armed with criteria"	5.5.1	6.0.0	N2	TEI_6
23.278	046	1	Rel-5	F	NP-030525	N2-030565	approved	Correction to the definition of interfaces for the IM-SSF	5.4.0	5.5.0	N2	IMS-CAMEL
29.078	332	1	Rel-6	B	NP-030527	N2-030570	approved	Collective CR for TS 29.078	5.5.0	6.0.0	N2	EDCAMEL
29.078	333	-	Rel-5	F	NP-030523	N2-030485	approved	Correction to flexible warning tone burst interval duration	5.5.0	5.6.0	N2	CAMEL4
29.078	335	-	Rel-5	F	NP-030522	N2-030494	approved	Correction to TCAP rules for gsmSCF initiated calls	5.5.0	5.6.0	N2	CAMEL4
29.078	336	1	Rel-5	F	NP-030523	N2-030564	approved	Reporting Basic Service at DP Answer for SCUDIF calls	5.5.0	5.6.0	N2	CAMEL4
29.078	337	1	Rel-5	F	NP-030522	N2-030555	approved	Correction to description of "valid CSI" in SCP initiated call	5.5.0	5.6.0	N2	CAMEL4
29.078	338	2	Rel-5	F	NP-030523	N2-030583	approved	More call related CAPv4 extensions for future releases	5.5.0	5.6.0	N2	CAMEL4
29.078	342	1	Rel-5	F	NP-030523	N2-030562	approved	Handling of DisconnectFromIPForbidden handling in Assisting SSF case	5.5.0	5.6.0	N2	CAMEL4
29.078	343	1	Rel-6	B	NP-030528	N2-030585	approved	Change of position armed with criteria	5.5.0	6.0.0	N2	TEI_6

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
29.078	344	-	Rel-5	F	NP-030532	-	approved	Extension of QoS for HSDPA in GPRS CAMEL	5.5.0	5.6.0	N2	CAMEL4
23.078	637	3	Rel-5	F	NP-030530	N2-030567	rejected	Extension of QoS for HSDPA in GPRS CAMEL	5.5.1		N2	CAMEL4
29.078	340	3	Rel-5	F	NP-030530	N2-030568	rejected	Extension of QoS for HSDPA in GPRS CAMEL	5.5.0		N2	CAMEL4
23.172	019	1	Rel-5	F	NP-030564	N3-030771	approved	Corrections on HLR interrogation	5.2.0	5.3.0	N3	SCUDIF
23.172	021	1	Rel-5	F	NP-030564	N3-030766	approved	CAMEL interactions with SCUDIF calls	5.2.0	5.3.0	N3	SCUDIF
24.022	013	1	Rel-5	F	NP-030566	N3-030805	approved	Terminology clarification	5.4.0	5.5.0	N3	TEI
27.001	104	1	R99	F	NP-030562	N3-030799	approved	Incomplete tree diagrams	3.13.0	3.14.0	N3	CS Data
27.060	088	-	Rel-5	F	NP-030563	N3-030701	approved	Updated reference for DHCPv6	5.5.0	5.6.0	N3	GPRS
29.007	089	4	Rel-5	F	NP-030455	N3-030821	approved	Backward signalling of service information between VMSC and GMSC for MTC	5.7.0	5.8.0	N3	Circuit switched Bearer Services
29.007	094	-	Rel-4	A	NP-030539	N3-030837	approved	Backward signalling of service information between VMSC and GMSC for MTC	4.9.0	4.10.0	N3	Circuit switched Bearer Services
29.007	095	-	R99	A	NP-030538	N3-030838	approved	Backward signalling of service information between VMSC and GMSC for MTC	3.13.0	3.14.0	N3	Circuit switched Bearer Services
29.061	094	2	Rel-5	F	NP-030567	N3-030776	approved	Disconnect Request for Multiple PDP Sessions belonging to a single User	5.7.0	5.8.0	N3	TEI
29.061	095	1	Rel-5	F	NP-030567	N3-030777	approved	Unique IPv6 address for a PDP context	5.7.0	5.8.0	N3	TEI
29.061	096	1	R99	F	NP-030563	N3-030767	approved	Updated reference for DHCPv6	3.13.0	3.14.0	N3	GPRS
29.061	097	1	Rel-4	A	NP-030563	N3-030768	approved	Updated reference for DHCPv6	4.8.0	4.9.0	N3	GPRS
29.061	098	1	Rel-5	A	NP-030563	N3-030769	approved	Updated reference for DHCPv6	5.7.0	5.8.0	N3	GPRS
29.061	099	1	Rel-5	F	NP-030568	N3-030774	approved	HSDPA impacts to Radius	5.7.0	5.8.0	N3	HSDPA
29.163	001	1	Rel-6	F	NP-030569	N3-030778	approved	Use of response code 500 instead of 503	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	002	1	Rel-6	F	NP-030569	N3-030788	approved	Autonomous Release at I-MGCF on T7 expiry	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	003	1	Rel-6	F	NP-030569	N3-030779	approved	Clarification of 487 mapping to 127	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	004	2	Rel-6	F	NP-030569	N3-030812	approved	Table 12 modifications	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	008	-	Rel-6	F	NP-030569	N3-030692	approved	Correction of clause titles	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	009	1	Rel-6	F	NP-030570	N3-030790	approved	Failure handling in MGCF	6.0.0	6.1.0	N3	IMS-CCR-Mn
29.163	010	1	Rel-6	F	NP-030569	N3-030782	approved	Interworking of user plane	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	011	2	Rel-6	F	NP-030569	N3-030823	approved	Alignment between subclause 7.2.3 and 7.3.3 in TS 29.163	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	012	5	Rel-6	F	NP-030570	N3-030829	approved	Corrections to clause 9 of TS 29.163	6.0.0	6.1.0	N3	IMS-CCR-Mn

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
29.163	013	1	Rel-6	F	NP-030569	N3-030781	approved	Criterion to start Timer Tiw2	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	014	2	Rel-6	F	NP-030570	N3-030831	approved	IM-MGW initiated release	6.0.0	6.1.0	N3	IMS-CCR-Mn
29.163	015	1	Rel-6	F	NP-030569	N3-030787	approved	Alignment of TS 29.163 with the ITU-T recommendation Q.1912.5	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	016	1	Rel-6	F	NP-030570	N3-030793	approved	Corrections to table 29 and 30 of TS 29.163	6.0.0	6.1.0	N3	IMS-CCR-Mn
29.163	018	1	Rel-6	F	NP-030569	N3-030784	approved	Mapping of unknown cause code values	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	021	2	Rel-6	F	NP-030569	N3-030813	approved	Addition of References	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	022	3	Rel-6	F	NP-030569	N3-030814	approved	Handling of closed used group supplementary service	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.163	023	2	Rel-6	F	NP-030570	N3-030817	approved	Corrections on Section 9.2.8 Handling of RTP telephony events	6.0.0	6.1.0	N3	IMS-CCR-Mn
29.163	024	-	Rel-6	D	NP-030570	N3-030741	approved	Wrong Mn Procedure in Figure 36	6.0.0	6.1.0	N3	IMS-CCR-Mn
29.163	025	1	Rel-6	B	NP-030569	N3-030815	approved	Interworking of Hold/Resume from the CS Network	6.0.0	6.1.0	N3	IMS-CCR-IWCS
29.207	111	1	Rel-5	F	NP-030565	N3-030770	approved	Source addresses in packet classifiers	5.5.1	5.6.0	N3	E2EQoS
29.208	048	-	Rel-5	F	NP-030568	N3-030694	approved	HSDPA impacts to Go interface	5.5.1	5.6.0	N3	HSDPA
29.208	050	2	Rel-5	F	NP-030565	N3-030810	approved	Approval of the QoS Commit as a part of the authorization decision for early media	5.5.1	5.6.0	N3	E2EQoS
29.208	051	2	Rel-5	F	NP-030565	N3-030809	approved	Session modification without adding or removing media lines	5.5.1	5.6.0	N3	E2EQoS
03.18	A070	2	R97	F	NP-030579	N4-031290	approved	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	6.7.0	6.8.0	N4	Camel2
03.18	A071	1	R98	A	NP-030579	N4-031130	approved	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	7.4.0	7.5.0	N4	Camel2
23.003	075	-	R99	F	NP-030499	N4-031183	approved	On the length of the APN NI	3.13.0	3.14.0	N4	TEI
23.003	076	-	Rel-4	A	NP-030499	N4-031184	approved	On the length of the APN NI	4.7.0	4.8.0	N4	TEI
23.003	077	-	Rel-5	A	NP-030499	N4-031185	approved	On the length of the APN NI	5.7.0	5.8.0	N4	TEI
23.003	078	-	Rel-6	A	NP-030499	N4-031186	approved	On the length of the APN NI	6.0.0	6.1.0	N4	TEI
23.003	080	-	Rel-5	F	NP-030504	N4-031348	approved	Changes and corrections to DNS names	5.7.0	5.8.0	N4	TEI5
23.003	081	-	Rel-6	A	NP-030504	N4-031349	approved	Changes and corrections to DNS names	6.0.0	6.1.0	N4	TEI5
23.003	082	2	Rel-5	F	NP-030577	-	approved	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	5.7.0	5.8.0	N4	TEI_5
23.003	083	2	Rel-6	A	NP-030578	-	approved	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	6.0.0	6.1.0	N4	TEI_5
23.007	009	-	R99	F	NP-030497	N4-031323	approved	Restoration of data in RA update	3.5.0	3.6.0	N4	GPRS
23.007	010	-	Rel-4	A	NP-030497	N4-031324	approved	Restoration of data in RA update	4.1.1	4.2.0	N4	GPRS

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
23.007	011	-	Rel-5	A	NP-030497	N4-031325	approved	Restoration of data in RA update	5.0.0	5.1.0	N4	GPRS
23.008	126	-	Rel-5	F	NP-030502	N4-031232	approved	Registration status	5.6.0	5.7.0	N4	IMS
23.008	127	4	Rel-6	F	NP-030517	N4-031390	approved	Services related to unregistered state	5.6.0	6.0.0	N4	TEI6
23.008	128	1	Rel-5	F	NP-030502	N4-031380	approved	Correct table of IMS elements	5.6.0	5.7.0	N4	TEI5
23.018	126	1	Rel-6	B	NP-030515	N4-031133	approved	Collective CR for Rel-6 Enhanced Dialed Services	6.0.0	6.1.0	N4	EDCamel
23.066	027	-	Rel-5	F	NP-030509	N4-031092	approved	Incorrect implementation of CR 023r1	5.2.0	5.3.0	N4	MNP
23.066	028	1	Rel-5	F	NP-030509	N4-031340	approved	MNP correction for prepaid charging	5.2.0	5.3.0	N4	MNP
23.079	027	-	Rel-5	F	NP-030503	N4-031306	approved	Correction to MAP RCH – GMSC shall check Offered CAMEL4 CSIs	5.3.0	5.4.0	N4	CAMEL4
23.094	003	1	Rel-6	B	NP-030517	N4-031303	approved	Notify of forced erasure to previously registered subscriber of his deregistration	5.0.1	6.0.0	N4	TEI6
24.030	014	1	Rel-6	B	NP-030514	N4-031299	approved	Deferred MT-LR Area Event	5.1.0	6.0.0	N4	LCS2
24.080	031	2	Rel-6	B	NP-030514	N4-031345	approved	Deferred MT-LR Area Event	5.4.0	6.0.0	N4	LCS2
29.002	648	2	Rel-6	D	NP-030516	N4-031274	approved	Message Segmentation Mechanisms	6.3.0	6.4.0	N4	TEI6
29.002	675	2	Rel-5	F	NP-030509	N4-031341	approved	MNP correction for prepaid charging	5.7.0	5.8.0	N4	MNP
29.002	676	2	Rel-6	A	NP-030509	N4-031342	approved	MNP correction for prepaid charging	6.3.0	6.4.0	N4	MNP
29.002	677	-	Rel-6	B	NP-030516	N4-031098	approved	Enhancements for the Partial Implementation for "Change of position procedure armed with criteria"	6.3.0	6.4.0	N4	TEI6
29.002	679	-	Rel-6	F	NP-030514	N4-031108	approved	Modification of description for conditions on inclusion of Positioning Data	6.3.0	6.4.0	N4	LCS2
29.002	680	2	Rel-6	F	NP-030514	N4-031372	approved	Addition of CGI to LCS procedures	6.3.0	6.4.0	N4	LCS2
29.002	685	-	Rel-5	F	NP-030503	N4-031131	approved	More spare bits for CAMEL4 enhancements	5.7.0	5.8.0	N4	CAMEL4
29.002	686	-	Rel-6	A	NP-030503	N4-031132	approved	More spare bits for CAMEL4 enhancements	6.3.0	6.4.0	N4	CAMEL4
29.002	687	-	Rel-6	B	NP-030515	N4-031135	approved	Collective CR for Rel-6 Enhanced Dialed Services	6.3.0	6.4.0	N4	EDCamel
29.002	688	2	Rel-5	F	NP-030508	N4-031316	approved	HSDPA impacts to MAP	5.7.0	5.8.0	N4	HSDPA
29.002	689	2	Rel-6	A	NP-030508	N4-031317	approved	HSDPA impacts to MAP	6.3.0	6.4.0	N4	HSDPA
29.002	691	-	Rel-5	F	NP-030503	N4-031162	approved	Clarification on D-CSI segmentation	5.7.0	5.8.0	N4	CAMEL4
29.002	692	-	Rel-6	A	NP-030503	N4-031163	approved	Clarification on D-CSI segmentation	6.3.0	6.4.0	N4	CAMEL4
29.002	694	1	Rel-5	F	NP-030507	N4-031337	approved	Remove redundant option for retrieval of routing information in figure 21.2.3	5.7.0	5.8.0	N4	TEI5
29.002	695	1	Rel-6	A	NP-030507	N4-031338	approved	Remove redundant option for retrieval of routing information in figure 21.2.3	6.3.0	6.4.0	N4	TEI5

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
29.002	696	2	Rel-6	F	NP-030514	N4-031373	approved	Include v-gmlc parameter in RESTORE DATA MAP message	6.3.0	6.4.0	N4	LCS2
29.002	702	2	Rel-6	B	NP-030514	N4-031365	approved	Deferred MT-LR Area Event	6.3.0	6.4.0	N4	LCS2
29.002	703	-	Rel-6	B	NP-030516	N4-031315	approved	Addition of requestingPLMN-ID to Send Authentication Info Request	6.3.0	6.4.0	N4	TEI6
29.002	704	-	Rel-6	B	NP-030533	NP-030533	approved	EXPORT data types to CAP (Change of position armed with criteria)	6.3.0	6.4.0	N4	TEI_6
29.010	093	-	Rel-4	F	NP-030498	N4-031164	approved	Wrong message appears in message flow	4.6.0	4.7.0	N4	LCS1
29.010	094	-	Rel-5	A	NP-030498	N4-031165	approved	Wrong message appears in message flow	5.4.0	5.5.0	N4	LCS1
29.010	095	-	Rel-6	A	NP-030498	N4-031166	approved	Wrong message appears in message flow	6.0.0	6.1.0	N4	LCS1
29.060	435	1	R99	F	NP-030497	N4-031099	approved	Correction to imprecise reference	3.17.0	3.18.0	N4	TEI
29.060	456	-	Rel-5	F	NP-030519	N4-031118	approved	Removal of RAB Context IE in Forward Relocation Request	5.7.0	5.8.0	N4	GTP Enhancements
29.060	457	-	Rel-6	A	NP-030519	N4-031119	approved	Removal of RAB Context IE in Forward Relocation Request	6.2.0	6.3.0	N4	GTP Enhancements
29.060	458	-	R99	F	NP-030497	N4-031220	approved	Correction of Sequence Number Up handling	3.17.0	3.18.0	N4	GPRS
29.060	459	-	Rel-4	A	NP-030497	N4-031221	approved	Correction of Sequence Number Up handling	4.9.0	4.10.0	N4	GPRS
29.060	460	-	Rel-5	A	NP-030497	N4-031222	approved	Correction of Sequence Number Up handling	5.7.0	5.8.0	N4	GPRS
29.060	461	-	Rel-6	A	NP-030497	N4-031223	approved	Correction of Sequence Number Up handling	6.2.0	6.3.0	N4	GPRS
29.060	462	2	Rel-5	F	NP-030508	N4-031374	approved	HSDPA impacts to GTP	5.7.0	5.8.0	N4	HSDPA
29.060	463	2	Rel-6	A	NP-030508	N4-031375	approved	HSDPA impacts to GTP	6.2.0	6.3.0	N4	HSDPA
29.060	466	-	Rel-6	F	NP-030517	N4-031155	approved	Correction of a mis implementation of CR 29.060 410	6.2.0	6.3.0	N4	TEI6
29.060	469	2	Rel-6	B	NP-030512	N4-031313	approved	Introducing MBMS	6.2.0	6.3.0	N4	MBMS
29.060	475	-	Rel-4	F	NP-030497	N4-031100	approved	Correction of incorrect reference to a withdrawn specification	4.9.0	4.10.0	N4	TEI
29.060	476	-	Rel-5	A	NP-030497	N4-031322	approved	Correction of incorrect reference to a withdrawn specification	5.7.0	5.8.0	N4	TEI
29.060	477	-	Rel-6	A	NP-030497	N4-031102	approved	Correction of incorrect reference to a withdrawn specification	6.2.0	6.3.0	N4	TEI
29.228	054	3	Rel-5	F	NP-030500	N4-031280	approved	The S-CSCF name needs to be checked always in MAR	5.5.0	5.6.0	N4	IMS-CCR
29.228	056	3	Rel-5	F	NP-030585	-	approved	Conditions for inclusion of Charging Information	5.5.0	5.6.0	N4	IMS-CCR
29.228	057	3	Rel-6	A	NP-030585	-	approved	Conditions for inclusion of Charging Information	6.0.0	6.1.0	N4	IMS-CCR
29.228	059	1	Rel-5	F	NP-030500	N4-031310	approved	MAR in synchronisation failure case	5.5.0	5.6.0	N4	IMS-CCR
29.228	060	1	Rel-6	A	NP-030500	N4-031311	approved	MAR in synchronisation failure case	6.0.0	6.1.0	N4	IMS-CCR
29.228	061	1	Rel-6	A	NP-030500	N4-031281	approved	The S-CSCF name needs to be checked always in MAR	6.0.0	6.1.0	N4	IMS-CCR

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29.228	062	-	Rel-5	F	NP-030500	N4-031222	approved	Conditional AVPs in answer commands	5.5.0	5.6.0	N4	IMS-CCR
29.228	063	-	Rel-6	A	NP-030500	N4-031223	approved	Conditional AVPs in answer commands	6.0.0	6.1.0	N4	IMS-CCR
29.228	064	1	Rel-5	F	NP-030500	N4-031283	approved	Server-Assignment-Request	5.5.0	5.6.0	N4	IMS-CCR
29.228	065	1	Rel-6	A	NP-030500	N4-031284	approved	Server-Assignment-Request	6.0.0	6.1.0	N4	IMS-CCR
29.228	066	-	Rel-5	F	NP-030500	N4-031237	approved	Determination of User-Authorization-Type AVP based on registration expiration	5.5.0	5.6.0	N4	IMS-CCR
29.228	067	-	Rel-6	A	NP-030500	N4-031238	approved	Determination of User-Authorization-Type AVP based on registration expiration	6.0.0	6.1.0	N4	IMS-CCR
29.228	068	2	Rel-5	F	NP-030500	N4-031304	approved	Not registered state after deregistration with S-CSCF deleted at the HSS	5.5.0	5.6.0	N4	IMS-CCR
29.228	069	2	Rel-6	A	NP-030500	N4-031305	approved	Not registered state after deregistration with S-CSCF deleted at the HSS	6.0.0	6.1.0	N4	IMS-CCR
29.228	070	-	Rel-5	F	NP-030500	N4-031357	approved	The extensibility of the XML schema	5.5.0	5.6.0	N4	IMS-CCR
29.228	071	-	Rel-6	A	NP-030500	N4-031358	approved	The extensibility of the XML schema	6.0.0	6.1.0	N4	IMS-CCR
29.229	021	1	Rel-5	F	NP-030500	N4-031220	approved	The S-CSCF name needs to be checked always in MAR and SAR	5.5.0	5.6.0	N4	IMS-CCR
29.229	027	-	Rel-5	F	NP-030500	N4-031241	approved	User-Authorization-Type	5.5.0	5.6.0	N4	IMS-CCR
29.229	029	-	Rel-5	F	NP-030518	N4-031378	approved	Clarification of inclusion of elements in Charging Information	5.5.0	5.6.0	N4	IMS-CCR
29.328	026	3	Rel-6	B	NP-030510	N4-031336	approved	Introduction of Presence Stage 3 (Ph) to the Sh interface	5.5.0	6.0.0	N4	PRESNC
29.328	038	-	Rel-5	F	NP-030501	N4-031097	approved	XML Schema Correction	5.5.0	5.6.0	N4	IMS-CCR
29.328	041	-	Rel-5	F	NP-030501	N4-031356	approved	The extensibility of the XML schema	5.5.0	5.6.0	N4	IMS-CCR
29.328	042	-	Rel-5	F	NP-030518	N4-031379	approved	Clarification of inclusion of elements in Charging Information	5.5.0	5.6.0	N4	IMS-CCR
03.18	A070	1	R97	F	NP-030496	N4-031290	revised	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	6.7.0		N4	Camel2
03.18	A071	-	R98	A	NP-030496	N4-031130	revised	MAP and CAP 3G SAI mapping to 2G CellIDorLAI Location Information parameter	7.4.0		N4	Camel2
23.003	074	4	Rel-5	F	NP-030505	N4-031346	rejected	Changes to enable the GSMA root DNS architecture	5.7.0		N4	TEI5
23.003	079	1	Rel-6	A	NP-030505	N4-031347	rejected	Changes to enable the GSMA root DNS architecture	6.0.0		N4	TEI5
23.003	082	-	Rel-5	F	NP-030506	N4-031360	revised	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	5.7.0		N4	TEI5
23.003	082	1	Rel-5	F	NP-030574	-	revised	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	5.7.0		N4	TEI_5
23.003	083	-	Rel-6	A	NP-030506	N4-031361	revised	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	6.0.0		N4	TEI5
23.003	083	1	Rel-6	A	NP-030575	-	revised	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	6.0.0		N4	TEI_5
29.228	056	2	Rel-5	F	NP-030518	N4-031376	revised	Conditions for inclusion of Charging Information	5.5.0		N4	IMS-CCR

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29.228	057	2	Rel-6	A	NP-030518	N4-031377	revised	Conditions for inclusion of Charging Information	6.0.0		N4	IMS-CCR
29.198-01	025	-	Rel-5	F	NP-030547	N5-030547	approved	Add Java Realization rules to solve MPCC name conflicts	5.3.0	5.4.0	N5	OSA2
29.198-01	026	-	Rel-5	F	NP-030547	N5-030634	approved	Correction to Java Realisation Rulebook	5.3.0	5.4.0	N5	OSA2
29.198-01	027	-	Rel-6	B	NP-030553	N5-030403	approved	Add OSA API support for 3GPP2 networks	5.3.0	6.0.0	N5	OSA3
29.198-02	037	1	Rel-4	F	NP-030580	-	approved	Description correction of TpOctetSet	4.6.0	4.7.0	N5	OSA1
29.198-02	038	1	Rel-5	A	NP-030580	-	approved	Description correction of TpOctetSet	5.4.0	5.5.0	N5	OSA1
29.198-02	039	-	Rel-4	F	NP-030543	N5-030622	approved	Clarify use of base interface Reference within an inheritance relationship	4.6.0	4.7.0	N5	OSA1
29.198-02	040	-	Rel-5	A	NP-030543	N5-030623	approved	Clarify use of base interface Reference within an inheritance relationship	5.4.0	5.5.0	N5	OSA1
29.198-02	041	-	Rel-6	B	NP-030553	N5-030404	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-02	042	-	Rel-5	F	NP-030548	N5-030643	approved	Correction of datatypes supported by TpAttribute	5.4.0	5.5.0	N5	OSA2
29.198-03	086	-	Rel-5	F	NP-030549	N5-030549	approved	Correction of the sequence diagram for Fault Management	5.4.0	5.5.0	N5	OSA2
29.198-03	087	-	Rel-5	F	NP-030549	N5-030572	approved	Correction of State Transition Diagram for IpAccess	5.4.0	5.5.0	N5	OSA2
29.198-03	088	-	Rel-5	F	NP-030549	N5-030575	approved	Correction of Correlation Behaviour in Load Management	5.4.0	5.5.0	N5	OSA2
29.198-03	089	-	Rel-5	F	NP-030549	N5-030632	approved	Correction of Correlation Behaviour in Fault Management	5.4.0	5.5.0	N5	OSA2
29.198-03	090	-	Rel-5	F	NP-030549	N5-030633	approved	Correction and Clarification of Framework Access Session Behaviour	5.4.0	5.5.0	N5	OSA2
29.198-03	091	-	Rel-6	B	NP-030553	N5-030405	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-03	092	-	Rel-6	B	NP-030554	N5-030389	approved	Add description for service super and sub types	5.4.0	6.0.0	N5	OSA3
29.198-03	093	-	Rel-6	B	NP-030554	N5-030390	approved	Add support for registration of additional service property types and modes	5.4.0	6.0.0	N5	OSA3
29.198-03	094	-	Rel-6	B	NP-030554	N5-030410	approved	Improve User Interaction message management functions	5.4.0	6.0.0	N5	OSA3
29.198-03	095	-	Rel-6	B	NP-030554	N5-030430	approved	Add new values for TpServiceTypeName for Policy Management	5.4.0	6.0.0	N5	OSA3
29.198-03	096	-	Rel-6	B	NP-030554	N5-030431	approved	Allow for applications to re-obtain the reference to the service manager	5.4.0	6.0.0	N5	OSA3
29.198-03	097	-	Rel-6	B	NP-030554	N5-030322	approved	Add support in OSA to inform applications about new SCSs and their level of Backward compatibility – Align with SA1's 22.127	5.4.0	6.0.0	N5	OSA3
29.198-03	098	-	Rel-6	B	NP-030554	N5-030433	approved	Add "Extended User Status" as service type name - Align with 29.198-06	5.4.0	6.0.0	N5	OSA3
29.198-03	099	-	Rel-6	B	NP-030554	N5-030579	approved	Add P_USER_BINDING to TpServiceTypeName	5.4.0	6.0.0	N5	OSA3
29.198-03	100	-	Rel-6	C	NP-030554	N5-030631	approved	Modify Framework Availability Indication in Fault Management	5.4.0	6.0.0	N5	OSA3
29.198-04	066	-	Rel-4	F	NP-030544	N5-030345	approved	Correction of description in superviseRes and superviseCallRes	4.7.0	4.8.0	N5	OSA1

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29.198-04-1	008	-	Rel-6	B	NP-030553	N5-030526	approved	Add OSA API support for 3GPP2 networks	6.0.0	6.1.0	N5	OSA3
29.198-04-2	009	-	Rel-5	A	NP-030544	N5-030348	approved	Correction of description in superviseCallRes	5.4.0	5.5.0	N5	OSA1
29.198-04-2	010	-	Rel-6	B	NP-030553	N5-030527	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-04-3	015	-	Rel-5	A	NP-030544	N5-030349	approved	Correction of description in superviseRes	5.4.0	5.5.0	N5	OSA1
29.198-04-3	016	-	Rel-5	F	NP-030550	N5-030566	approved	Correction of description of TpNotificationRequestedSetEntry	5.4.0	5.5.0	N5	OSA2
29.198-04-3	017	-	Rel-6	A	NP-030550	N5-030567	approved	Correction of description of TpNotificationRequestedSetEntry	6.0.0	6.1.0	N5	OSA2
29.198-04-3	019	-	Rel-6	B	NP-030553	N5-030528	approved	Add OSA API support for 3GPP2 networks	6.0.0	6.1.0	N5	OSA3
29.198-04-4	010	-	Rel-5	A	NP-030544	N5-030350	approved	Correction of description in superviseVolumeRes	5.4.0	5.5.0	N5	OSA1
29.198-04-4	011	-	Rel-5	F	NP-030551	N5-030351	approved	Correction of method references in MMCC	5.4.0	5.5.0	N5	OSA2
29.198-04-4	012	-	Rel-5	F	NP-030551	N5-030361	approved	Include full set of 3GPP codecs in TpAudioCapabilitiesType and TpVideoCapabilitiesType	5.4.0	5.5.0	N5	OSA2
29.198-04-4	013	-	Rel-6	A	NP-030551	N5-030362	approved	Include full set of 3GPP codecs in TpAudioCapabilitiesType and TpVideoCapabilitiesType	6.0.0	6.1.0	N5	OSA2
29.198-04-4	014	-	Rel-6	B	NP-030553	N5-030529	approved	Add OSA API support for 3GPP2 networks	6.0.0	6.1.0	N5	OSA3
29.198-05	040	-	Rel-4	F	NP-030545	N5-030396	approved	Correction to UI service responseRequested logic	4.7.0	4.8.0	N5	OSA1
29.198-05	041	-	Rel-5	A	NP-030545	N5-030397	approved	Correction to UI service responseRequested logic	5.4.0	5.5.0	N5	OSA1
29.198-05	042	-	Rel-6	B	NP-030553	N5-030530	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-05	043	-	Rel-6	B	NP-030554	N5-030409	approved	Improve User Interaction message management functions	5.4.0	6.0.0	N5	OSA3
29.198-05	044	-	Rel-6	B	NP-030555	N5-030411	approved	Add speech recognition/synthesis capability to the Generic User Interaction	5.4.0	6.0.0	N5	OSA3
29.198-06	024	-	Rel-6	B	NP-030553	N5-030531	approved	Add OSA API support for 3GPP2 networks	6.0.0	6.1.0	N5	OSA3
29.198-07	015	-	Rel-6	B	NP-030553	N5-030532	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-08	027	-	Rel-6	B	NP-030553	N5-030533	approved	Add OSA API support for 3GPP2 networks	5.4.0	6.0.0	N5	OSA3
29.198-11	021	-	Rel-6	B	NP-030556	N5-030336	approved	Add methods for balanceUpdate(), voucherUpdate() and getCreditExpiryDate() to OSA Account Management	5.3.0	6.0.0	N5	OSA3
29.198-11	022	-	Rel-6	B	NP-030553	N5-030534	approved	Add OSA API support for 3GPP2 networks	5.3.0	6.0.0	N5	OSA3
29.198-12	023	-	Rel-4	F	NP-030546	N5-030394	approved	Correcting charging State Transition when reservation closed	4.4.0	4.5.0	N5	OSA1
29.198-12	024	-	Rel-5	A	NP-030546	N5-030395	approved	Correcting charging State Transition when reservation closed	5.3.0	5.4.0	N5	OSA1
29.198-12	025	-	Rel-6	B	NP-030553	N5-030535	approved	Add OSA API support for 3GPP2 networks	5.3.0	6.0.0	N5	OSA3
29.198-13	005	-	Rel-6	B	NP-030553	N5-030536	approved	Add OSA API support for 3GPP2 networks	6.0.0	6.1.0	N5	OSA3

Spec	CR	Rev	Phase	Cat	Plenary doc	WG doc	TSG status	Subject	O_ver	N_Ver	WG	Workitem
29.198-13	006	-	Rel-5	F	NP-030548	N5-030648	approved	Correction of standard datatypes supported by TpPolicy - Align with 29.198-02	5.2.0	5.3.0	N5	OSA2
29.198-13	007	-	Rel-6	A	NP-030548	N5-030647	approved	Correction of standard datatypes supported by TpPolicy - Align with 29.198-02	6.0.0	6.1.0	N5	OSA2
29.198-14	014	-	Rel-6	B	NP-030553	N5-030537	approved	Add OSA API support for 3GPP2 networks	5.3.0	6.0.0	N5	OSA3
29.198-14	015	-	Rel-6	B	NP-030557	N5-030628	approved	Include Provisioning SCF in Presence Service - Align with SA1's 22.141	5.3.0	6.0.0	N5	OSA3
29.198-14	016	-	Rel-6	B	NP-030557	N5-030629	approved	Add methods to activate/deactivate PAM services for users - Align with SA1's 22.141	5.3.0	6.0.0	N5	OSA3
29.198-14	017	-	Rel-5	F	NP-030548	N5-030645	approved	Correction of description of TpAttributeType to adequately support possible types - Align with 29.198-02	5.3.0	5.4.0	N5	OSA2
29.198-14	018	-	Rel-5	F	NP-030548	N5-030646	approved	Correction of definitin of TpPAMAttribute and addition of Service Properties to publish supported attribute types - Align with 29.198-02	5.3.0	5.4.0	N5	OSA2
29.998-04-4	001	-	Rel-6	B	NP-030553	N5-030538	approved	Add OSA API support for 3GPP2 networks in ISC Mapping	5.0.0	6.0.0	N5	OSA3
29.198-02	037	-	Rel-4	F	NP-030543	N5-030620	revised	Description correction of TpOctetSet	4.6.0		N5	OSA1
29.198-02	038	-	Rel-5	A	NP-030543	N5-030621	revised	Description correction of TpOctetSet	5.4.0		N5	OSA1

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

ANNEX B Tdoc List with Status

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030446	2	AGENDA	DRAFT Agenda for CN#22 Meeting			CN Chair		APPROVED
NP-030447	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #22: beginning of day 1			CN vice-chairman		NOTED
NP-030448	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #22: end of day 1			CN vice-chairman		NOTED
NP-030449	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #22: end of day 2			CN vice-chairman		NOTED
NP-030450	2	DAD	Proposed allocation of documents to agenda items for TSG-CN Plenary Meeting #22: end of day 3			CN vice-chairman		WITHDRAWN
NP-030451	4.1	REPORT	Draft Meeting Report from CN#21			MCC		APPROVED
NP-030452	12	WORK PLAN	Latest version of 3GPP Workplan			Sultan, MCC		REVISED TO 0582
NP-030453	12	WORK PLAN	Latest version of 3GPP Workplan (SLIDES)			Sultan, MCC		NOTED
NP-030454	5.3	LS IN	Reply LS (to NP-030440) on DNS domains used in 3GPP [Doc 098_03]	IMS	Rel-5	GSMA IREG – PACKET working		NOTED
NP-030455	5.1	LS IN	LS on Inter-network accounting for BS30 based services such as video telephony [N3-030828]			CN3		NOTED
NP-030456	5.1	LS IN	LS on DNS top level domains [N4-031367]	IMS	Rel-5	CN4		NOTED
NP-030457	5.1	LS IN	Request for clarification on the scope of the Ut interface towards the OSA-SCS [N5-030665]	OSA3	Rel-6	CN5		NOTED
NP-030458	5.2	LS IN	LS Reply on charging aspects of Priority Service (draft TR 22.952 [S5-034642])	PRIOR	Rel-6	SA5		NOTED
NP-030459	5.3	LS IN	Liaison Statement reply to 3GPP SA2 on Comments on ETSI SR 002 180 V0.3.2 [EM05td018r1]			OCG EMTEL		NOTED
NP-030460	5.2	LS IN	LS on SA2 updates of the Work Plan [S2-034367]	-	Rel-6	SA2		NOTED
NP-030461	5.2	LS IN	Reply LS to CN5 on Request for clarification on the scope of the Ut interface towards the OSA-SCS [S2-034363]		Rel-6	SA2		NOTED
NP-030462	12	REPORT	Draft Summary of R99 Content		R99	Sultan, MCC		NOTED
NP-030463	4.3	REPORT	IETF Status report			CN Chair		NOTED
NP-030464	6.6	REPORT	ITU-T Ad-Hoc Status report			CN Chair		NOTED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030465	8.1	CR	Corrections on ICID for REGISTER	IMS-CCR	Rel-5	NEC	24.229	WITHDRAWN
NP-030466	8.1	CR	Corrections on ICID for REGISTER	IMS-CCR	Rel-6	NEC	24.229	WITHDRAWN
NP-030467	4.4	LIST	3GPP Dependencies on OMA Deliverables			Nortel Networks		NOTED
NP-030468	11	LIST	Rel-5 Specs not yet upgraded to Rel-6			MCC, JMM		NOTED
NP-030469	11	LIST	status list before meeting			MCC, JMM		NOTED
NP-030470	6.1.1	REPORT	Status Report for TSG CN WG1			CN1 Chair		NOTED
NP-030471	6.1.1	REPORT	CN1#32 Meeting Report			MCC		NOTED
NP-030472	6.1.1	LS PACK	All LSs sent from CN1 since TSG CN#21 Meeting			MCC		NOTED
NP-030473	7.6	CR PACK	CR to Rel-4 (with mirror CR) on Work Item GSM/UMTS interworking towards 23.009	GSM/UMTS interworking	Rel-4	CN1		APPROVED
NP-030474	7.11	CR PACK	CR to R98 on Work Item TEI towards 04.08	TEI	R98	CN1		APPROVED
NP-030475	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 23.218 and 24.228	IMS-CCR	Rel-5	CN1		APPROVED
NP-030476	8.1	CR PACK	CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 1	IMS-CCR	Rel-5	CN1		APPROVED
NP-030477	8.1	CR PACK	CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 2	IMS-CCR	Rel-5	CN1		CONDITIONALLY APPROVED [SA3 CR]
NP-030478	8.1	CR PACK	CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 3	IMS-CCR	Rel-5	CN1		APPROVED
NP-030479	8.1	CR PACK	CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 4	IMS-CCR	Rel-5	CN1		REVISED TO 0581
NP-030480	8.1	CR PACK	CRs to Rel-5 (with mirror CRs) on Work Item IMS-CCR towards 24.229,- pack 5	IMS-CCR	Rel-5	CN1		APPROVED
NP-030481	8.8	CR PACK	CR to Rel-5 (with mirror CR) on Work Item TEI5 towards 24.008	TEI5	Rel-5	CN1		APPROVED
NP-030482	9.1	CR PACK	CRs to Rel-6 on Work Item IMS2 towards 24.229 and 23.218	IMS2	Rel-6	CN1		APPROVED
NP-030483	9.1	CR PACK	CRs to Rel-6 on Work Item IMS2 towards 24.229	IMS2	Rel-6	CN1		APPROVED
NP-030484	9.11	CR PACK	CRs to Rel-6 on Work Item IMSCOOP towards 24.229	IMSCOOP	Rel-6	CN1		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030485	9.18	CR PACK	CRs to Rel-6 on Work Item TEI6 towards 24.007 and 24.008	TEI6	Rel-6	CN1		APPROVED
NP-030486	9.18	CR PACK	CRs to Rel-6 on Work Item TEI6 towards 44.065 and 44.068	TEI6	Rel-6	CN1		APPROVED
NP-030487	9.23	CR PACK	CR to Rel-6 on Work Item MULTBF-Agmode towards 24.008	MULTBF-Agmode	Rel-6	CN1		APPROVED
NP-030488	9.4	WID	Emergency Call Enhancements for IP& PS Based Calls - stage 3	EMC1-PS	Rel-6	CN1		APPROVED
NP-030489	9.8	TR	TR 29.846 Multimedia broadcast / multicast service;CN1 procedure description	MBMS	Rel-6	CN1		NOTED
NP-030490	9.18	WID	WLAN Interworking - stage 3 definition of WLAN - 3GPP interworking	WLAN	Rel-6	CN1		APPROVED
NP-030491	9.18	TS	TS 24.234 3GPP system to Wireless Local Area Network (WLAN) interworking; User Equipment (UE) to network protocols	WLAN	Rel-6	CN1		NOTED
NP-030492	9.3	WID	Support for subscriber certificates, stage 3	SEC1-SC	Rel-6	CN1		NOTED
NP-030493	6.1.4	REPORT	Status Report for TSG CN WG4			CN4 Chair		NOTED
NP-030494	6.1.4	REPORT	CN4#21 Meeting Report			MCC		NOTED
NP-030495	6.1.4	LS PACK	All LSs sent from CN4 since TSG CN#21 Meeting			MCC		NOTED
NP-030496	7.1	CR PACK	CR to R97 on Work Item Camel 2	Camel2	R97	CN4		REVISED TO 0579
NP-030497	7.3	CR PACK	CR to Rel-4 and earlier on Work Item GPRS	GPRS	R99/Rel-4	CN4		APPROVED
NP-030498	7.4	CR PACK	CR to Rel-4 on Work Item Location Service Enhancement	LCS1	Rel-4	CN4		APPROVED
NP-030499	7.11	CR PACK	CR to R99 on Work Item Small Technical Enhancements and Improvements	TEI	R99	CN4		APPROVED
NP-030500	8.1	CR PACK	CR to Rel-5 on Work Item IP-based multimedia services Cx-/Dx-interface	IMS-CCR	Rel-5	CN4		APPROVED
NP-030501	8.1	CR PACK	CR to Rel-5 on Work Item IP-based multimedia services Sh-interface	IMS-CCR	Rel-5	CN4		APPROVED
NP-030502	8.1	CR PACK	CR to Rel-5 on Work Item IP-based multimedia services	IMS	Rel-5	CN4		APPROVED
NP-030503	8.3	CR PACK	CR to Rel-5 on Work Camel 4	Camel4	Rel-5	CN4		APPROVED
NP-030504	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030505	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		REJECTED
NP-030506	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		REPLACED BY 574 575
NP-030507	8.8	CR PACK	MAP CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		APPROVED
NP-030508	8.8	CR PACK	CR to Rel-5 on Work Item High Speed Data Packet Access	HSDPA	Rel-5	CN4		APPROVED
NP-030509	8.8	CR PACK	CR to Rel-5 on Work Item Mobile Number Portability	MNP	Rel-5	CN4		APPROVED
NP-030510	9.2	CR PACK	CR to Rel-6 on Work Item Support of Presence Capability	PRESNC	Rel-6	CN4		APPROVED
NP-030511	9.3	WID	Updated WID on Subscriber Certificates	SEC1-SC	Rel-6	CN4		APPROVED
NP-030512	9.8	CR PACK	CR to Rel-6 on Work Item Multimedia Broadcast and Multicast Service	MBMS	Rel-6	CN4		APPROVED
NP-030513	9.18	WID	Updated WID on WLAN	WLAN	Rel-6	CN4		NOTED
NP-030514	9.19	CR PACK	CR to Rel-6 on Work Item Location Service Enhancements	LCS2	Rel-6	CN4		APPROVED
NP-030515	9.14	CR PACK	CR to Rel-6 on Work Item ED Camel	EDCamel	Rel-6	CN4		APPROVED
NP-030516	9.22	CR PACK	MAP CR to Rel-6 on Work Item small Technical Enhancements and Improvements	TEI6	Rel-6	CN4		APPROVED
NP-030517	9.22	CR PACK	CR to Rel-6 on Work Item small Technical Enhancements and Improvements	TEI6	Rel-6	CN4		APPROVED
NP-030518	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		PART APPROVED
NP-030519	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements GTP Rel-5	GTP Enhancement	Rel-5	CN4		APPROVED
NP-030520	6.2.1	REPORT	CN2 Status Report to CN Plenary	-	-	CN2 Chair		NOTED
NP-030521	6.2.1	REPORT	CN2#31 Draft Meeting report	-	-	CN2		NOTED
NP-030522	8.3	CR PACK	CRs to Rel-5 WI CAMEL4	CAMEL4	Rel-5	CN2		APPROVED
NP-030523	8.3	CR PACK	CRs to Rel-5 WI CAMEL4	CAMEL4	Rel-5	CN2		APPROVED
NP-030524	8.3	CR PACK	CRs to Rel-5 WI CAMEL4	CAMEL4	Rel-5	CN2		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030525	8.3	CR PACK	CR to Rel-5 WI IMS-CAMEL	IMS-CAMEL	Rel-5	CN2		APPROVED
NP-030526	9.14	CR	Collective CR for TS 23.078 on Rel-6 Enhanced Dialed Services for CAMEL	EDCAMEL	Rel-6	CN2		APPROVED
NP-030527	9.14	CR	Collective CR for TS 29.078 on Rel-6 Enhanced Dialed Services for CAMEL	EDCAMEL	Rel-6	CN2		APPROVED
NP-030528	9.22	CR PACK	CRs to Rel-6 WI TEI_6	TEI_6	Rel-6	CN2		APPROVED
NP-030529	9.23	WID	WID: CAMEL Prepay interworking with SCUDIF		Rel-6	CN2		REVISED TO 0584
NP-030530	8.3	CR PACK	CRs to Rel-5 WI CAMEL4	CAMEL4	Rel-5	CN2		REJECTED
NP-030531	8.3	CR	Extension of QoS for HSDPA in GPRS CAMEL	CAMEL4	Rel-5	NEC, Vodafone	23.078	APPROVED
NP-030532	8.3	CR	Extension of QoS for HSDPA in GPRS CAMEL	CAMEL4	Rel-5	NEC, Vodafone	29.078	APPROVED
NP-030533	9.22	CR	EXPORT data types to CAP (Change of position armed with criteria)	Siemens AG	Rel-6	Siemens	29.002	APPROVED
NP-030534	5.3	DISCUSSION DOC	3GPPnetwork.org Management	Orange				NOTED
NP-030535		SPARE	SPARE	SPARE				SPARE
NP-030536	6.5.1	LS PACK	LSs outgoing from CN5 between CN#21 and CN#22			CN5		NOTED
NP-030537	6.5.1	REPORT	Draft Report of CN5#25, Bangkok, THAILAND, 27-31 Oct 2003 (N5-030507)			CN5		NOTED
NP-030538	7.12	CR	Backward signalling of service information between VMSC and GMSC for MTC	CS Data	R99	T-Mobile	29.007	APPROVED
NP-030539	7.12	CR	Backward signalling of service information between VMSC and GMSC for MTC	CS Data	Rel-4	T-Mobile	29.007	APPROVED
NP-030540	6.5.1	REPORT	Chair's report from CN5 (slide presentation)			CN5 Chair		NOTED
NP-030541	6.5.1	LS PACK	LSs outgoing from CN5 between CN#21 and CN#22			CN5		WITHDRAWN
NP-030542	6.5.1	REPORT	Draft Report of CN5#25, Bangkok, THAILAND, 27-31 Oct 2003 (N5-030507)			CN5 Chair		WITHDRAWN
NP-030543	7.10	CR	Rel-4/5 CRs 29.198-02 OSA API Part 2: Common data	OSA1	Rel-4	CN5		PART APPROVED
NP-030544	7.10	CR	Rel-4/5 CRs 29.198-04 OSA API Part 4: Call control	OSA1	Rel-4	CN5		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030545	7.10	CR	Rel-4/5 CRs 29.198-05 OSA API Part 5: Generic user interaction	OSA1	Rel-4	CN5		APPROVED
NP-030546	7.10	CR	Rel-4/5 CRs 29.198-12 OSA API Part 12: Charging	OSA1	Rel-4	CN5		APPROVED
NP-030547	8.2	CR	Rel-5 CRs 29.198-01 OSA API Part 1: Overview	OSA2	Rel-5	CN5		APPROVED
NP-030548	8.2	CR	Rel-5/6 CRs 29.198-02/13/14	OSA2	Rel-5	CN5		APPROVED
NP-030549	8.2	CR	Rel-5 CRs 29.198-03 OSA API Part 3: Framework	OSA2	Rel-5	CN5		APPROVED
NP-030550	8.2	CR	Rel-5/6 CRs 29.198-04-3 OSA API Part 4: Call control; Sub-part 3: Multi-Party Call Control SCF	OSA2	Rel-5	CN5		APPROVED
NP-030551	8.2	CR	Rel-5/6 CRs 29.198-04-4 OSA API Part 4: Call control; Sub-part 4: Multi-Media Call Control SCF	OSA2	Rel-5	CN5		APPROVED
NP-030552	9.7	TS	Draft Rel-6 TS 29.199 v100 on Parlay X Web Services	OSA3	Rel-6	CN5		NOTED
NP-030553	9.7	CR	Rel-6 CRs 29.198-1/14 OSA API Parts 1-14 and 29.998-04-4: OSA API Support for 3GPP2 networks	OSA3	Rel-6	CN5		APPROVED
NP-030554	9.7	CR	Rel-6 CRs 29.198-03/05 OSA API Part 3: Framework/ Part 5: Generic user interaction	OSA3	Rel-6	CN5		APPROVED
NP-030555	9.7	CR	Rel-6 CR 29.198-05 OSA API Part 5: Generic user interaction	OSA3	Rel-6	CN5		APPROVED
NP-030556	9.7	CR	Rel-6 CR 29.198-11 OSA API Part 11: Account management	OSA3	Rel-6	CN5		APPROVED
NP-030557	9.7	CR	Rel-6 CRs 29.198-14 OSA API Part 14: Presence and Availability Management (PAM)	OSA3	Rel-6	CN5		APPROVED
NP-030558	9.7	WID	Revised Rel-6 Work Item Description for OSA Stage 3 (Update of CN#21-approved NP-030353)	OSA3	Rel-6	CN5		APPROVED
NP-030559	6.3.1	REPORT	CN3 Status Report to CN Plenary	-	-	CN3 Chair		NOTED
NP-030560	6.3.1	REPORT	Draft Meeting Report from CN3#30 Meeting	-	-	CN3		NOTED
NP-030561	6.3.1	LS PACK	LSs outgoing from CN3 between CN#21 and CN#22	-	-	CN3		NOTED
NP-030562	7.12	CR PACK	CR PACK on CS Data Pack 1	CS Data	R99	CN3		APPROVED
NP-030563	7.3	CR PACK	CR PACK on GPRS Pack 1	GPRS	R99	CN3		APPROVED
NP-030564	8.7	CR PACK	CR PACK on SCUDIF	SCUDIF	Rel-5	CN3		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030565	8.5	CR PACK	CR PACK on E2EQoS	E2EQoS	Rel-5	CN3		APPROVED
NP-030566	8.9	CR PACK	CR PACK on CS Data Pack 2	CS Data	Rel-5	CN3		APPROVED
NP-030567	8.9	CR PACK	CR PACK on GPRS Pack 2	GPRS	Rel-5	CN3		APPROVED
NP-030568	8.9	CR PACK	CR PACK on HSDPA	HSDPA	Rel-5	CN3		APPROVED
NP-030569	9.13	CR PACK	CR PACK on IMS-CCR-IWCS	IMS-CCR-IWCS	Rel-6	CN3		APPROVED
NP-030570	9.17	CR PACK	CR PACK on IMS-CCR-MN	IMS-CCR-Mn	Rel-6	CN3		APPROVED
NP-030571	8.8	CR	SSD and Signalling indication in QoS IE	TEI5	Rel-5	Nokia		APPROVED
NP-030572	5.3	LS IN	DNS domains used on the GRX [PACKET Doc 17_006]			GSMA		NOTED
NP-030573	5.3	LS IN	Candidates 3GPP specifications for inclusion in Art 17 list of standards			ETSI ECN&S STF254		NOTED
NP-030574	8.8	CR	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	TEI5	Rel-5	Vodafone	23.003	REVISED TO 0577
NP-030575	8.8	CR	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	TEI5	Rel-6	Vodafone	23.003	REVISED TO 0578
NP-030576	6.4.1	LS OUT	Management of the "3GPPnetwork.org" domain			Orange		REVISED TO 0587
NP-030577	8.8	CR	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	TEI5	Rel-5	Vodafone	23.003	APPROVED
NP-030578	8.8	CR	Changes to enable the GSMA root DNS architecture using ".3gppnetwork.org" TLD	TEI5	Rel-6	Vodafone	23.003	APPROVED
NP-030579	7.1	CR PACK	CR to R97 on Work Item Camel 2	Camel2	R97	CN4		APPROVED
NP-030580	7.10	CR	Rel-4/5 CRs 29.198-02 OSA API Part 2: Common data	OSA1	Rel-4	CN5		APPROVED
NP-030581	8.1	CR PACK	CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 4	IMS-CCR	Rel-5	CN1		CONDITIONALLY APPROVED [SA5 CR]
NP-030582	12	WORK PLAN	Latest version of 3GPP Workplan			Sultan, MCC		NOTED
NP-030583	10.5	CALENDAR	Calendar of CN and CN WG meetings for 2003			MCC		NOTED
NP-030584	9.23	WID	WID: CAMEL Prepay interworking with SCUDIF		Rel-6	CN2		APPROVED

Tdoc	Agenda	Type	Tdoc Title	WI	Rel	Source	Spec	Status
NP-030585	8.8	CR PACK	CR to Rel-5 on Work Item small Technical Enhancements and Improvements	TEI5	Rel-5	CN4		APPROVED
NP-030586	12	DISCUSSION DOC	Proposed Improvements to work tracking			MCC		NOTED
NP-030587	6.4.1	LS OUT	Management of the "3GPPnetworg.org" domain			Orange (TSG_CN)		APPROVED

ANNEX C. TSG CN meeting Participants List

3GPP TSG CN#22 - 10 to 12 December 2003

Title	Firstname	Surname	Organization	Status	Partner	Role
ARIB						
Mr.	Rouzbeh	Farhoumand	Nippon Ericsson K.K.	3GPPMEMBER	ARIB	
Mr.	Toshiyuki	Tamura	NEC Corporation	3GPPMEMBER	ARIB	
CCSA						
Mr.	Wenlin	Zhang	HuaWei Technologies Co., Ltd	3GPPMEMBER	CCSA	
ETSI						
Ms.	Chelo	Abarca	ALCATEL S.A.	3GPPMEMBER	ETSI	
Mr.	Peter M.	Adams	BT Group Plc	3GPPMEMBER	ETSI	
Mr.	Niels Peter Skov	Andersen	MOTOROLA A/S	3GPPMEMBER	ETSI	
Mr.	Alastair	Angwin	IBM EUROPE	3GPPMEMBER	ETSI	
Mr.	Nigel	Barnes	MOTOROLA Ltd	3GPPMEMBER	ETSI	
Mr.	Paolo	Belloni	TELECOM ITALIA S.p.A.	3GPPMEMBER	ETSI	
Mr.	Nigel. H	Berry	Lucent Technologies N. S. UK	3GPPMEMBER	ETSI	
Mrs.	Marianne	Bignon	ALCATEL S.A.	3GPPMEMBER	ETSI	
Mr.	David	Boswarthick	ETSI Secretariat	3GPPORG_REP	ETSI	SECRETARY
Mr.	Richard	Brook	SAMSUNG Electronics	3GPPMEMBER	ETSI	
Dr.	Pascal	Correc	CEGETEL	3GPPMEMBER	ETSI	
Mr.	Ian	Doig	MOTOROLA S.A.S	3GPPMEMBER	ETSI	
Mr.	François	Dronne	ORANGE SA	3GPPMEMBER	ETSI	
Mr.	Giorgio	Fioretto	TELECOM ITALIA S.p.A.	3GPPMEMBER	ETSI	
Mr.	Frederic	Gabin	NEC Electronics (Europe) GmbH	3GPPMEMBER	ETSI	
Mr.	Mark	Gullett	HEWLETT-PACKARD France	3GPPMEMBER	ETSI	
Mr.	Ludwig	Hiebinger	Siemens nv/sa	3GPPMEMBER	ETSI	
Mr.	Hannu	Hietalahti	NOKIA Corporation	3GPPMEMBER	ETSI	WG_Chairman
Mr.	Andrew	Howell	MOTOROLA GmbH	3GPPMEMBER	ETSI	
Mr.	Dieter	Jacobsohn	T-MOBILE DEUTSCHLAND	3GPPMEMBER	ETSI	
Mr.	Per Johan	Jorgensen	ETSI Secretariat	3GPPORG_REP	ETSI	
Ms.	Susanna	Kallio	NOKIA Corporation	3GPPMEMBER	ETSI	
Mr.	Emfro	Kim	SAMSUNG Electronics	3GPPMEMBER	ETSI	
Mr.	Norbert	Klehn	SIEMENS AG	3GPPMEMBER	ETSI	WG_Chairman
Mr.	Takashi	Koshimizu	NTT DoCoMo	3GPPMEMBER	ETSI	
Mr.	Kimmo	Kymalainen	ETSI Secretariat	3GPPORG_REP	ETSI	
Mr.	Shahab	Lavasani	TeliaSonera AB	3GPPMEMBER	ETSI	
Mr.	Steve	Mecrow	BT Group Plc	3GPPMEMBER	ETSI	
Mr.	David	Montillet	ALCATEL S.A.	3GPPMEMBER	ETSI	

Dr.	Adrian	Neal	VODAFONE LTD	3GPPMEMBER	ETSI	
Mr.	Keijo	Palviainen	NOKIA Corporation	3GPPMEMBER	ETSI	
Mr.	Nick	Sampson	ORANGE PCS LTD	3GPPMEMBER	ETSI	
Mr.	Peter	Schmitt	SIEMENS AG	3GPPMEMBER	ETSI	WG_Chairman
Mr.	Iain	Sharp	NORTEL NETWORKS (EUROPE)	3GPPMEMBER	ETSI	
Mr.	Alain	Sultan	ETSI Secretariat	3GPPORG_REP	ETSI	
Mr.	Stefan	Toth	ERICSSON LM	3GPPMEMBER	ETSI	
Mr.	Jose Antonio	Ubeda	TELEFONICA de España S.A.	3GPPMEMBER	ETSI	
Mr.	Hans	van der Veen	NEC EUROPE LTD	3GPPMEMBER	ETSI	
Mr.	Peter	Wild	Vodafone D2 GmbH	3GPPMEMBER	ETSI	
Mr.	David	Williams	QUALCOMM EUROPE S.A.R.L.	3GPPMEMBER	ETSI	
Mr.	Adrian	Zoicas	ETSI Secretariat	3GPPORG_REP	ETSI	
T1						
Mr.	Ed	Ehrlich	Nokia Telecommunications Inc.	3GPPMEMBER	T1	
Mr.	Marc	Grant	Cingular Wireless LLC	3GPPMEMBER	T1	
Mr.	Stephen	Hayes	Ericsson Inc.	3GPPMEMBER	T1	Chairman
Miss	Luisa	Marchetto	AT&T Wireless Services, Inc.	3GPPMEMBER	T1	
Mr.	Peter	Oldfield	Rogers Wireless Inc.	3GPPMEMBER	T1	
Dr.	John	Waclawsky	Cisco Systems	3GPPMEMBER	T1	
TTA						
Mr.	Hyung Joon	Cho	SK Telecom	3GPPMEMBER	TTA	
Mr.	Wooyong	Choi	SK Telecom	3GPPMEMBER	TTA	
TTC						
Mr.	Shinichiro	Aikawa	Fujitsu Limited	3GPPMEMBER	TTC	
Mr.	Tomas	Holmström	Nippon Ericsson K.K.	3GPPMEMBER	TTC	
Mr.	Yasuhiro	Kitajima	NTT DoCoMo Inc.	3GPPMEMBER	TTC	
Mr.	Kunihiko	Taya	NEC Corporation	3GPPMEMBER	TTC	ViceChairman
Mr.	Keiji	Yoshino	TTC	3GPPORG_REP	TTC	
Mr.	Kawanami	Yukio	NEC Corporation	3GPPMEMBER	TTC	

Total: 58 Attendees

History

Document History	
UP to 11 th Dec 2003	DRAFT v001, 002 distributed in meeting. v002 send to TSG CN Officials for comments
16 th Dec 2003	DRAFT v1.0.0 Presented to TSG-SA#22
19 th Dec 2003	<p>DRAFT v1.1.0 placed to meeting server and dispatched to the TSG-CN mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. David Boswarthick, 3GPP TSG CN MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 E-mail: david.boswarthick@ETSI.org</p> <p>A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.</p> <p>E-mail comments back by 15th Jan 2004</p>
<i>March 2004</i>	<i>Final v2.0.0 approved at TSG#23 Meeting– Made version 3.0.0 and placed to server as the official meeting report.</i>