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Draft Report, Version 1.0.0

Table of contents

1	Opening of the meeting.....	4
2	Approval of the Agenda.....	4
3	Approval of the meeting report of TSG SA Meeting No. 4.....	4
4	Letters / Reports from other groups.....	4
4.1	TSG T, TSG CN, TSG RAN.....	4
4.2	Partners and their bodies.....	6
4.3	Others.....	7
5	Reports from TSG SA Working Groups.....	8
5.1	SA WG1.....	8
5.1.1	Report from SA WG1 (including release 2000 planning).....	8
5.1.2	Questions for advice and decisions from SA WG1.....	8
5.1.3	Approval of contributions from SA WG1.....	8
5.2	SA WG2.....	10
5.2.1	Report from SA WG2 (including release 2000 planning).....	10
5.2.2	Questions for advice and decisions from SA WG2.....	11
5.2.3	Approval of contributions from SA WG2.....	11
5.3	SA WG3.....	13
5.3.1	Report from SA WG3.....	13
5.3.2	Questions for advice and decisions from SA WG3.....	13
5.3.3	Approval of contributions from SA WG3.....	13
5.4	SA WG4.....	14
5.4.1	Report from SA WG4.....	14
5.4.2	Questions for advice and decisions from SA WG4.....	14
5.4.3	Approval of contributions from SA WG4.....	14
5.5	SA WG5.....	15
5.5.1	Report from SA WG5.....	15
5.5.2	Questions for advice and decisions from SA WG5.....	15
5.5.3	Approval of contributions from SA WG5.....	16
5.6	Review of TSG SA work programme (including Release 2000 planning).....	16
5.7	Letters to other groups.....	16
5.8	Other issues.....	16

6	Technical co-ordination with TSG CN, TSG RAN and TSG T	16
6.1	TSG CN	16
6.1.1	Report from TSG CN	16
6.1.2	Questions for discussion in TSG SA.....	17
6.1.3	Information on status and changes to deliverables	18
6.2	Report from TSG RAN.....	18
6.2.1	Report from TSG RAN.....	18
6.2.2	Questions for discussion in TSG SA.....	19
6.2.3	Information on status and changes to deliverables	19
6.3	Report from TSG T	19
6.3.1	Report from TSG T	19
6.3.2	Questions for discussion in TSG SA.....	20
6.3.3	Information on status and changes to deliverables	20
6.4	Letters to others groups	21
6.5	Content of October specification set.....	21
6.6	Release 1999	21
6.7	Release 2000 and beyond	22
6.8	Other issues.....	24
7	Project Management.....	24
7.1	Review of work programme	24
7.2	Handling of October specification set	24
7.3	Working methods.....	24
7.4	Other issues	25
8	Project support.....	25
9	Postponed issues from earlier in the meeting.....	26
10	Workplan and future meetings.....	26
11	Any other business.....	26
12	Closing of meeting	27
	Annex A: Co-ordinates of TSG and WG Officials	28
A.1	TSG SA Officials	28
A.2	TSG CN Officials.....	29
A.3	TSG RAN Officials	30
A.4	TSG T Officials	31
	Annex B: List of documents	32
	Annex C: List of attendees.....	35
	Annex D: Status list of Specifications and Reports after TSG SA Meeting #5 ("October Release")	38
	Annex E: List of Change Requests and their status after TSG SA Meeting #5	47
	3GPP CR from SA (Working Methods document)	47
E.1	CRs from SA WG1:.....	47
	3GPP CRs	47
	GSM CRs.....	51

E.2	CRs from SA WG2:.....	52
	3GPP CRs	52
	GSM CRs.....	54
E.3	CRs from SA WG3:.....	55
	3GPP CRs	55
E.4	CRs from SA WG4:.....	55
	3GPP CRs	55
E.5	CRs from SA WG5:.....	56
	GSM CRs.....	56
Annex F:	Status of all 3GPP CRs after TSG SA #5 Meeting:	57
Annex G:	Status of CRs to GSM Specifications after SA #5 meeting	73

1 Opening of the meeting

The TSG SA Chairman, Mr. N. Andersen opened the meeting and Dr. S. K. Park welcomed delegates to the historic city of Kyongju, South Korea, on Behalf of TTA and Hosting companies. A LAN facility had been set up for the meeting and had already been used by the preceding TSG meetings where it had proven to be very convenient and a good step towards electronic meetings.

The TSG SA Chairman thanked the hosts for hosting the meeting and providing the effective meeting facilities.

2 Approval of the Agenda

[SP-99469](#): The agenda had been revised taking into account comments of editorial nature. [The agenda was approved.](#)

3 Approval of the meeting report of TSG SA Meeting No. 4

TD [SP-99345](#): The Report of Meeting #4 was approved without change.

4 Letters / Reports from other groups

TD [SP-99378](#): Draft summary minutes from 3GPP PCG Meeting #2 (6-7 July 1999). This was provided for information and the TSG SA Chairman summarised the main points of the meeting. Annex A of the document (TD [SP-99378](#)) contains a list of decisions of the PCG.

It was noted that TSG SA have been delegated the responsibility for the maintenance of the 3GPP Working Methods and that a method had been agreed which will enable the ITU to reference 3GPP results before they are formally converted by the Partners.

With the summary, the document was noted.

4.1 TSG T, TSG CN, TSG RAN

TD [SP-99346](#): Liaison statement response on IST for non-CAMEL subscribers from TSG CN for information. The TSG CN Chairman reported that this item has already been dealt with by CN WG2. The document was noted as for information.

TD [SP-99350](#): LS on Use of Prioritising Channel Selection for Cell Selection Procedure from RAN WG2. The liaison explains the proposals made on scanning a list of pre-defined prioritised frequencies as defined by Network Operators. This is intended to reduce the scanning time and speed-up the selection process. It was reported that there may be some impact on Roaming, which should be investigated. In the liaison statement, SA WG1 are asked if there is a service requirement for the use of priority fields as described in the liaison. TSG SA supported the principles and encouraged RAN WG2 and SA WG1 to co-operate on this issue. The GSM Association representatives present at the meeting were asked to feed the document into their organisations for consideration and to liaise with RAN WG2 and SA WG1 in order to get the full picture, so that the work can be completed.

TD [SP-99352](#): Liaison statement to SA WG4 on Support of Speech Service in RAN. The document was noted by TSG SA and will be handles by SA WG4.

TD [SP-99360](#): Liaison Statement to TSG SA and CN WG1 (CC) on required network functionality for usage of SIM in 3G mobiles from CN WG2. The TSG CN Chairman explained that further details and clarification are requested by CN WG2 in order to complete their work accordingly. SA WG1 have been considering the SIM requirements in the 3G system. Further details were provided in the Report of SA WG1 (Agenda Item 5.1.1).

TD [SP-99361](#): LS to RAN WG2 and RAN WG1 on Physical Layer Measurements Requirements from RAN WG4. The document was copied to TSG SA for information. The Liaison was noted by TSG SA.

TD [SP-99362](#): Liaison statement to TSG-S4 on radio simulator capabilities from RAN WG4. The document was presented for information and noted by TSG SA. SA WG4 were asked to consider the consequences of the lack of ability of RAN WG4 to provide test sequences simulated by a reference radio environment.

TD [SP-99367](#): Review of 3GPP TS26.112 "Call Set-up Requirements for Circuit Switched Multimedia Telephony Service", version 1.1.0. The document is provided to TSG SA for information and was noted by TSG SA. SA WG4 will deal with the document accordingly.

TD [SP-99368](#): LS regarding the scope of CAMEL Phase 3 from CN WG2. CN WG2 have agreed to split the scope of CAMEL Phase 3 work. It was noted that SA WG1 have seen the document and more information will be given in the report from SA WG1.

TD [SP-99376](#): Liaison statement on selected location service methods for Release '99. RAN WG2 ask for clarification on whether the LCS will be mandatory or optional for Release 1999. SA WG1 are describing 3 methods of Location and need to consider other services which may be impacted by LCS. The wish for consistent systems for LCS across many IMT-2000 family members was noted. This topic was detailed during the SA WG1 presentation.

TD [SP-99413](#): Liaison statement on freezing GSM Release 97 & Release 98. This informs other TSGs of the freezing of GSM release 1997 and GSM Release 1998 maintained by TSG CN such that no new features may be added to these Releases. Mr. Thomas (France Télécom) requested that the Operators should also participate in the decision for allowing changes, and not only the Manufacturers. TSG SA noted the document and the TSG SA Chairman reminded the WGs to follow the rules of only necessary corrections to Release 1997 and 1998 documents.

TD [SP-99414](#): Liaison to TSG SA on the ITU-R TG 8/1 revision of Recommendation M.1079 from TSG RAN. This liaison asks TSG SA to review the material in Annex 3 of the liaison and consider sending a liaison to ITU-R before 14 October 1999. SA WG1, SA WG2 and SA WG4 Chairmen were asked to consider this document and determine if any significant modifications have to be made and to report back to the meeting. After the review period, no significant modifications were found needed. The proposed changes given in Annex 3 of TD [SP-99414](#) was found to correctly reflect the thinking of SA WG4. It was clarified that the latest version of TR 23.907 would be attached to the liaison to ITU-R.

TD [SP-99420](#): Liaison statement to TSG SA on resource situation and the general strategy and status of the elaboration of test cases from TSG T. It reports a lack of resources for the production of Test Specifications, which will be responsible for delays to the finalisation of the documents and resulting in late availability of test specifications for Release 1999. TSG SA were asked if 3GPP Members could not provide resources, whether a Project Team should be set-up in order to produce the test specifications. It was clarified that this request is in addition to the requests already being made for resources for project teams for TTCN and SIM testing. TSG T was asked to consider how the work should be split between T WG1 and a potential project team. It was agreed that a description of the work split and cost estimates for the work should be specified before final decision on this can be taken.

TD [SP-99421](#): Regarding Position paper on "Supplement to Recommendation Q.1701" from ITU-T WP 3/11 from TSG T. This was presented for information, describing the TSG T position paper for the modifications proposed to Q.1701. The position paper was noted by TSG SA and interested parties are invited to use it as a basis for their contributions to ITU-T. A request to ensure that all aspects of Q.1701 were covered was received. TSG CN have looked at the document from their viewpoint. It was decided that a side-meeting be convened to try to ensure that all areas of Q.1701 are covered by the various reviews and report back to the meeting. This resulted in TD [SP-99491](#), which was handles under agenda item 6.4.

TD [SP-99422](#): Regarding Position paper #2 on "Supplement to Recommendation Q.1701" from ITU-T WP 3/11 from TSG T. This document was considered in the same way as TD [SP-99421](#) and the same comments apply.

TD [SP-99457](#): Terminology and vocabulary in 3GPP. The principles for the production of vocabularies, provided by SA WG1 were agreed by TSG T and TSG T further propose a single common vocabulary document for 3GPP, maintained by TSG SA, in order to harmonise terminology across the system. SA WG1 have not had much time to consider this issue recently, and a commitment for resources for the production and maintenance of a vocabulary is required. The SA WG1 Chairman reported also that a common vocabulary could not be produced by a single group, but that each TSG/WG would need to provide information to the editor of such a document.

On this topic, the TSG SA Chairman outlined a specific problem of terminology of UE/MS in specifications for 3GPP systems and GSM respectively. He suggested to avoid a large-scale update of specifications by, for example, inserting a note to indicate how the term UE/MS should be interpreted in a given specification in relation to 3GPP/GSM systems respectively. Interested parties were asked to try to find a solution before the end of the meeting and to report back.

It was agreed that when possible the GSM terms should be re-used before creating new terms in order to minimise the impact on existing specifications. For UE/MS a solution is required which does not require the update of all the GSM / 3GPP specifications. It was stressed that a generic approach is required for the vocabulary document in order to be flexible enough to accommodate future terminology in the different system domains where they will be used.

It was stated that 23.101 requires a verification and update because of contradictions and lack of definitions.

Summary: It was generally agreed that a single common vocabulary should be produced which all documents should reference. It was also agreed that GSM terminology should be used as far as possible to reduce the necessary changes to existing specifications. The principles of the contribution were agreed, except that it was not agreed that the definitions in the common vocabulary overrides local definitions.

TD [SP-99458](#): Liaison statement to TSG SA on the distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals from TSG T. The document was incomplete and is therefore presented for information and discussion rather than for action. Further information including the missing Annexes will be sent via the e-mail reflector. T WG1 would like to make a prioritised list of testing specification work and request help from TSG SA to identify the priorities for the work, with a highest priority for the tests needed for Regulatory purposes. TSG T will elaborate a first proposal which will be forwarded to the SDOs via the PCG for the SDOs to liaise with regulatory bodies for feed-back.

4.2 Partners and their bodies

TD [SP-99347](#): Liaison on 3GPP handling of the OHG Proposal from T1P1. T1P1 expresses it's support for a single DS-carrier mode. This has been overtaken by events and was noted by TSG SA.

TD [SP-99348](#): Supporting the concept of an All-IP Network Architecture and offering to support the relevant groups with hosting of the meetings in North America. The document was noted.

TD [SP-99370](#): Liaison statement on PLMN selection for GPRS MS from SMG2. In this ETSI SMG2 indicates that they can not support the proposal from TSG CN on introduction of GPRS-specific PLMN selection. It was noted that as a consequence, TSG CN, for the time being, had abandoned the proposal. More generally SMG2 expressed concern on the impact on radio issues of service-specific PLMN selection. SA WG1 were asked to note that ETSI SMG2 would like to be kept informed on their work on PLMN selection. The document was noted by TSG SA.

[SP-99372](#): LS concerning the GSM/EDGE RAN from SMG2. SMG2 and SA WG1/SA WG2 are asked to discuss the possible roadmap from Release 1999 to Release 2000 and the related deployment scenarios for GSM/EDGE RAN. The Draft of GSM/EDGE RAN radio requirements was provided for information in TD [SP-99371](#). It was clarified that the liaison was sent to TSG SA because 3GPP has taken over the work on Service, Architecture and Core Network definition for Release 2000. One requirement for Release 2000 is for an All-IP Core Network. SMG2 indicated that for the Release 2000 GSM/EDGE RAN to interwork with this will require very close cooperation with SA WG1, SA WG2 and TSG CN. The document was noted as a request for close cooperation between SA WG1, SA WG2, TSG CN and ETSI SMG2. SA WG1 and SA WG2 were asked to establish close cooperation with ETSI SMG2 to ensure the GSM/EDGE system also are covered by the requirements and architectures being elaborated.

TD [SP-99371](#): Draft of GSM/EDGE RAN Radio Requirements. This was provided by ETSI SMG2 for information. The document was noted.

TD [SP-99385](#): GSM LCS Charging from T1P1.5. T1P1.5 ask that SA WG5 undertakes the charging standards work of GSM LCS. The SA WG5 Chairman reported that SA WG5 is willing to take on the subject, but they need to look at the resource availability for the work. If sufficient resource is available then SA WG5 will start work on this and co-operate with the GSM Association. It was noted that whenever a service is being specified, then the Charging aspects should automatically be dealt with as a part of that work.

TD [SP-99403](#): Liaison statement to 3GPP concerning Global Certification or Type Approval from the UMTS Forum. The Liaison suggests that the test specifications for the 3G specifications should be worked out according to the following principles:

- *There should be only one set of test requirements for each 3GPP core specification world-wide,*
- *All relevant demands, including operator and regulator demands, should be incorporated, so that no additional specific requirements are needed (except such horizontal demands as EMC requirements and user safety requirements),*
- *Handover situations with other standards must be covered,*
- *Test requirements must be produced as soon as possible after the specification is finished so they can be taken into account in the industrial development process.*

The regulatory requirements should be a subset of the total test requirements.

It is not the task of 3GPP to decide how much of the test requirements that should be regulatory requirements. To arrive at such a decision there must be consultations between regulatory bodies.

It was clarified that the first bullet intended that there should be a single set of test specifications world-wide for the 3GPP core specifications. The document was noted recognising that the liaisons from TSG T, which had identified resourcing problems and the need for prioritisation in the Testing work, is in alignment with the concerns raised in this liaison from the UMTS Forum. TSG T are expected to deal with the details and concerns of Testing for 3GPP specifications.

TD [SP-99404](#): VCS Principles from the GSM Association. A presentation of this document is contained in TD [SP-99405](#).

NOTE: "VCS" is the previous name of the project, but now the voluntary certification scheme is to be conducted under the management of the "GSM Certification Forum" (GCF), which is to be a joint (manufacturers and operators, as well as test houses/suppliers) forum.

A short presentation was given on the principles of the Voluntary Certification Scheme. The VCS Programme is planned as follows:

- *Secretariat in place by 1 December 99*
 - *Program "Organisationally" functional*
- *Program "functionally operational" by GSM World Congress in February 2000*
 - *Begin accepting Declarations of Conformity from manufacturers if certified*
- *Program fully operational by 1 April 2000*
 - *Prior to 8 April 2000 start of R&TTE Directive*

The agreed process is intended to be used as a basis for a 3GPP certification scheme. Further information is available at: <http://www.industry.gsm.org>

TSG SA noted the presentation of the VCS programme as for information.

TD [SP-99472](#): UMTS Forum Report to 3GPP SA#5 (Presentation). The UMTS Forums Current Activities are New Market Forecast Study, Exhibition at ITU CPM/WRC2000, InfoCom Technology/Regulatory Workshop - Singapore and Globalisation Activities. The presentation provided information about the Market Research activities and Lobbying/Representation planned by the UMTS Forum to promote the adoption of the 3GPP system world-wide. The document was noted by TSG SA.

TD [SP-99406](#): Liaison Statement on Inter PLMN Handover principles from the GSM Association. The GSM Association asked for confirmation of their assumption that the responsibility for all handovers, which occur during a connection will stay with the Serving PLMN. TSG SA confirmed this assumption. The GSM Association also asked TSG SA to specify more precisely to which type of scenarios the principles for inter PLMN handover as described in the contribution are actually applicable. This contribution also recommends that the standard GSM charging architecture should be enhanced to cater for inter-MSC and inter PLMN handover appropriately, in order to support inter carrier accounting between the Anchor and the Access PLMN. TSG SA agreed to forward the document to SA WG5 for consideration of the charging principles and other groups (TSG RAN, TSG CN and SA WG2) were asked to review the implications described in the document and take this into account in their work.

4.3 Others

TD [SP-99416](#): Co-ordination between 3GPP TSG SA and ETSI SPAN3, related to OSA. Alcatel presented this contribution which informs TSG SA of the work that ETSI SPAN3 have started on Open Service Architecture (OSA) and proposes a joint meeting with CN WG2 to discuss the OSA requirements. The TSG CN Chairman reported that this issue would be dealt with at a workshop at the end of October and did not wish to drain any resources from the ongoing specification work for Release 1999. TSG SA noted that CN WG2 would meet with ETSI SPAN3 to make an assessment on the available material from ETSI SPAN3, SA WG1 and SA WG2, and to determine the time scales and workload involved in this item. TSG SA noted that the results are not to be expected to be part of Release 1999. Further, it was noted that the VHE specification still does not cover the handling of services in foreign networks.

5 Reports from TSG SA Working Groups

5.1 SA WG1

5.1.1 Report from SA WG1 (including release 2000 planning)

TD [SP-99429](#) is the report to TSG SA from SA WG1, which was presented using the slides given in TD [SP-99430](#).

SA WG1 has had a busy schedule since the last TSG SA meeting and have made good progress in many areas. A new work item has been identified: *MS and Network-Resident Execution Environments (MS/N-RExE)*, given in document TD [SP-99470](#) and TSG SA was asked to approve this. Another work item was proposed for deletion from the SA WG1 list: *MS in Protected Zone*.

- One unresolved item on emergency calls in TD [SP-99481](#) was brought to TSG SA for decision on a way forward. NTT DoCoMo proposed this in anticipation of a possible regulatory requirement. However, some other delegates at SA WG1 had opposed this.

A number of CRs were presented to TSG SA which are detailed under Agenda Item 5.1.3.

3 Specifications submitted for approval to TSG SA and 1 specification was submitted for Information. This is detailed under agenda item 5.1.3.

It was questioned whether it is reasonable to include the Follow-Me service in the 3G specification set. (ref 3G TS 22.094 / GSM 02.94). After some debate and exchange of views it was [decided that the follow-Me specification should be re-considered by SA WG1 and a recommendation made on the suitability for 3GPP](#).

For the presentation of specifications for approval, the TSG SA Chairman requested that all are accompanied by a cover note explaining the content of the document and clearly indicating any open issues under discussion or for further study.

5.1.2 Questions for advice and decisions from SA WG1

TD [SP-99349](#): Liaison statement concerning requirements for all-IP option for release 2000. This had been overtaken by events and was therefore not discussed in detail, and noted by TSG SA.

5.1.3 Approval of contributions from SA WG1

Specifications presented for Information:

TD [SP-99431](#): TS 22.140 Multimedia Messaging Service - Stage 1. This specification was noted.

TD [SP-99432](#): TS 22.094 Follow Me Service description - Stage 1. This specification was presented for Information and **not approved**. Based on the discussion on Follow-Me described above, SA WG1 will reconsider the applicability of the service for 3GPP.

Specifications presented for Approval:

TD [SP-99433](#): TS 22.135 - Multicall; Service description - Stage 1. [The specification was approved and placed under TSG SA Change Control as version 3.0.0](#). It was requested that other groups consider the specification and comment to SA WG1, if they have any problems with the specification.

TD [SP-99415](#): "User Control" requirements for SIM toolkit stage 1 from France Telecom. France Télécom consider that TSG SA can not approve the current version of TS 22.038 (SAT stage 1), unless the sections described in TD [SP-99415](#) are deleted (or marked as "for further study"). Further, it is suggested that the document is given back to SA WG1 and T WG3 for further elaboration on the "user control" requirements.

[TSG SA noted the points raised in TD SP-99415 and asked SA WG1 to reconsider the sections 5, 7.6 and 8.2 as outlined in TD SP-99415.](#)

TD [SP-99434](#): TS 22.038 - SIM Application Toolkit (SAT); Service description - Stage 1. The specification was based on the SIM rather than the USIM, and some work is still to be done and SA WG1 are willing to do this while the specification is under change control. [This specification was approved and placed under TSG SA Change Control as version 3.0.0. SA WG1 was asked to reconsider sections 5, 7.6 and 8.2 \(see TD SP-99415\).](#)

It was requested that the next TSG SA Plenary determine whether the SIM Application Toolkit is included in Release 1999.

TD [SP-99470](#): Work Item description for MS and Network-Resident Execution Environments (MS/N-RExE). The Principle of a such work item in this area was agreed by TSG SA and the SA WG1 Chairman was asked to update the Work Item to cater for the comments and re-present it to TSG SA for approval.

The description was later updated and presented as TD [SP-99494](#). There were further comments and objections to the approval of the work item at this time and clarification of the proposals was requested. Based on the comments the TSG SA Chairman requested that the work item description was reworked and split in two, so the issue of traceability will become a separate work item. SA WG1 were asked to elaborate this for the next meeting of TSG SA. ([Work Item Not Approved at this time](#)).

TD [SP-99456](#): All IP option for Release 2000. This presentation gives the thoughts of SA WG1 at the moment and the details are subject to further elaboration. SA WG1 are creating an ad-hoc group to look at All-IP requirements for Release 2000. For email discussions there is an e-mail reflector list: mailto:S1_IP@LIST.ETSI.FR. The incompatibilities in the text of the slides were questioned, it was explained that the ideas presented have not yet been consolidated within SA WG1. It was further clarified that the presentation was only concerning the IP Part of the Release 2000 networks. The subject of Number Portability was questioned and it was concluded that the study should concentrate on a service basis rather than on a technology-basis (NP is related to telephony and not specific to IP). After much discussion over the points given in the presentation, it was emphasised that the presentation is a preliminary view and is subject to change and should not be seen as a stable document. It was agreed that SA WG1 are to concentrate on the User point of View and to discuss the User requirements for services, as is usual for their work. The detailed specification of the Services belongs to other groups.

SA WG1 were asked to note the comments received during the discussion of the presentation and consider them in the further elaboration of their ideas.

TD [SP-99411](#): Some requirements for an « all IP» option for UMTS, from France Telecom and Vodafone. This discusses the requirements for an all-IP Network and recommends that if an all IP option is to be included in Release 2000 of UMTS, the different working groups shall be instructed to specify it according to the principles outlined in the contribution. The contribution was considered and TSG SA requested that this type of contribution is input to the relevant working groups, rather than directly into TSG SA.

A full list of Change Requests for SA WG1 and their status after the meeting is given in Annex E, section E.1.

Notes on approval of CRs:

TD [SP-99436](#): CR 22.129-007. The changes to add section 8.2.2 and Annex A.1 shall be removed from the CR and SA WG1 should reconsider the Inter-PLMN handover issues. The removal of this is not the removal of the Inter-PLMN handover. (Resubmitted as TD [SP-99483](#) as CR 22.129-007r1 and [Approved](#)).

TD [SP-99437](#): CR 02.71-A001. Velocity requirements needed correct specification or removal (Resubmitted as TD [SP-99486](#) as CR 02.71-A001r1 and [Approved](#)).

TD [SP-99437](#): CR 22.071-001r1. Velocity requirements need correct specification or removal. This CR was [Postponed](#).

TD [SP-99438](#): CR 22.071-002. The question was raised and unclear from the requirements document what were the terminal requirements for Release 1999. (The CR was [Approved](#))

TD [SP-99479](#) (Replaces TD [SP-99444](#)): CRs 22.068-001 and 22.069-001 were [Rejected](#) because TSG SA decided that the ASCII services VBS and VGS were not to be a part of the 3GPP services.

TD [SP-99451](#): CR 22.097-002: SA WG1 to check if this was really intended to be used for 3GPP. (The CR was [Approved](#)).

TD [SP-99481](#): This CR had not been approved at SA WG1 and NTT DoCoMo presented it to TSG SA directly. It was stated that the CR foresees a National Variation on MS implementations. In the case that there is a specific need for additional emergency numbers due to local regulation, this should then be raised again at TSG SA in order have it included in the standard in order to avoid unnecessary local variation of terminals. The CR was [Not Approved](#).

All other CRs presented by SA WG1 were [Approved](#) by TSG SA.

TD [SP-99349](#): Liaison statement concerning requirements for all-IP option for Release 2000. This was noted but had already been covered by the previous discussions.

5.2 SA WG2

5.2.1 Report from SA WG2 (including release 2000 planning)

TD [SP-99386](#): The status report of SA WG2 was presented by the SA WG2 Chairman.

SA WG2 presentation of new technical documents:

- TR 23.922 v.1.0.0, Architecture for an all-IP network, in TD [SP-99388](#)
 - TR 23.923 v.1.0.0, Combined GSM and Mobile IP Mobility Handling in UMTS IP CN, in TD [SP-99389](#)
 - TS 23.171 v.1.0.0, Location Services (LCS) in UMTS - Stage 2, in TD [SP-99408](#)
- Note It is proposed to have two different TSs for LCS stage 2 CN for Release 99: one for GSM in 03.71 v.8.0.0 and one for UMTS, 23.171
- TS 23.127 v.0.2.1, Virtual Home Environment (VHE)/Open Service Architecture (OSA) - Stage 2, in [SP-99409](#) including a proposed process of way forward (TSG SA approval for V.1.0.0 by correspondence proposed).

The critical issues were reported as being:

- Classmark issues (CS&PS, HO handling with GSM/GPRS) are not sufficiently addressed (several groups involved).
- In core network (N1) changes to 24.008 as due to the removal of LLC and stream identifier concept are essential for R99. In case of timing problem, multicall could be moved to future releases.

It was questioned whether it was of importance to complete Multicall for December 1999. It was stated that it is undesirable to remove WIs from the December 1999 target date, but to flag the problems to the TSG for resolution before the next TSG meetings and then decide whether or not to include the item in the Release 1999 specification set.

The status of the work of SA WG2 was noted by TSG SA as providing a good overview. Some more detailed discussion of some of the items took place under the relevant under agenda item.

It was stated that in LCS, the location methods are not specified and it was asked if it is intended to leave positioning methods out of the study. The SA WG2 chairman responded that it has not yet been included in Release 1999, due to the requirements for LCS in the 3G system

It was stated that CBS specifications requires more discussion between T WG2 and TSG RAN.

Full integration of most security features on schedule but correction CRs to some R99 specifications envisaged until March/April 2000. This was questioned and it was clarified that in this period it is unavoidable that some specifications will need corrections of the Release 1999.

The lack of input reported from N3 is due to the lack of dedicated expertise in this area and CN WG3 would welcome delegates who knowledgeable in these areas.

It was asked whether the Co-ordination ad-hoc groups had considered the current WI set of various groups. It was explained that the work is being defined in sets of work packages and building blocks rather than in Work Items. Some linking of the current work items is needed in order to allow the project management required from the overall 3GPP Work Programme.

TD [SP-99387](#): TS 23.107 v2.0.0 (which was previously allocated as 23.907): "QoS Concept and Architecture" was presented for approval as a TS and not as earlier planned a TR. [It was Approved as TS23.107 and placed under TSG SA Change Control as version 3.0.0.](#)

TD [SP-99388](#): TR 23.922 version 1.0.0: "Architecture for an All IP network" was presented for information.

TD [SP-99389](#): TR 23.923 version 1.0.0: "Combined GSM and Mobile IP Mobility Handling in UMTS IP CN" was presented for information.

TD [SP-99408](#): TS 23.171 version 1.0.0: "Functional stage 2 description of location services in UMTS" was presented for information. It was proposed to have two separate specifications for LCS, one GSM specific (GSM 03.71, handled by ETSI SMG) and one 3GPP specific (TS 23.171). The document was noted.

TD [SP-99409](#):TS 23.127 v0.2.1: "Virtual Home Environment / Open Service Architecture" was provided for comment. Version 0.3.0 was also provided, but had not yet been approved by SA WG2 due to technical reasons. When approved by SA WG2 (by e-mail approval) it will be sent out to the TSG SA e-mail reflector as version 1.0.0 for information for presentation in December 1999 for Approval by TSG SA.

It was remarked that currently the specification could not be considered as a VHE specification, because it did not really provide any new means for provision of service in foreign networks and it was necessary to rely on CAMEL.

During the presentation the following question in relation to the work on the architecture for Release 2000 was raised by SA WG2 to TSG SA:

- Should Release 99 CS-terminals be supported in Release 2000 networks?

Assumption is yes, architecture option proposed in the TR

[TSG SA agreed that the answer is Yes.](#) (i.e. that Release 99 CS-terminals should be supported by the specifications for Release 2000 networks)

The following Project Plan documents were presented during the presentation and was noted as for information by TSG SA:

- [SP-99390](#): TR 30.801 v.1.0.0, Overall Project Plan.
- [SP-99391](#): TR 30.802 v.1.0.0, Project plan on Bearer Services and QoS
- [SP-99392](#): TR 30.804 v.1.0.0, Project plan on GSM/UMTS Interoperation and Mobility Management
- [SP-99393](#): TR 30.806 v.1.0.0, Project plan on Location based services
- [SP-99394](#): TR 30.808 v.1.0.0, Project plan on Packet Architecture and Circuit Architecture
- [SP-99395](#): TR 30.810 v.1.0.0, Project plan on Security
- [SP-99396](#): TR 30.812 v.1.0.0, Project plan on Services and Service Platforms

Delegates are encouraged to read the documents received for information and noted and to forward comments to SA WG2.

[As a reaction to the high number of Liaison Statements in TSG SA, which was also reported to be the case in SA WG2, the TSG SA Chairman commented that the large numbers of liaison statements to TSG SA and its working groups should be avoided wherever possible, by use of direct contact with the Chairman, Vice-Chairmen and Colleagues, or via MCC Support Team members.](#)

5.2.2 Questions for advice and decisions from SA WG2

TD [SP-99351](#): Liaison statement concerning the work plan for all-IP option for release 2000. This contribution was noted as being overtaken by events and was noted by TSG SA.

5.2.3 Approval of contributions from SA WG2

408, 409

TD [SP-99387](#): TS 23.107 v2.0.0 (which was previously allocated as 23.907) was presented for approval. [The document was approved and placed under TSG SA Change Control as version 3.0.0.](#)

The following documents were provided to TSG SA for information and were noted:

TD [SP-99389](#): TR 23.923 v.1.0.0, Combined GSM and Mobile IP Mobility Handling in UMTS IP CN

TD [SP-99390](#): TR 30.801 v.1.0.0, Overall Project Plan

TD [SP-99391](#): TR 30.802 v.1.0.0, Project plan on Bearer Services and QoS

TD [SP-99392](#): TR 30.804 v.1.0.0, Project plan on GSM/UMTS Interoperation and Mobility Management

TD [SP-99393](#): TR 30.806 v.1.0.0, Project plan on Location based services

TD [SP-99394](#): TR 30.808 v.1.0.0, Project plan on Packet Architecture and Circuit Architecture

TD [SP-99395](#): TR 30.810 v.1.0.0, Project plan on Security

TD [SP-99396](#): TR 30.812 v.1.0.0, Project plan on Services and Service Platforms

A full list of Change Requests for SA WG2 and their status after the meeting is given in Annex E, section E.2.

Notes on approval of CRs:

TD [SP-99397](#): CRs to 23.060 v.3.0.0, General Packet Radio Service (GPRS); Service description; Stage 2. It was noted that an **impact is expected on the work of CN WG1**. (The CRs were [Approved](#))
[Approved](#)

TD [SP-99400](#): CRs to 23.121 v.3.0.0, Architectural Requirements for Release 1999. The CRs in this list which were approved by SA WG2 were [Approved](#) by TSG SA. (The list contains CRs which had not yet been approved by SA WG2, which were not considered by TSG SA for approval).

The SA WG2 Chairman reported that there were a number of CRs which were not available at the meeting due to problems the previous week with the E-mail reflector, which had made it impossible to have a final SA WG2 approval by e-mail. In order to make the stage 2 ready as quickly as possible, he asked for the possibility of e-mail reflector approval by TSG SA. It was agreed that, due to the urgency, that TSG SA would [conditionally approve](#) the CRs in TD [SP-99485](#), subject to e-mail acceptance by SA WG2. Meaning that the CRs which receive no objection from SA WG2 have received TSG SA approval.

All other CRs presented by SA WG2 were [Approved](#) by TSG SA.

TD [SP-99388](#): TR 23.922 V 1.0.0, Architecture for an all-IP network

This document was presented to TSG SA by the SA WG2 Release 2000 ad-hoc Chairman using the slides from the SA WG2 report TD ([SP-99386](#)).

As a comment to the report, TD [SP-99474](#): Comments on the R00 All-IP TR v 0.1.4, was then introduced by Telia. The document requests, amongst other things, that clear references are made to the supported Release 99 features, as well as a clear list of the features supported for Release 2000. Furthermore, the document suggests that the architecture work is stopped until SA WG1 have established a clear set of requirements for the services and features to be supported.

It was noted that a brief discussion in SA WG1 on the stage 1 had already taken place and TSG SA agreed that the requirements from SA WG1 needed to be completed before the architecture can be completed by SA WG2. However, it was not felt that there was a need to stop the work of SA WG2 fully until the Stage 1 is completed, but simply ask SA WG2 to prioritise assisting SA WG1 in completing the requirements.

As a response to the questions on services supported and the real benefit of the new architecture, it was remarked that TD SP-99283 from the SA#4 meeting gives a description of All-IP networks and service advantages that can be gained.

An Ericsson representative provided the following statement, which was confirmed by TSG SA:

Release 2000 feasibility study status:

- The Release 2000 All-IP feasibility study is completed;
- The Release 2000 All-IP adhoc is dissolved, as originally planned;
- The contents of the feasibility report (TR 23.922) could be used as background material for further work;
- SA WG1 is to continue its evaluation and formulation of service requirements for a "full Release 2000";
- SA WG2 is to elaborate the "full Release 2000" architecture, taking into account the All-IP option;
- SA WG2 is to present a Release 2000 work plan (Work Items, Milestones, document structure, etc.) by the next SA#6 plenary meeting.

In summary, the report of SA WG2 was accepted by TSG SA as sufficient material in terms of a feasibility study, noting that the presented architecture can not yet be considered final. SA WG2 was tasked to continue the work on the release 2000, All-IP architecture and workplan, and with priority to assist SA WG1 to complete their requirements specifications, which need to be completed before the architecture specifications can be considered as complete. **It was stressed that support for Release 1999 terminals and services is seen as an important priority by TSG SA.**

The document TD [SP-99388](#) was noted and SA WG2 thanked for all of their work and progress on the document.

5.3 SA WG3

5.3.1 Report from SA WG3

TD [SP-99426](#): Report from SA WG3 to TSG SA. The SA WG3 Chairman presented the report, given in TD [SP-99480](#). 11 CRs to TS 33.102 and TS 33.105 were presented to TSG SA for approval. TS 33.103 and TR 33.902 were presented to TSG SA for approval (TD [SP-99424](#) and TD [SP-99423](#)).

It was reported that the core network signalling security for INAP over SS7 and GTP security might be moved into Release 2000 as it will not be finalised in time for Release 1999. Security of MAP over IP will be addressed in Release 2000 and detailed specification of security features for this will not be available until Release 2000. There has been some contributions in the area of security for mobile IP. On this background it might be possible to progress this already for Release 1999. For the other areas, SA WG3 is on schedule.

There was some concern over the stability of the approved security documents due to the indication that there might be additional changes caused by implementation. The TSG SA Chairman clarified that even for approved documents which are considered complete, it is likely that some corrective changes will occur as a result of the detailed work, in other groups or by real life implementations. In this case, it means that changes are expected only for corrective reasons and that no additions to the features and functions of the specification can be made.

It was concluded that SA WG3 have completed their work to the extent of their responsibility. It was noted that an overall project plan for security related issues had been provided by TD [SP-99395](#). Delegates were asked to consider this report and concentrate on the critical areas and to contribute to the relevant groups on these areas to speed up the work.

If no input is received by any working group, then the issues will inevitably be postponed. Anyone with concerns about the progress of any work area should ensure that the responsible group receives the necessary contribution and support to complete the work on time.

The Algorithm design has been based on MISTY (but the algorithm is not the MISTY algorithm). It has been decided to use external evaluators for the algorithm and their selection will be done at SA3#7 Meeting based on the advice of ETSI-SAGE. The evaluation period has been set for 15 November to 13 December 1999. This ends just before the December 1999 TSG Meetings, and it is expected that if are any major problems show up they will be signalled before this date. If a problem is found with the algorithm, then it is inevitable that the work will be delayed to allow the problem to be corrected or a new algorithm to be designed. The Authentication mechanism has been submitted to 3GPP2 who are about to select their mechanism from a number of candidates.

It was reported that the approval of the Lawful Interception architecture has been delayed until TSG SA#6 Meeting. More regulator involvement is required in the work of SA WG3, only regulators from UK and Germany are currently represented in the group.

The meeting report of the last two meetings were provided for information in TD [SP-99477](#) and TD [SP-99478](#).

5.3.2 Questions for advice and decisions from SA WG3

No document was allocated to this agenda item.

5.3.3 Approval of contributions from SA WG3

A full list of Change Requests for SA WG3 and their status after the meeting is given in Annex E, section E.3.

Notes on approval of CRs:

TD [SP-99418](#): CRs to 33.105 version 3.0.0. The impact of increasing the ciphering length of the MAC from 24 to 32 was questioned. It was stated that there should be very little if any impact, however, RAN WG2 were asked to look at the messages affected by CR 33.105-002 and check that the critical messages are adequately protected.

All other CRs presented by SA WG3 were [Approved](#) by TSG SA.

TD [SP-99424](#) (replaces TD [SP-99410](#)): TS 33.102 - 3G Security; Integration Guidelines. This TS was presented to TSG SA for approval. [This TS was approved and placed under TSG SA Change Control as version 3.0.0.](#) A typographical error in Figure 1 (at bottom of UE block, DC_{UE} should be DC_{DI}). Other minor changes might be needed. It was agreed that these changes could be done by CRs for the next TSG SA meeting.

TD [SP-99423](#): TR 33.902 v0.1.0 - Formal Analysis of the 3G Authentication Protocol with Modified Sequence number Management. This was originally presented for information, due to lack of time to change the order of clauses editorially. But this was reconsidered as the information was already stable and found very useful for others outside SA WG3. Therefore the report was suggested to be approved noting that changes are expected for the next meeting of TSG SA. [The document was approved and placed under TSG SA Change Control as version 3.0.0.](#)

TD [SP-99425](#): Draft LS to TIA TR-45 AHAG on 3GPP authentication mechanism as a candidate for ESA. It was noted that Vodafone Airtouch had proposed the 3GPP authentication mechanism to be used by 3GPP and that this was supported by SA WG3 as it would simplify network interworking and roaming across the systems developed by 3GPP and 3GPP2. Based on this argument, the draft liaison statement indicating TSG SA support for the proposal had been drafted. The liaison statement was [approved by TSG SA](#) and will be sent TIA TR45 AHAG.

Finally, it was noted that the All-IP security aspects have not yet been studied by SA WG3 and contributions and support relating to this will be welcomed by the group.

5.4 SA WG4

5.4.1 Report from SA WG4

TD [SP-99363](#): The SA WG4 Chairman presented the status report given in TD [SP-99363](#). TS 26.094 v. 2.0.0 was presented for Approval, in TD [SP-99353](#). TS 26.073 v 1.0.0 and TS 26.101 v. 1.4.0 were presented for information, in TD [SP-99355](#) and TD [SP-99356](#). A Work Item description for the Wideband Codec was presented for approval, in TD [SP-99354](#). CRs to TS 26.911 and 26.111 were presented for approval in TD [SP-99357](#), TD [SP-99358](#) and TD [SP-99259](#).

SA WG4 informed TSG SA that the joint SA WG1, SA WG2, CN WG1, CN WG2 meeting on Multimedia had reviewed the content of the proposed specification on Call set-up Requirements for Circuit Switched Multimedia Telephony Service (TS 26.112) and had suggested to give CN WG3 the responsibility of the content of this specification, e.g., by including it in the existing Core Network specifications. As a result, this specification will be deleted from the list of SA WG4 deliverables.

The AMR Speech Codec is expected to be ready for Release 1999 and approved at the TSG SA #6 meeting, except for the Characterisation Phase Test Report, which should be ready for approval at the TSG SA #7 Meeting.

5.4.2 Questions for advice and decisions from SA WG4

No document was allocated to this agenda item.

5.4.3 Approval of contributions from SA WG4

Specifications presented for approval:

TD [SP-99353](#): TS 26.094 v. 2.0.0 - AMR speech codec; Voice Activity Detector (VAD). [This specification was approved and placed under TSG SA Change Control as version 3.0.0.](#)

Specifications presented for information:

TD [SP-99355](#): TS 26.073 v 1.0.0 ANSI-C code for the AMR speech codec. This was provided for information and the document was noted. Noting that the document contained the ANSI C-code, which in the ETSI document is protected by a copyright statement, it was questioned if a similar copyright statement would be applied to the cover page of the 3GPP specifications. MCC reported that there had been discussions with Lawyers on this issue and that a copyright statement will be added to all documents on the server. The copyright statement as it will appear on 3GPP documents in the future was displayed on the screen in the meeting room for delegates to check.

TD [SP-99356](#): Updated version of TS 26.101 (v. 1.4.0): "Mandatory Speech Codec speech processing functions; AMR Speech Codec Frame Structure". The document was presented for information and noted.

A full list of Change Requests for SA WG4 and their status after the meeting is given in Annex E, section E.4.

All CRs presented by SA WG4 were [Approved](#) by TSG SA.

WIs presented for approval:

TD [SP-99354](#): A WI description for the Wideband Codec. This WI has been updated from the similar WI agreed earlier in ETSI SMG and was presented to TSG SA for approval. [The revised WI description was approved.](#)

5.5 SA WG5

5.5.1 Report from SA WG5

TD [SP-99380](#): Summary Report of SA WG5 Activities. The SA WG5 Chairman presented his report to TSG SA. SA WG5 presented 2 CRs to GSM 12.15 v 7.2.1 for approval (TD [SP-99381](#)), and 3G TS 32.104 V1.0.0, 3G TS 32.106 V1.0.0 and 3G TS 32.111 V1.0.0 for information (TD [SP-99382](#) TD [SP-99383](#) and TD [SP-99384](#)).

The TSG SA Chairman indicated that the planning for SA WG5 Meeting #8 was considered unacceptable as it overlaps with part of the TSG SA Meeting and even if reduced by 1 day is too close to the TSG SA meeting. As meetings in the days leading up to a TSG meeting does not leave the support team enough time to prepare the inputs to TSG SA from the meeting. SA WG5 were requested to move the meeting. This view was supported by TSG CN Chairman, who reported that a 1-week rule is in force in TSG CN to allow delegates time to check CRs before the presentation to the TSG and for the support team to prepare the material. The SA WG5 Chairmen undertook to change the meeting date.

5.5.2 Questions for advice and decisions from SA WG5

SA WG5 asked TSG SA to give direction on the following question:

SA WG5 outputs of the charging information and management information model specification work for the 3G under the existing SA WG5 Work Items: Should those SA WG5 specifications (to come in 2000) be considered as a part of Release-99 or Release-2000?

Those outputs, although delivered in 2000 due to the normal "O&M standards delay", will be based on the Release-99 package. For the sake of a logical synchronisation, SA WG5 wishes them to be considered as a part of Release-99.

It was considered reasonable to allow the O&M specifications to be part of Release 1999 even if their delivery date is later than December 1999, this was already decided at TSG SA#04.

It was questioned whether some of the specifications elaborated by SA WG5 should be forwarded to ITU as a part of the overall package for IMT-2000. After some discussion on the relevance of the documents in relation to ITU-R (Radio Interface only or more wide-ranged), it was decided that there was no need to forward the SA WG5 documents to ITU-R for the time being.

TD [SP-99484](#): Liaison to TSG SA "Liaisons between SA WG5 and the TMF". TSG SA noted that SA WG5 requested to liaise with TMF and requested that in the future such questions are dealt with by simple communication between Chairmen, rather than requesting the approval at the SA Plenary.

SA WG5 asked about the Charging requirements for Release 1999. Representatives of the GSM Association responded that the GSM Associations 3GPP Working Party are working on the issue and that the Chairman of this group is aware of the timing of SA WG5 charging documents. The GSM Association representatives present at the meeting suggested that SA WG5 should seek active co-ordination with the BARG group in the GSM Association, and the BARG group will be asked to contribute to the work on Charging in SA WG5. It was noted that SA WG5 can expect that the GSM Association will forward their requirements to SA WG5.

5.5.3 Approval of contributions from SA WG5

CRs presented for Approval:

A full list of Change Requests for SA WG5 and their status after the meeting is given in Annex E, section E.5.

All CRs presented by SA WG5 were [Approved](#) by TSG SA.

Specifications presented for Information:

TSG SA were requested to take note of the following documents.

TD [SP-99382](#): 3G TS 32.104 V1.0.0. This was noted by TSG SA. It was also noted that this specification is planned to be presented to SA#6 for approval.

TD [SP-99383](#): 3G TS 32.106 V1.0.0. This was noted by TSG SA. It was also noted that this specification is planned to be presented to SA#6 for approval, but may be delayed to TSG SA#7.

TD [SP-99384](#): 3G TS 32.111 V1.0.0. This was noted by TSG SA. It was also noted that this specification is planned to be presented to SA#6 for approval, but that there is some risk that it may be delayed to TSG SA#7.

5.6 Review of TSG SA work programme (including Release 2000 planning)

This was dealt with during the presentations of SA WG2 and other WGs.

5.7 Letters to other groups

There were no contributions under this agenda item.

5.8 Other issues

There were no contributions under this agenda item.

6 Technical co-ordination with TSG CN, TSG RAN and TSG T

6.1 TSG CN

6.1.1 Report from TSG CN

TD [SP-99462](#): Report from TSG CN to TSG SA. The report from TSG CN to TSG SA was presented by the TSG CN Chairman (Presentation slides in TD [SP-99461](#)).

TSG CN have tentatively reserved the 1st week of February 2000 for a kick-off meeting on IP activities.

There are still a large number of GPRS CRs and confirmation on the request to freeze these specifications is given in TD [SP-99413](#). TSG CN believes that the removal of LLC has consequences on GSM-UMTS Handover if different ciphering algorithms are used. The concerned groups (SA WG3 and TSG RAN) have been contacted.

TSG CN have completed the Pre-Paging work and non-CAMEL IST for release 1999. CAMEL Phase 3 Scope has been reduced and this has been communicated to SA WG1 (TSG CN document NP-99255).

A new WI for a Feasibility Study on CAMEL control of Voice over IP services (Release 2000, NP-99287) has been approved.

The Feasibility Study on Out-of-Band Transcoder -Control has been completed (NP-99288). TSG CN decided to go for an implementation along the lines of Alternative 4, based on ITU-T BICC protocol. This is still to be specified.

The high density of WG meetings was noted. The additional support received from the MCC Support Team since the last TSG meetings has been appreciated by all WGs.

TSG CN request information from SA WG1 on work related to SIM Toolkit initiated transactions. CN WG1 are stuck due to the lack of guidance in this area and SA WG1 are requested to provide information. SA WG1 were asked to check the requirements and report to CN WG2.

6.1.2 Questions for discussion in TSG SA

TD [SP-99466](#): Liaison to TSG SA on information flow improvement towards TSG CN. The resources of TSG CN are stretched due to the large frequency of meetings and cross-group reporting is difficult. This contribution proposes that the relevant SA working groups (SA WG1, SA WG2 and maybe SA WG3) ensures that liaison persons are present and provide reports and background for liaison statements to TSG CN meetings.

The TSG SA Chairman commented that there are many meetings of the working groups in all TSGs. It is becoming critical to ensure that unnecessary liaison statements should be minimised, using another communication channel instead. The MCC Support Team is asked to facilitate this by internal information exchange about the status of the work in the other groups. Issues affecting other groups should be brought to the attention of those groups, without awaiting the next meeting of the TSGs.

This was endorsed by the TSG RAN Vice Chairman, who added that internal company communication was also an important option for reducing the liaisons issued to meetings.

SA WG2 Chairman reported that somebody would be made available for attendance to the TSG CN meetings and effectively form a liaison between the groups.

It was summarised that persons providing explanations of the problems or issues of one group to another is always welcomed, and should be aimed for in the case of more substantial matters. Generally, the MCC staff, delegates, or e-mail should be used to inform groups of issues arising instead of waiting for groups to meet.

TD [SP-99465](#): TSG CN Chairman's letter to TSG SA and SA WG2: Ownership of GPRS stage2 specification (GSM 03.60 and 3G TS 23.060). TSG SA was invited to consider:

- *The specification responsibility for GSM 03.60 and TS 23.060 have to be kept together in one group.*
- *SA WG2 is responsible for both specifications.*

The TSG CN working groups are willing to assist SA WG2 by refining the more detailed part of the specifications, i.e. to be subcontracted.

It is recommended that SA WG2 produces along a table of contents, a "section specific responsibility list" to prevent further "competence/responsibility conflicts".

TSG CN is informed that TS 23.060 might have undergone severe modifications on the recent ad-hoc meeting. This may have consequences for work on specifications in TSG CN domain for Release 1999. But since TS 23.060 now seems to be under modification anyhow SA WG2 may consider either to split the specification in two distinct parts or two separate specifications to cater for future clean responsibility allocation.

The meeting emphasised that the R98 and R99 work areas should remain in one group and not split across the groups. Therefore it was decided that GSM 03.60 and TS 23.060 shall be the responsibility of SA WG2 co-ordinating with TSG CN on necessary items.

TD [SP-99467](#): Draft ToR for ITU-T ad-hoc group. TSG CN have agreed to create an ad-hoc group for consideration of the ITU-T work in IMT 2000. This gives 3GPP a link to both ITU-T and ITU-R (with the RAN ITU-R ad-hoc group). TSG CN asked TSG SA to endorse the following:

- The need for the ITU-T Ad-hoc activities.
- The draft Terms of Reference for the ITU-T Ad-hoc Group.

- To support the assignment of this ITU-T Ad-hoc Group to TSG CN.

From the comments made, it was noted that TSG T, TSG RAN, and TSG SA are also dealing with matters of relevance to ITU-T. The TSG SA Chairman commented that it seemed a good idea to create the suggested group, but that the group would have to deal with all 3GPP matters related to ITU-T to avoid conflicting positions towards ITU-T.

It was agreed to set up the ITU-T ad-hoc group. It was decided that the group should report to TSG CN for practical issues, and to TSG SA for more policy and strategic matters. Furthermore, it was requested that the relevant working groups of the different TSGs appoint a contact-person for the ITU-T ad-hoc group. There were some concerns over some points of the draft Terms of Reference and a revised version was provided in TD [SP-99492](#). Delegates were invited to provide comments to TSG CN on the proposed terms of reference. Final approval will be made at the next round of TSG meetings.

TD [SP-99471](#): Handling of GSM only specifications. This document is a proposal from TSG CN to adopt the approach for the adoption of Change Requests, given in TSG CN document NP-99251. TSG CN are willing to accept the responsibility for the maintenance of GSM Specifications in the domain of ETSI SMG3, which are not common GSM/3G specifications.

It was noted that to accept this would require a change to the Scope of 3GPP, and should therefore be raised to the PCG and to the Partner Organisations. From the comments made, TSG SA saw no major problem with the idea, if the Partner Organisations accept to take on the work in 3GPP. It was agreed to forward this to the PCG for decision.

6.1.3 Information on status and changes to deliverables

TD [SP-99463](#): List of Specifications under the responsibility of TSG CN. This document outlines the status of the TSG CN documents and was noted by TSG SA.

TD [SP-99464](#): TSG CN Work Item Status List. TSG CN have made an assessment of the maturity of documents for Release 1999 inclusion. This is provided for consideration in the discussions about the content of Release 1999.

6.2 Report from TSG RAN

6.2.1 Report from TSG RAN

TD [SP-99460](#): Status Report on RAN#5. The TSG RAN Chairman presented his report to TSG SA.

The TSG RAN Chairman reported that for the RAN WG4 the categorisation as not for Release 99 of the open issue "Coexistence with GSM900 and DCS1800" had provoked several objections in TSG RAN and will be discussed further within TSG RAN.

The rapid progress on the Hooks and Extensions was noted.

The T WG2 Chairman indicated that terminology SMS Cell Broadcast (SMSCB) as used by RAN WG2 had already been changed by ETSI SMG4 some years ago to "Cell Broadcast Service (CBS)" and T WG2 are using this terminology. The comment was noted and it was agreed that only one term should be used and the RAN WG2 and T WG2 Chairmen were asked to ensure the alignment between the two groups.

The TSG RAN Chairman gave an explanation of the items considered as not complete for Release 1999, but important features for Release 1999 were given. He explained the philosophy that the important features for Release 1999 would be included in the release, but some of the work items would not, due to the work load, be finalised until March 2000, but would then be included in the Release 1999 specification set. A list of these items is included in Attachment 1 of TD [SP-99460](#). The reason for this approach is to minimise the delay of the completion of the work by targeting these items for a realistic completion date (RAN #7 meeting). It was noted that the full content of Release 1999 would become clear when the Release status forms are completed by each TSG for the TSG SA #6 meeting.

TDD work has been progressed and the proposal from CWTS taken into account. This work is considered as important towards the Harmonisation between 3G systems. The TSG RAN Chairman encouraged delegates to help the CWTS delegates to attend their meetings, by providing the hosting information in good time to allow the necessary Visas and permits to be obtained. The TSG SA Chairman reminded the meeting that the fact that some delegates need Visas to participate in meetings should be kept in mind and information of meeting venues should be provide as early as possible. It would also be very helpful if hosts could assist the delegates with appropriate information/assistance to obtain Visas.

It was reported that the intention of TSG RAN is to complete all essential Release 1999 items by December 1999.

6.2.2 Questions for discussion in TSG SA

TD [SP-99377](#): LS on the simultaneous connection of the UTRAN to two Core Networks. This liaison was received from RAN WG2. RAN WG2 would like guidance as to whether a UTRAN should be able to simultaneously support two Core Networks types (e.g. GSM MAP and ANSI-41)?

The SA WG1 Chairman stated that this was not a requirement for Release 1999, but may be a requirement for the Release 2000 work. It was further noted that there should be the flexibility to allow connection in different Core Networks in the future, which would require ongoing checks of the development of the specifications to ensure this is not excluded by developments.

In summary, the response from TSG SA to this question is "Yes", recognising that this is not a Release 1999 requirement, but such a requirement can be foreseen and the specifications should be left open to allow this possibility. Delegates are requested to make regular checks and contributions to ensure that the option is kept in the specifications.

6.2.3 Information on status and changes to deliverables

Information on status and changes to deliverables was provided as a part of the report given by the TSG RAN Chairman in TD [SP-99460](#).

6.3 Report from TSG T

6.3.1 Report from TSG T

TD [SP-99476](#): The TSG T Chairman presented his report to TSG SA using the presentation contained in TD [SP-99475](#).

TSG T suggest that the term "mandatory" in testing specifications should be replaced with the "core" specification. This caused some comments and questions from the TSG SA delegates. It was suggested that these comments are made directly to TSG T, as they consider this to be the best solution. In general, TSG T believes the term "mandatory" should be avoided in test specifications and should only be used for regulatory mandates.

It was noted that the combination of the 3GPP Radio and 3GPP2 Core Network is for the time being not considered by TSG T, and might need some further investigation, if such test specifications are to be developed in the future. It was noted that the issue of terminal testing was covered by the OHG proposal received at the TSG SA#4 meeting.

TSG T reported that the issue of audio testing for regulatory type approval testing and future codec testing is subject for discussion with the ETSI STQ meeting (October 18 1999).

TSG T endorsed the T WG2 decision that 3GPP should not produce any technical specifications for a physical interface from the terminal to other devices, except for the Radio and USIM interfaces. This position was not supported by TIM, who believe that there should be a standardised physical interface from UMTS terminals to other devices.

It was noted that, as usual, all members have the right to raise the issue again in T WG2. It was clarified that the presentation slides on this issue only reflect the work area of T WG2.

TSG T inform TSG SA that there is an interaction with PLMN selection in draft report TR 21.910. TSG SA delegates are invited to review this report and to participate in the Workshop proposed by T WG2. A number of comments to the content of the report on multi-mode and system terminals was made. TSG SA noted that this work is ongoing and that the report covers a number of cross TSG issues. Further, the concern of the quality of the current content of report was noted. After some off-line discussions, it was agreed that RAN WG2 would ensure that an input document containing comments and proposals for improvement of the report will be provided to the T WG2 Chairman via e-mail as soon as possible, for further study in T WG2. T WG2 should then review the report based on the comments received and forward the resulting version of the report to SA WG2 for further consideration and review.

TSG T informed TSG SA that there had been some discussion on the need for a specifying a linkage of the maximum output power parameter with the type of terminal usage (e.g. hand-held). However, no consensus had been reached on the matter in TSG T. There were a few comments made, indicating an interest in knowing what the most likely power classes would be in practice when different requirements on the terminal, such as maximum output power and SAR is considered. Operators would need to take this into account when planning their networks.

T WG2 have agreed to be responsible for Terminal Management. The views of TSG SA were invited. The SA WG5 Chairman reported that the management model needs to be carefully designed and that SA WG5 has the expertise on building the management model. SA WG5 suggest that T WG2 should be responsible for the work but should co-operate with SA WG5 on the overall management model issues. [TSG SA agreed this suggestion.](#)

It was reported that TSG T had approved a new work item on USIM Application Toolkit as a part of Release 1999 with March 2000 as the completion date.

The report was concluded by a very detailed overview of the maturity of TSG T work items, the overview tables clearly indicated the planned content of Release 1999 and when finalisation is expected.

The TSG T Chairman requested that support for their work is provided by any means possible in order to allow the maximum progress before TSG T#6 meeting, especially in the areas in danger of not being completed for TSG T#06.

6.3.2 Questions for discussion in TSG SA

TD [SP-99419](#): Liaison Statement from TSG T on how to handle approval of MS Conformance Test Specifications coupled to a certain 3GPP release. The liaison statement suggested that test specifications can be delayed relative to the base standards, as they need to be based on the core specifications elaborated by other groups. Further, it suggested that despite the delay relative to the rest of the specifications, the test specifications are kept as part of the Release 1999 package. TSG SA confirmed the principle of the inclusion of particular specifications in the Release set even if they are not ready for the Release deadline. However, it was clearly indicated that any delay should be sought to be minimised.

TD [SP-99458](#): This was dealt with under Agenda Item 4.1.

TD [SP-99420](#): This was dealt with under Agenda Item 4.1.

TD [SP-99407](#): This has been superseded by other discussions on terminology (see TD [SP-99493](#)).

TD [SP-99493](#): Proposal for UE definition and handling of the GSM references. This proposes that:

- The definition of UE, comprising the text and both figures given in TD [SP-99493](#), should be included in TR 25.990.
- The sentence explaining the relationship to GSM should be included in all relevant specifications.
- In 3GPP specifications the term MS shall be replaced by the term UE or any of the other relevant abbreviations as specified in the definition of UE given in TD [SP-99493](#). This can be implemented gradually.

This proposal was accepted and it was noted that "agreeable" proposals for improvement of the definition can be accepted by TSG SA in the future. [The proposal was approved.](#)

6.3.3 Information on status and changes to deliverables

TSG T had created a list of it's work items which they consider will be included in Release 1999. This list was provided as a part of the report from TSG T to TSG SA (TD [SP-99475](#) and TD [SP-99476](#)).

It was clarified that the dates, given in slide 19 of the presentation "Expected qualification for R99 in Dec '99", is the target dates for version 3.0.0 as before the TSG T#5 meeting. This has now been updated to take into account the potential delay (but are still in the same category for Release 1999 planning).

Concern was expressed over the non-inclusion of USIM Application Toolkit and requested that a first release of the USIM Toolkit be included in December 1999. The T WG3 Chairman responded that although the group has been working very hard it has not been possible to complete the work for inclusion in Release 1999 in December 1999. It was stated that it may be possible to complete the work in time for December 1999, and if this is done, there is no reason why it should not be in Release 1999 in the set of specifications released in December 1999. It was noted, that T WG3 will attempt to identify everything needed for finalisation and then they will decide whether or not it can be completed by the end of 1999.

It is expected that the final list of Release 1999 status tables will be presented to TSG SA in TSG SA#6 by each of the TSGs as well as from the TSG SA WGs.

6.4 Letters to others groups

TD [SP-99490](#): 3GPP Radio Interface Specifications (Section 5.x.3). The TSG SA Vice Chairman presented the document which proposes a contribution to be sent to Task Group 8/1 by October 15. It is also proposed to send the contribution to all Organisational Partners and to ask them to fill in the tables with the relevant references and to forward it to ITU-R TG 8/1 in time for the opening of the meeting.

The method proposed, had already been agreed by TSG RAN as a way of referencing the 3GPP material. It was clarified, that the TSG SA contributions are only intended to contain items related to the Radio interface.

The proposed list of 3GPP specifications related to IMT-2000 Radio Interface Specifications were considered and [it was agreed to approve this contribution](#) and to forward it with the equivalent contribution from TSG RAN. The RAN ITU Ad-hoc group Chairman would be asked to handle the forwarding of this.

TD [SP-99491](#): Proposed position to "Supplement to Recommendation Q.1701" from ITU-T SG XI WP 3/11. This proposes a liaison to ITU-T on their future role in the IMT-2000 work, to act as a guiding body for the family members of IMT-2000. The meeting supported this as being the position of 3GPP TSG SA and the members were invited to base contributions to ITU-T on this position paper. Further it was noted that TSG CN would need to consider this position paper in their work.

6.5 Content of October specification set

TD [SP-99489](#): Draft status list for October 1999. All delegates are encouraged to make comments by 20 October 1999 in order to allow it to be included in the TSG SA Meeting report.

6.6 Release 1999

TD [SP-99468](#): Definition and completion of Release 1999: The TSG SA Chairman presented the proposal from the TSG Chairmen on the handling of the completion of Release 1999. TD [SP-99468](#) describes the proposal in textual form and provides a form to be filled in by the TSGs for each work item. The key elements of the proposal are listed below:

Definition of Release 1999

- R99 is a consistent set of Specifications targeted for finalisation in December 1999.
- R99 identified by a major version 3.x.y
- R00 identified by a major version 4.x.y

Completion of Release 1999

- R99 Specifications will be functionally frozen at TSG#6.
- No further functionality/feature incorporated into the set of specifications.
- Corrective CRs are allowed and will continue to be introduced into the R99 version 3.x.y.

Completion of Release 1999

- Some R99 Specifications may not be completely stable at TSG#6
- Specifications belong to R99 and will become version 3.x.y

Non-completed Release 1999 work

- In principle, incomplete Release 1999 work should be reallocated to Release 2000

Completion of Release 1999

- Exceptionally, if the functionality of the late work is essential:
- TSGs permit CRs introducing the functionality to R99 after TSG#6.
- Progress and its continued applicability to R99 should be reviewed at every following TSG meeting.

Identification of Incomplete work at TSG#6

- Work area/Item:
- Affects : UE/MS: CN: UTRAN:
- Compatibility issues:
- Expected completion date:
- Services impacted:
- Specifications affected:
- Tasks within work which are not complete:
- Consequences if not included in R99:

The proposal for handling of [freezing and completion of Release 1999 was approved by TSG SA](#) (noting that the version number given in the document is only intended as an example).

The TSGs are expected to agree independently the items included in or excluded from Release 1999. This will be forwarded to TSG SA in order to allow TSG SA to co-ordinate the content of Release 1999 and finally define the overall Release 1999 package (avoiding conflicting content between the items in each TSG).

6.7 Release 2000 and beyond

TD [SP-99373](#): GSM Radio work co-ordination for Release 2000 and beyond. This contribution highlights the current situation of development of 3GPP and GSM Radio related specifications, and perceives a co-ordination and consistency problem with the separate working of the related groups. Some proposals for potential solutions are proposed:

Enhance current organization

- *Joint meetings of SMG radio-related STC's (primarily SMG2 and its work groups) with 3GPP TSG's*
- *Co-ordination groups to assure that the GSM radio access matters are fully considered*
- *Joint Release and WI planning between 3GPP TSG SA and SMG radio-related STC's (SMG2 and others), under the lead of 3GPP TSG SA.*
- *Consider further consolidation or practical joint operation of SMG STC's with 3GPP TSG's*

Change organization

Include GSM radio access in the Terms of Reference of 3GPP TSG's.

- *This would effectively move the work of SMG2 and other radio-related STC's into 3GPP.*
- *Organization within 3GPP should be considered. One option is formation of a new GSM RAN TSG.*
- *Handling of maintenance activities as distinct from development activities should be considered.*

The TSG SA Chairman commented that it could be noted that the Release 2000 work is already closely co-ordinated. SA WG2 have been given the role of specifying the architecture, taking into account that the core network is common for UTRAN and the GSM/EDGE RAN. There are already examples of joint meetings between 3GPP groups and ETSI SMG2 for cases where close co-operation is required. There is a common Support Team for the two systems (MCC), and the TSG SA Chairman believes that we already have a common work planning for the systems. It was also pointed out that a Change to the Scope of 3GPP is outside the scope of the TSGs, and in this case requires agreement of both ETSI (for GSM) and PCG/Partner Organisations (for TSG Scope changes). These comments were agreed by the contributors, but explained that it was considered necessary to inform TSG SA of their ideas and ask delegates to take them back to their companies for further consideration.

It was concluded that TSG SA cannot consider the change of Scope of the project, but that the co-ordination of services and architectures between the 3GPP groups and the ETSI SMG groups should be considered by SA WG1 and SA WG2 as they are tasked to define these in common for both systems. Requests to change the work of ETSI SMG should go to ETSI management bodies, and for the change of Scope of 3GPP to the PCG and Partner Organisations for consideration.

TD [SP-99411](#): This was discussed under Agenda Item 5.2.

TD [SP-99412](#): Purposes and documentation of Release 2000. This contribution asks for clarification on how different 3GPP Releases will be identified. The contribution provides a proposal for the identification: For Annual Releases, to produce a document listing all specifications and Reports defining the Release. It suggests that release 1999 specifications will be numbered version 3.x.y, Release 2000 as version 4.x.y, etc. It further states that Release 2000 shall be a superset of Release 1999, containing all of these specifications and Reports.

It was commented that it may not be possible to include all Release 1999 features in an All-IP option Release 2000 network, due to the changes necessary for All-IP. It was clarified that the France Telecom proposal intended to get clarification of the identification of 3GPP Releases.

A comment was made that the backward compatibility problems experienced in Phase 1 / Phase 2 of GSM should not be repeated in 3GPP.

TSG SA considered the principles of the contribution in turn:

- 1) *For each annual releases, a document shall contain the list of all specifications and reports defining this release. ...*

This has already been accepted by TSG SA.

Moreover an architecture document shall describe the global architecture, ...

A common architecture description is the responsibility of SA WG2 and TSG SA take note of this request.

The specification 22.100 contains all the service requirements for Release 99, a similar document shall state the service requirements for Release 2000.

There are already plans to keep this type of documentation listing the content of Release 2000. It was noted that there is a desire to have a clear record of the content of planned Releases.

- 2) *Today the Release 99 specifications are allocated version numbers the general format of which is 3.x.y.*

This has been discussed already, and will be subject to a proposal from MCC, who need to handle the specifications. It was agreed that a clear indication of which Release a document belongs to is required.

- 3) *Additional features to add to Release 1999 will become part of Release 2000 and upgrade the version number to version 4.x.y*

This is subject to MCC proposals, but is considered likely result.

- 4) *Generally all the specifications of Release 99 shall be part of Release 2000.*

This is generally expected, but it is not ruled out that Release 2000 can delete some features (although unlikely).

- 5) *The previous rules imply that the specifications of Release 2000 will be in some ways a superset of Release 1999 specifications.*

This is the expected content of the Releases, and will be taken into account by SA WG1 and SA WG2 in their definition of the Service requirements and Architecture for each Release.

Further comments were received requesting early knowledge of the content of Release 2000 and for prioritisation of the Features in order to allow good planning of the work.

TD [SP-99427](#): Cross border co-ordination and inter-network soft handover. This contribution outlines problems with cross border co-ordination and handover.

The principle of creating such a work item for Release 2000, to outline the requirements and evaluate the feasibility of different solutions was agreed. More study on the requirements and a work item should be created to develop the requirements and solutions.

TD [SP-99474](#) (revision of TD [SP-99459](#)): This had been dealt with under agenda item 5.2.3. See the summary of the discussions under agenda item 5.2.3.

TD [SP-99482](#): Call for Global Unification of IP Network Standardisation for the Wireless Industry. This contribution from Vodafone/Airtouch outlines the developments within the 3G.IP Consortium on All-IP network requirements. Further, it asks for a unification of the New Generation Networks to be developed in 3GPP and 3GPP2.

It was noted that the level of co-operation with 3GPP2 suggested by this contribution, is clearly outside the current mandate for TSG SA. Therefore TSG SA could not take a formal position, but the originator would have to raise this to the PCG and the Partner Organisations for consideration. The contribution was noted, as well as the concern expressed on the potential delay on the current work if such an undertaking was made, and a contrary view, that it could be advantageous to have unified packet-based calls.

6.8 Other issues

TD [SP-99369](#): Maintenance of earlier releases of 2G GSM versions of specifications. This contribution was provided by MCC for information on the procedures to be proposed to SMG. The document was noted.

The TSG SA Chairman summarised that the Project seemed to be moving ahead with great progress in the 9 months of its existence. Hard decisions are expected to be made at TSG #6 meetings on the handling of the items which are not on target at that time.

7 Project Management

7.1 Review of work programme

TD [SP-99374](#): 3GPP Programme Management for R99 and R2000. BT propose that each TSG discusses and provides a summary (as part of each TSG Chairman's report) to SA#5 of the status of all deliverables to the best of our knowledge at this time. This should be issued by SA#5 in a compiled form (i.e. a single document).

The first requirement had been fulfilled by the TSGs who had provided information of current status and targets. MCC agreed to compile this information into the status lists produced after the TSG meetings, but will rely upon the information coming from the TSGs and WGs.

A full set of this information is expected at TSG#6 meeting, and time is needed by the TSGs to compile such a detailed list.

It was agreed to wait until TSG SA#6 meeting to have this output document, taking into account that there is much work to be done until then and this should not delay the work up until then. Comments to the status list will be used to give an interim list this time.

TD [SP-99488](#): Global Roadmap for UMTS and GSM. This contribution outlines the features of GSM and UMTS classified by their status and was provided for information. Each group is asked how to classify the 3GPP items and forward comments to MCC.

Comments on the content should be forwarded to Alain Sultan, MCC <mailto:alain.sultan@etsi.fr>. MCC are asked to forward this to all groups for information.

7.2 Handling of October specification set

As for the previous specification sets (June, April 1999) MCC will make a directory available on the ftp server containing the full set of specifications at their approval status after the October 1999 meeting. The usual request for latest drafts of all specifications was made as these are proving difficult to obtain. Chairmen are asked to forward this request down through their groups' organisation, to the rapporteurs and editors.

7.3 Working methods

General:

The TSG SA Chairman requested that any specifications for approval submitted to TSG SA have a cover sheet with a short introduction of the content of the document and a clear list of open issues in the document. Furthermore, as more and more CRs are being produced, delegates who intend to object to a CR are requested inform the Secretary of the WG (MCC Support person) in order to allow these CRs to be separated out from the non-contentious CRs. In order to assist the delegates to prepare such information, the documents should be made available in good time before the meetings.

The TSG SA Chairman commented that we have made good progress up to this meeting. Delegates are requested to continue with this hard work to ensure the success of the project.

Contributions:

TD [SP-99487](#): Model for Technical project co-ordination and management. The TSG SA Chairman presented a plan for management of 3GPP work items.

The ideas of managing the work items using features and building blocks with recorded links between them was generally well received. It was added that MCC could not be expected to identify the level or interactions of the work items currently created and this is a task for SA WG2. It was considered necessary to have very good visibility at the high level. The model had been designed to be simple to allow all members working on the 3GPP project to be aware and understand the model existence.

TSG SA was asked to produce an example of the use of the model using a relatively simple feature, in order to demonstrate the model at all 3GPP working levels. It was recognised that commitment is required from all groups to make the model work.

This model is intended for use for Release 2000 work, so it is intended to start using the model as soon as possible, in order not to have to fit too many existing items into the model. The intention is to create future work items with the position in the model already considered.

It was accepted to try to use the model and to implement it as soon as possible. An example is considered necessary and TSG SA Chairman and SA WG2 Chairman will co-operate to produce a simple example.

MCC were asked to provide a Change Request to the Working Methods document containing an elaboration of this model.

7.4 Other issues

There were no contributions to this Agenda Item.

8 Project support

TD [SP-99365](#): 3GPP Specification 21.101 version 1.0.0. MCC introduced this document which is considered 60% stable and will be input for approval to the TSG SA#6 meeting. TSG SA is invited to assume responsibility for this Specification.

Everyone is asked to review this document and forward comments to MCC for inclusion before the next TSG SA Meeting.

TD [SP-99366](#): GSM Specification 01.01 version 0.4.0. This was provided as an example of the equivalent to TD [SP-99365](#) in ETSI SMG.

TD [SP-99364](#): Report of Support Team activities. A Scrase, MCC, presented the report of the activities of MCC since the last TSG SA Meeting.

TSG SA were asked to consider agreeing some voluntary guidelines on the length of a working day for 3GPP meetings. TSG SA agreed that a 10 hour maximum meeting days should be taken as a **guideline**.

The SA WG4 Chairman questioned the Task funding for AMR characterisation. He added that work needs to start the preparation for this. It was clarified that the preparation could still go ahead but the actual work requiring funding should not start until the funding is confirmed.

TSG and WG Chairmen are asked to forward publicity material and news items to MCC.

There was a request for the replacement of paper copies with CD production. Some delegates requested a quicker distribution of the CD-ROMs during the meeting. It was explained that CD production was more time-consuming than LAN and that the request for faster distribution of CDs would be noted.

It was decided that any documents used by the 3GPP TSGs and WGs should be available on the 3GPP FTP server.

TD [SP-99379](#): "New ASN.1 Syntax Checking Service from PTCC", was provided for information.

TD [SP-99428](#): CR003 to 21.900: "Working Methods".
[Approved](#).

9 Postponed issues from earlier in the meeting

These are covered under their relevant agenda items.

10 Workplan and future meetings

Next meeting of TSG SA: 15 - 17 December 1999, Nice, France. The meeting is expected to start at 13.00 Wednesday 15 December and run late on the evenings and end late in the afternoon on the Friday 17 December (20.00 finish).

A summary of the future meeting dates are given below:

TSG	No.	Date	Venue	Host
CN	#6	13-15 December 1999	Nice, France	ETSI
RAN	#6	13-15 December 1999	Nice, France	ETSI
T	#6	13-15 December 1999	Nice, France	ETSI
SA	#6	15-17 December 1999	Nice, France	ETSI
CN	#7	13-15 March 2000	Madrid, Spain	Telefonica
RAN	#7	13-15 March 2000	Madrid, Spain	Telefonica
T	#7	13-15 March 2000	Madrid, Spain	Telefonica
SA	#7	15-17 March 2000	Madrid, Spain	Telefonica
CN	#8	05-07 June 2000	Germany	Mannesmann
RAN	#8	05-07 June 2000	Germany	Mannesmann
T	#8	05-07 June 2000	Germany	Mannesmann
SA	#8	07-09 June 2000	Germany	Mannesmann
CN	#9	25-27 September 2000		
RAN	#9	25-27 September 2000	Data to be provided	
T	#9	25-27 September 2000		
SA	#9	27-29 September 2000		
CN	#10	11-13 December 2000		
RAN	#10	11-13 December 2000	Data to be provided	
T	#10	11-13 December 2000		
SA	#10	13-15 December 2000		

11 Any other business

A poll on the electronic working habits of delegates was made with the following (approximate) results:

- Delegates using LAN only at the meeting = 50
- Delegates using CD-ROM only at the meeting = 60-63
- Delegates who would not use a LAN, if provided at TSG SA meetings = 17
- Delegates who would not use CD-ROM, if provided at TSG SA meetings = 0
- Delegates who would use PC Memory card (Flash Card) , if provided at TSG SA meetings = 14
- Delegates who would insist to use paper copies of documents at TSG SA meetings = 0

A [Decision](#) was then made not to ask hosts to print paper copies at future meetings of TSGs. Printers should be made available at electronic meetings and it is preferable to have English language versions of Software on the PCs (Windows, Applications, etc.).

12 Closing of meeting

The TSG SA Chairman thanked host and secretariat support for excellent working conditions and electronic facilities, which enabled a very smooth-running meeting.

Delegates were thanked for their patience and hard work and the TSG SA Chairman then declared the meeting closed.

Annex A: Co-ordinates of TSG and WG Officials
A.1 TSG SA Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG SA Officials:						
Chairman	Niels Andersen	MOTOROLA	npa001@email.mot.com	+45 43 48 81 10	+45 43 48 82 76	+45 4018 4793
Vice Chairman	Gary Jones	Omnipoint	gJones@omnipoint-corp.com	+1 301 951 2524	+1 703 715 2365	+1 201 486 0949
Vice Chairman	Armin Toepler	Mannesmann	armin.toepler@d2privat.de	+49 211 533 2838	+49 211 533 2804	+49 172 2100 748
Secretary	Maurice Pope	3GPP Support Team	maurice.pope@etsi.fr	+33 4 92 94 4259	+33 4 92 38 5259	
TSG SA WG1 Officials:						
Chairman	Alan Cox	Vodafone	alan.cox@vf.vodafone.co.uk	+44 1635 673 332	+44 1635 583 019	+44 385 200 147
Vice Chairman	David Cooper	Telecom Modus Ltd	david.cooper@t-modus.co.uk	+358 40 50 40 734	+358 9 511 68080	+358 40 50 40 734
Vice Chairman	Tommi Kukkola	Nokia Corporation	tommi.kukkola@nokia.com	+33 4 92 94 4228	+33 4 92 38 5228	
Secretary	Michael Clayton	3GPP Support Team	michael.clayton@etsi.fr			
TSG SA WG2 Officials:						
Chairman	Teuvo Jarvela	Nokia Corporation	teuvo.jarvela@nmp.nokia.com	+44 1252 865 163	+44 1252 865 065	+44 385 525 683
Vice Chairman	Yukio Hiramatsu	NTT	hiramatu@magnet.netlab.ntt.co.jp	+81 422 59 6024	+81 422 60 7429	+81 50 137 8536
Vice Chairman	Vacancy					
Secretary	Alain Sultan	3GPP Support Team	alain.sultan@etsi.fr	+33 4 92 94 42 71	+33 4 92 38 5271	+33 6 80 08 94 59
TSG SA WG3 Officials:						
Chairman	Michael Walker	Vodafone	mike.walker@vf.vodafone.co.uk	+44 1635 673 886	+44 1635 31127	+44 385 277 687
Vice Chairman	Stefan Puetz	Deutsche Telekom MobilNet	stefan.puetz@t-mobil.de	+49 228 936 3377	+49 228 936 88 3377	
Vice Chairman	Michael Marcovici	Lucent Technologies	marcovici@lucent.com	+1 630 979 4062	+1 630 224 9955	
Secretary	Ansgar Bergmann	3GPP Support Team	ansgar.bergmann@etsi.fr	+33 4 92 94 43 22	+33 4 92 38 5322	
TSG SA WG4 Officials:						
Chairman	Alain Ohana	GSM North America	alain.ohana@pcs.bls.com	+1 972 517 0709		
Vice Chairman	Kari Jarvinen	Nokia	kari.jarvinen@research.nokia.com	+358 9272 5854	+358 3272 5888	+358 50 555 0999
Vice Chairman	Hiroyuki Yamaguchi	NTT DoCoMo	hyama@spg.yrp.nttdocomo.co.jp	+81 648 40 3512	+81 468 40 3788	
Secretary	Paolo Usai	3GPP Support Team	paolo.usai@etsi.fr	+33 4 92 94 42 36	+33 4 92 38 5236	+39 335 387 164
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Vice Chairman	Vacancy					
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A.2 TSG CN Officials

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A.4 TSG T Officials

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Annex B: List of documents

NUMBER	TITLE	SOURCE	AGENDA ITEM	REPLACED BY
SP-99344	Draft agenda for Meeting #5	Chairman	2	SP-99469
SP-99345	Draft Report of TSG SA Meeting #4, version 1.0.0	TSG SA Secretary	3	
SP-99346	Liaison statement response on IST for non-CAMEL subscribers	CN WG2	4.1	
SP-99347	3GPP handling of the OHG Proposal	T1P1	4.2	
SP-99348	RE: Liaison Statement Concerning Requirements for all-IP Option for Release 2000	T1P1	4.2	
SP-99349	Liaison statement concerning requirements for all-IP option for release 2000	SA WG1	5.1.2	
SP-99350	LS on Use of Prioritising Channel Selection for Cell Selection Procedure	RAN WG2	4.1	
SP-99351	Liaison statement concerning the work plan for all-IP option for release 2000	SA WG2	5.2.2	
SP-99352	Liaison statement to SA WG4 on Support of Speech Service in RAN	RAN WG1	4.1	
SP-99353	TS 26.094 v. 2.0.0	SA WG4	5.4.3	
SP-99354	Common WI description for the Wideband Codec	SA WG4	5.4.3	
SP-99355	TS 26.073 v 1.0.0 ANSI-C code for the AMR speech codec (with a cover page on Copyright issue)	SA WG4	5.4.3	
SP-99356	Updated version of TS 26.101 (v. 1.4.0)	SA WG4	5.4.3	
SP-99357	CR 001 to TR 26.911 v. 3.0.1	SA WG4	5.4.3	
SP-99358	CR 002 rev 1 to TR 26.911 v. 3.0.1	SA WG4	5.4.3	
SP-99359	CR 001 to TS 26.111 v. 3.0.1	SA WG4	5.4.3	
SP-99360	LS to SA and N1 (CC) on required network functionality for usage of SIM in 3G mobiles	CN WG2	4.1	
SP-99361	LS to RAN WG2 and RAN WG1 on Physical Layer Measurements Requirements	RAN WG4	4.1	
SP-99362	Liaison statement to TSG-S4 on radio simulator capabilities	RAN WG4	4.1	
SP-99363	SA WG4 Status Report	SA WG4 Chairman	5.4.1	
SP-99364	Report of Support Team activities	MCC (Adrian Scrase)	8	
SP-99365	3G TS 21.101: Release 1999 Specifications	I Doig, MCC	8	
SP-99366	GSM 01.01: GSM Release 1999 Specifications	I Doig, MCC	8	
SP-99367	Review of 3GPP TS26.112 "Call Set-up Requirements for Circuit Switched Multimedia Telephony Service", version 1.1.0	CN WG1 & WG3	4.1	
SP-99368	LS regarding the scope of CAMEL Phase 3	CN WG2	4.1	
SP-99369	Maintenance of earlier releases of 2G GSM versions of specifications	I Doig, MCC	6.8	
SP-99370	Response to Liaison statement on PLMN selection for GPRS MS	ETSI SMG2	4.2	
SP-99371	Draft of GSM/EDGE RAN Radio Requirements	ETSI SMG2	4.2	
SP-99372	LS concerning the GSM/EDGE RAN	ETSI SMG2	4.2	
SP-99373	GSM Radio work coordination for Release 2000 and beyond	AT&T, BT, CSELT/TIM, Ericsson, Lucent, Motorola, Nokia, Nortel, Rogers Cantel, Telenor	6.7	
SP-99374	3GPP Programme Management for R99 and R2000	BT	7.1	
SP-99375	Withdrawn			
SP-99376	Liaison statement on selected location service methods for Release '99	RAN WG2	4.1	
SP-99377	LS on the simultaneous connection of the UTRAN to two CN's.	RAN WG2	4.1	
SP-99378	2nd 3GPP PCG Meeting Draft summary minutes	PCG Secretary	4	
SP-99379	New ASN.1 Syntax Checking Service from PTCC	ETSI OCG / PEX	8	
SP-99380	Status report of SA WG5	SA WG5 Chairman	5.5.1	
SP-99381	CRs to GSM 12.15 vsn 7.2.1 (Release 1998)	SA WG5	5.5.3	
SP-99382	3G TS 32.104 V1.0.0	SA WG5	5.5.3	
SP-99383	3G TS 32.106 V1.0.0	SA WG5	5.5.3	
SP-99384	3G TS 32.111 V1.0.0	SA WG5	5.5.3	
SP-99385	GSM LCS Charging	T1P1.5	4.2	
SP-99386	Status report of SA WG2	SA WG2 Chairman and Secretary	5.2.1	
SP-99387	TS 23.107 v.2.0.0, QoS Concept and Architecture	SA WG2	5.2.3	
SP-99388	TR 23.922 v.1.0.0, Architecture for an all-IP network	SA WG2	5.2.3	
SP-99389	TR 23.923 v.1.0.0, Combined GSM and MobileIP Mobility Handling in UMTS IP CN	SA WG2	5.2.3	
SP-99390	TR 30.801 v.1.0.0, Overall Project Plan	SA WG2	5.2.3	

NUMBER	TITLE	SOURCE	AGENDA ITEM	REPLACED BY
SP-99391	TR 30.802 v.1.0.0, Project plan on Bearer Services and QoS	SA WG2	5.2.3	
SP-99392	TR 30.804 v.1.0.0, Project plan on GSM/UMTS Interoperation and Mobility Management	SA WG2	5.2.3	
SP-99393	TR 30.806 v.1.0.0, Project plan on Location based services	SA WG2	5.2.3	
SP-99394	TR 30.808 v.1.0.0, Project plan on Packet Architecture and Circuit Architecture	SA WG2	5.2.3	
SP-99395	TR 30.810 v.1.0.0, Project plan on Security	SA WG2	5.2.3	
SP-99396	TR 30.812 v.1.0.0, Project plan on Services and Service Platforms	SA WG2	5.2.3	
SP-99397	CRs on 23.002 v.3.0.0	SA WG2	5.2.3	
SP-99398	CRs on 23.060 v.3.0.0	SA WG2	5.2.3	
SP-99399	CRs on 23.110 v.3.1.0	SA WG2	5.2.3	
SP-99400	CRs on 23.121 v.3.0.0	SA WG2	5.2.3	
SP-99401	CRs on 23.920 v.3.0.0	SA WG2	5.2.3	
SP-99402	ROADMAP DOCUMENT ITU-T IMT-2000	ERICSSON LM		
SP-99403	Liaison statement to 3GPP concerning Global Certification or Type Approval	UMTS Forum	4.2	
SP-99404	VCS principles	GSM Association	4.2	
SP-99405	Powerpoint presentation of VCS Programme Overview	GSM Association	4.2	
SP-99406	LS - Impact of inter-PLMN handover principles	GSM Association	4.2	
SP-99407	Liaison to TSG-SA, TSG-CN, TSG-RAN on Terminology and vocabulary in 3GPP	TSG T	6.3.2	
SP-99408	TS 23.171 v.1.0.0	SA WG2	5.2.3	
SP-99409	TS 23.127 v.1.0.0	SA WG2	5.2.3	
SP-99410	33.103 v1.1.3	SA WG3	5.3.3	SP-99424
SP-99411	Some requirements for an "all IP" option for UMTS	France Télécom, Vodafone	6.7	
SP-99412	Purposes and documentation of Release 2000	France Télécom, Vodafone	6.7	
SP-99413	Liaison statement on freezing GSM Release 97 & Release 98	TSG CN	4.1	
SP-99414	Liaison to TSG SA on the ITU-R TG 8/1 revision of Recommendation M.1079	TSG RAN	4.1	
SP-99415	"User Control" requirements for SIM toolkit stage 1	France Télécom	5.1.3	
SP-99416	"Co-ordination between 3GPP TSG SA and ETSI SPAN3, related to OSA	Alcatel	4.2	
SP-99417	CRs to 33.102 for approval	SA WG3	5.3.3	
SP-99418	CRs to 33.105 for approval	SA WG3	5.3.3	
SP-99419	Liaison Statement on how to handle approval of MS Conformance Test specifications coupled to a certain 3GPP release	TSG T	4.1	
SP-99420	Liaison Statement on resource situation and the general strategy and status of the elaboration of test cases	TSG T	4.1	
SP-99421	Regarding position paper on "Supplement to Recommendation Q.1701" from ITU-T WP3/11	TSG T	4.1	
SP-99422	Regarding position paper #2 on "Supplement to Recommendation Q.1701" from ITU-T WP3/11	TSG T	4.1	
SP-99423	3G TR 33.902 V 0.1.0 - "Formal Analysis of the 3G Authentication Protocol with Modified Sequence number Management"	SA WG3	5.3.3	
SP-99424	3G TS 33.103 V2.0.0 "3G Security; Integration Guidelines"	SA WG3	5.3.3	
SP-99425	Draft LS to TIA TR-45 AHAG on 3GPP authentication mechanism as a candidate for ESA	Vodafone	5.3.3	
SP-99426	Status of S3 deliverables	SA WG3	5.3.1	
SP-99427	Cross border coordination and inter-network SH	T-Mobil	6.7	
SP-99428	CR to 21.900 for approval	MCC	8	
SP-99429	Report of SA WG1	SA WG1	5.1.1	
SP-99430	Powerpoint presentation of Report of SA WG1	SA WG1	5.1.1	
SP-99431	3G TS 22.140 version 1.0.0	SA WG1	5.1.3	
SP-99432	3G TS 22.094 version 2.1.0	SA WG1	5.1.3	
SP-99433	3G TS 22.135 version 2.0.0	SA WG1	5.1.3	
SP-99434	3G TS 22.038 version 2.0.0	SA WG1	5.1.3	
SP-99435	Emergency Calls	SA WG1	5.1.3	
SP-99436	Collection of CRs to 22.129 on handover	SA WG1	5.1.3	
SP-99437	Changes to LCS for MO position	SA WG1	5.1.3	SP-99486
SP-99438	Collection of CRs to 22.071	SA WG1	5.1.3	
SP-99439	Collection of CRs for Support of SAT by USIM	SA WG1	5.1.3	
SP-99440	Reserved for SA WG1	SA WG1	5.1.3	
SP-99441	Collection of CRs related to GPRS Barring and Notification of Server IP address	SA WG1	5.1.3	

NUMBER	TITLE	SOURCE	AGENDA ITEM	REPLACED BY
SP-99442	Collection of CRs on VHE	SA WG1	5.1.3	
SP-99443	Withdrawn	SA WG1	5.1.3	
SP-99444	CR A021 to 02.60 version 6.2.0	SA WG1	5.1.3	SP-99479
SP-99445	CR to 02.43 on Maximum number of LSAs allowed for a subscriber	SA WG1	5.1.3	
SP-99446	Bearer Services	SA WG1	5.1.3	
SP-99447	Two CRs to 22.030	SA WG1	5.1.3	
SP-99448	Channel coding asymmetry for ECSD	SA WG1	5.1.3	
SP-99449	Multicall	SA WG1	5.1.3	
SP-99450	Multicall	SA WG1	5.1.3	
SP-99451	CRs to MSP Phase 2	SA WG1	5.1.3	
SP-99452	Alignments and corrections and Organisation	SA WG1	5.1.3	
SP-99453	CRs to 22.105	SA WG1	5.1.3	
SP-99454	CRs to 22.115 on charging	SA WG1	5.1.3	
SP-99455	CR to 22.975 on Numbering principles	SA WG1	5.1.3	
SP-99456	All IP option for Release 2000	SA WG1	5.1.3	
SP-99457	Terminology and vocabulary in 3GPP	TSG T	4.1	
SP-99458	Liaison statement to TSG-SA on the distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals	TSG T	4.1	
SP-99459	Comments on the R00 All IP TR, v 0.1.4	Telia AB	6.7	
SP-99460	Report from TSG RAN to TSG SA	TSG RAN Chairman	6.2.1	
SP-99461	Report from TSG CN to TSG SA	TSG CN Chairman	6.1.1	
SP-99462	Powerpoint presentation of Report from TSG CN to TSG SA	TSG CN Chairman	6.1.1	
SP-99463	List of Specifications under the responsibility of TSG CN	TSG CN Chairman	6.1.3	
SP-99464	TSG CN Work Item Status List	TSG CN Chairman	6.1.3	
SP-99465	Liaison Statement from TSG CN to TSG SA on ownership of GPRS	TSG CN Chairman	6.1.2	
SP-99466	Liaison Statement from TSG CN to TSG SA on reporting of S1, S2, S3 to CN Plenary	TSG CN Chairman	6.1.2	
SP-99467	Draft ToR for ITU-T ad-hoc group	TSG CN Chairman	6.1.2	
SP-99468	Definition and completion of Release 1999	TSG Chairmen	6.6 / 7.3	
SP-99469	(revised) Draft agenda for Meeting #5	Chairman	2	
SP-99470	MS and Network Resident Execution Environments	SA WG1	5.1.3	SP-99494
SP-99471	Handling of GSM only specifications	TSG CN	6.1.3	
SP-99472	Report from the UMTS Forum	UMTS Forum	4.2	
SP-99473	Definitions used for the Mobile Station/Terminal	TSG T	4.1	
SP-99474	Comments on the R00 All IP TR, v 0.1.4	Telia AB	5.2.3	
SP-99475	TSG T#5 Chairman's Report (Powerpoint Presentation)	TSG T	6.3	
SP-99476	TSG T#5 Chairman's Report (Word Presentation)	TSG T	6.3	
SP-99477	TSG SA3#5 Meeting Report	TSG SA3	5.3	
SP-99478	TSG SA3#5 BIS Meeting Report	TSG SA3	5.3	
SP-99479	CR A021 to 02.60 version 6.2.0	SA WG1	5.1.3	
SP-99480	SA#3 Meeting Report	SA WG3 Chairman	5.3	
SP-99481	Clarification of emergency call requirements	NTT DoCoMo	5.1.3.	
SP-99482	Call for Global Unification of IP Network Standardization for the Wireless Industry	Vodafone AirTouch	6.7	
SP-99483	Revised CR to 22.129 (007 Rev 1) on Handover	TSG SA	5.1.1	
SP-99484	LS to TSG-SA "Liaisons between SA5 and the TMF"	SA5	5.5.2	
SP-99485	CRs on 23.060 v.3.0.0	SA WG2	5.2.3	
SP-99486	Changes to LCS for MO position excluding velocity references	SA WG1	5.1.1	
SP-99487	Model for Technical project co-ordination and management	TSG Chairmen	7.3	
SP-99488	Global Roadmap for UMTS and GSM	MCC	7.1.	
SP-99489	TSG SA#5 Draft October 99 Specification status list	MCC, Ian Doig	6.5	
SP-99490	3GPP Radio Interface Specifications (Section 5.x.3)	TSG-SA Vice Chair	6.4	
SP-99491	Proposed answer to "Supplement to Recommendation Q.1701"	ITU T WP 3/11	6.4	
SP-99492	Refined Draft ToR for TSG_CN ITU-T ADHOC working group	TSG_CN Chairman & contributors	6.1.2	
SP-99493	Proposal for UE definition and handling of the GSM references	TSG-SA Ad Hoc Meeting on Terminology	6.3.2	
SP-99494	MS and Network Resident Execution Environments	SA WG1	5.1.3	
SP-99495	CR 011 to TS 33.102	SA WG3	<e-mail>	
SP-99496	CR 019 to TS 33.102	SA WG3	<e-mail>	
SP-99497	CR029 to TS 23.060	SA WG2	<e-mail>	

Annex C: List of attendees

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Annex D: Status list of Specifications and Reports after TSG SA Meeting #5 ("October Release")

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	21.101	Specification set	1.0.0	Dec 99		S	Ian Doig	New
TS	21.111	USIM and IC card requirements	3.0.0	April 99		T3	Günter Maringer	
TS	21.133	Security Threats and Requirements	3.0.0	April 99		S3	Per Christoffersson	
TR	21.900	3GPP Working methods	3.2.0	April 99		S		CR at TSG#5
TR	21.904	Terminal Capability Requirements	1.0.1	Dec 99		T2	Craig Bishop	
TR	21.905	3G Vocabulary	0.0.1	Dec 99		S1	Michele Zarri	New
TR	21.906	O&M requirements	3.0.0	April 99		S1		
TR	21.910	Multi-system issues	1.0.0	Dec 99		T2	Sofi Persson	New
TS	22.002	Bearer Services Supported by a GSM PLMN	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.004	General on Supplementary Services	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.011	Service accessibility	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.016	International Mobile Equipment Identities (IMEI)	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.022	Personalisation of GSM ME Mobile functionality specification - Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.024	Description of Charge Advice Information (CAI)	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.034	High Speed Circuit Switched Data (HSCSD) - Stage 1	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.038	SIM application toolkit (SAT); Stage 1	3.0.0	Oct 99		S1		Transfer>TSG#4
TS	22.041	Operator Determined Call Barring	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.042	Network Identity and Time Zone (NITZ); stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.043	Support of Localised Service Area (SoLSA) - Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.053	Tandem Free Operation of speech codecs; Stage 1 service description	0.1.1	Dec 99		S4	William Navarro	Transfer>TSG#4
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.060	General Packet Radio Service (GPRS); Stage 1	3.1.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.071	Location Services (LCS); Stage 1 (T1P1)	3.0.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.072	Call Deflection (CD); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.078	CAMEL phase 3; Stage 1	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.079	Support of Optimal Routing; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.081	Line Identification Supplementary Services; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.084	MultiParty (MPY) Supplementary Service; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.087	User-to-user signalling (UUS); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)	3.0.1	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	3.1.0	Oct 99		S1		Transfer>TSG#4,CR at TSG#5
TS	22.100	UMTS Phase 1	3.4.0	April 99		S1	Jean-Paul Gallaire	CR at TSG#4, CR at TSG#5
TS	22.101	UMTS Service principles	3.7.0	April 99		S1	Paul Dwyer	CR at TSG#4, CR at TSG#5
TS	22.105	Services & Service capabilities	3.6.0	April 99		S1	Wayne Ashwell	CR at TSG#4, CR at TSG#5
TS	22.115	Service Aspects Charging and billing	3.2.0	April 99		S1	Emanuele Montegrosso	CR at TSG#5?
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment	3.1.0	June 99		S1	Jumoke Ogunbekum	CR at TSG#5?
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	3.1.0	April 99		S1	David Cooper	CR at TSG#5?
TS	22.135	Multicall Stage1	3.0.0	Dec 99		S1	Tommi Kokkola	
TS	22.140	Multimedia Messaging Service Stage 1	1.0.0	Dec 99		S1	Gunnar Schmidt	New (development in T2)
TR	22.907	Terminal concepts	3.1.3	April 99		S1	Mika Tolvanen	CR at TSG#4 Not maintained
TR	22.924	Charging and accounting mechanisms	3.1.1	April 99		S1	Emanuele Montegrosso	
TR	22.925	Quality of service and network performance	3.1.1	April 99		S1	Olle Eriksson	
TR	22.945	Study of provision of fax service in GSM and UMTS	3.0.0	Oct 99		T2	Eric Colban	
TR	22.960	Mobile multimedia services	3.0.1	April 99		S1	Thomas Ahnberg	
TR	22.970	Virtual Home Environment Report	3.0.1	April 99		S1	Jumoke Ogunbekum	
TR	22.971	Automatic establishment of roaming relationships	3.1.1	April 99		S1	Emanuele Montegrosso	
TR	22.972	Multimedia	0.0.0	Dec 99		S1		
TR	22.975	Advanced addressing	3.1.0	April 99		S1	Stephan Kleier	CR at TSG#5
TS	23.002	Network Architecture	3.1.0	Oct 99		S2	Alain Sultan	Transfer>TSG#4,CR at TSG#5
TS	23.003	Numbering, Addressing and Identification	3.2.0	April 99		N2B		CR at TSG#4,CR at TSG#5
TS	23.007	Restoration procedures	3.1.3	April 99		N2B		CR at TSG#4
TS	23.008	Organisation of subscriber data	3.1.0	April 99		N2B		CR at TSG#5
TS	23.009	Handover procedures	3.0.0	April 99		N1		
TS	23.011	Technical Realization of Supplementary Services - General Aspects	3.0.0	April 99		NSS		
TS	23.012	Location registration procedures	3.0.0	April 99		N2B		
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	3.0.0	April 99		N1		
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	3.1.0	April 99		N2B	Ian Park	CR at TSG#4
TS	23.016	Subscriber data management - Stage 2	3.2.0	April 99		N2B		CR at TSG#4,CR at TSG#5
TS	23.018	Basic Call Handling - Technical realisation	3.2.0	April 99		N2B	Ian Park	CR at TSG#4,CR at TSG#5
TS	23.022	Functions related to Mobile Station (MS) in idle mode	3.1.0	April 99		N1		CR at TSG#4
TS	23.032	Universal Geographical Area Description (GAD)	3.0.0	April 99		S2/N2 B		S2 responsibility?
TS	23.034	High Speed Circuit Switched Data (HSCSD) - Stage 2	3.1.0	April 99		N1	Ian Harris	CR at TSG#5
TS	23.038	Alphabets & Language	3.2.0	June 99		T2	Ian Harris	CR at TSG#4,CR at TSG#5

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.0.0	June 99		T2	Ian Harris	
TS	23.040	Technical realisation of SMS Point to Point	3.2.0	June 99		T2	Ian Harris	CR at TSG#4, CR at TSG#5
TS	23.041	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	3.0.0	Oct 99		T2		Transfer>TSG#4
TS	23.042	Compression algorithm for SMS	3.0.0	June 99		T2	Ian Harris	
TS	23.046	Technical realisation of facsimile Group 3 service- non-transparent	3.0.0	April 99		N3	Hagiwara	
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	0.0.0	Dec 99		S4		Transfer>TSG#4
TS	23.054	Shared Interworking Functions - Stage 2	3.0.0	April 99		N3	Tommy Rostö	
TS	23.057	Mobile Station Application Execution Environment (MEXE)	1.5.0	Dec 99		T2	Mark Cataldo	
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	3.1.0	Oct 99		S2	Hans-Petter Naper	Transfer>TSG#4, CR at TSG#5
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	3.1.0	Oct 99		N2B		Transfer>TSG#4, CR at TSG#5
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	3.0.0	April 99		NSS		
TS	23.070	Routing of calls to/from Public Data Networks	3.0.0	April 99		N3		
TS	23.072	Call Deflection Supplementary Service - Stage 2	3.1.0	April 99		NSS		CR at TSG#5
TS	23.073	Support of Localised Service Area (SolSA) - Stage 2	3.0.0	Oct 99		NSS		Transfer>TSG#4
TS	23.078	CAMEL Stage 2	3.2.0	April 99		N2A	Christian Hohmann/ Sumio Miyagawa	CR at TSG#4, CR at TSG#5
TS	23.079	Support of Optical Routing - Phase 1 - Stage 2	3.2.0	April 99		N2B	Ian Park	CR at TSG#4, CR at TSG#5
TS	23.081	Line Identification Supplementary Services - Stage 2	3.0.0	April 99		NSS		
TS	23.082	Call Forwarding (CF) Supplementary Services - Stage 2	3.0.0	April 99		NSS		
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	3.1.0	April 99		NSS		CR at TSG#5
TS	23.084	MultiParty (MPY) Supplementary Service - Stage 2	3.1.0	April 99		NSS		CR at TSG#5
TS	23.085	Closed User Group (CUG) Supplementary Service - Stage 2	3.0.0	April 99		NSS		
TS	23.086	Advice of Charge (AoC) Supplementary Service - Stage 2	3.0.0	April 99		NSS		
TS	23.087	User-to-User Signalling (UUS) - Stage 2	3.0.0	April 99		NSS		
TS	23.088	Call Barring (CB) Supplementary Service - Stage 2	3.0.0	April 99		NSS		
TS	23.090	Unstructured Supplementary Service Data (USSD) - Stage 2	3.0.0	April 99		NSS		
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	3.0.0	April 99		NSS		
TS	23.093	Call Completion to Busy Subscriber (CCBS) - Stage 2	3.0.0	April 99		NSS		
TS	23.096	Name Identification Supplementary Service - Stage 2	3.0.0	April 99		NSS		
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	3.0.1	Oct 99		NSS		Transfer>TSG#4, CR at TSG#5
TS	23.101	General UMTS Architecture	3.0.1	June 99		S2	Magnus Olsson	
TS	23.107	Quality of Service, Concept and Architecture	3.0.0	Oct 99		S2	Juha Kalliokulju	was 23.907 New
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	3.0.0	June 99		N1		
TS	23.110	UMTS Access Stratum Services and Functions	3.2.0	June 99		S2	Oscar Lopez – Torres	CR at TSG#5
TS	23.121	Architecture Requirements for release 99	3.1.0	June 99		S2	Liz Daniel	CR at TSG#5
TS	23.127	Virtual Home Environment / Open Service Architecture	0.3.0	Dec 99		S2	Erwin van Rijssen	New
TS	23.140	Multimedia Messaging Service Stage 2	0.1.0	Mar 00		T2	Gunnar Schmidt	New

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	23.171	Functional stage 2 description of location services in UMTS	1.0.0	Dec 99		S2	Jan Käll	New
TR	23.907	Quality of Service	1.1.0	Dec 99		S2	Juha Kalliokulju	Stopped replaced by 23.107
TR	23.908	Technical report on Pre-Paging	3.0.0	June 99		N2B		
TR	23.909	Technical report on the Gateway Location Register	3.0.0	June 99		N2B		
TR	23.911	Technical report on Out-of-band transcoder control	3.0.0	Oct 99		N3		New
TR	23.912	Technical report on Super-Charger	3.0.0	Oct 99		N3	Ian Sharp	New
TR	23.920	Evolution of the GSM platform towards UMTS	3.1.0	June 99		S2	Liz Daniel	CR at TSG#5
TR	23.922	Architecture for an All IP network	1.0.0	Dec 99		S2	Liz Daniel	New
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	1.0.0	Dec 99		S2	Elisabeth Hubbard	
TR	23.925	UMTS Core network based ATM transport	0.2.0	Dec 99		S2	Adel Rouz	
TR	23.927	VHE, Open Service Architecture	0.1.0	Dec 99		S1		
TR	23.930	Iu Principles	3.0.0	June 99		S2	Bo Axerud	
TR	23.960	Framework of Network functions to support multimedia services in UMTS	0.1.0	Dec 99		S2	Axel Gabe	Stopped at TSG#5
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	3.1.0	Oct 99		N1		Transfer>TSG#4, CR at TSG#5
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	3.1.0	April 99		N1		CR correction produced 3.0.1, CR at TSG#5
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	3.0.0	April 99		NSS		
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	3.0.0	Oct 99		N1/T2		Transfer>TSG#4
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	3.0.0	Oct 99		N2B/T ₂		Transfer>TSG#4
TS	24.022	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	3.1.0	April 99		N3	Norbert Klehn	CR at TSG#4 (post TSG#4 approval)
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	3.0.0	April 99		NSS		
TS	24.072	Call Deflection Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	3.0.0	April 99		NSS		
TS	24.081	Line Identification Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.082	Call Forwarding Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.084	MultiParty (MPTY) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.085	Closed User Group (CUG) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.086	Advice of Charge (AoC) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.087	User-to-User Signalling (UUS) - Stage 3	3.0.0	April 99		NSS		
TS	24.088	Call Barring (CB) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.090	Unstructured Supplementary Service Data (USSD) - Stage 3	3.0.0	April 99		NSS		
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	24.093	Call Completion to Busy Subscriber (CCBS) - Stage 3	3.0.0	April 99		NSS		

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	24.096	Name Identification Supplementary Service - Stage 3	3.0.0	April 99		NSS		
TS	25.101	UE Radio transmission and reception (FDD)	3.0.0	Oct 99		R4	Edgar Fernandes	
TS	25.102	UE Radio transmission and reception (TDD)	3.0.0	Oct 99		R4	Meik Kottkamp	
TS	25.103	RF parameters in support of RRM	2.0.0	Dec 99		R4	Daniele Franceschini	
TS	25.104	BTS Radio transmission and reception (FDD)	3.0.0	Oct 99		R4	Johan Sköld	
TS	25.105	BTS Radio transmission and reception (TDD)	3.0.0	Oct 99		R4	Meik Kottkamp	
TS	25.113	BTS EMC	1.2.0	Dec 99		R4	Simon Pike	
TS	25.141	Base station conformance testing (FDD)	2.0.2	Dec 99		R4	Takaharu Nakamura	
TS	25.142	Base station conformance testing (TDD)	2.0.0	Dec 99		R4	Juergen Meyer	
TS	25.201	Physical layer -General Description	3.0.0	Oct 99		R1	Antti Toskala	
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	3.0.0	Oct 99		R1	Andreas Wiide	
TS	25.212	Multiplexing and channel coding (FDD)	3.0.0	Oct 99		R1	Yoshinori Tanaka	
TS	25.213	Spreading and modulation (FDD)	3.0.0	Oct 99		R1	Peter Chambers	
TS	25.214	FDD; physical layer procedures	3.0.0	Oct 99		R1	Takehiro Nakamura	
TS	25.215	Physical layer; Measurements (FDD)	3.0.0	Oct 99		R1		New
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	3.0.0	Oct 99		R1	Katsuhiko Hiramatsu	
TS	25.222	Multiplexing and channel coding (TDD)	3.0.0	Oct 99		R1	Jussi Kahtava	
TS	25.223	Spreading and modulation (TDD)	3.0.0	Oct 99		R1	Kenji Ito	
TS	25.224	TDD; physical layer procedures	3.0.0	Oct 99		R1	Stefan Oestreich	
TS	25.225	Physical layer; Measurements (TDD)	3.0.0	Oct 99		R1		New
TS	25.301	Radio Interface Protocol Architecture	3.2.0	April 99		R2	Wolfgang Granzow	CR at TSG#4, CR at TSG#5
TS	25.302	Services provided by the physical layer	3.1.0	Oct 99		R2	Pierre Lescuyer	V3.0.0 approved via e-mail July 99 CR at TSG#5?
TS	25.303	UE functions and inter-layer procedures in connected mode	3.1.0	June 99		R2	Mikko J. Rinne	CR at TSG#5
TS	25.304	UE procedures in Idle Mode	3.0.0	Oct 99		R2	Tommi Leivonen	
TS	25.305	Location Services (LCS) features	0.0.0	Oct 99		R2	David G Steer	Created from 25.925
TS	25.321	Medium Access Control (MAC) Protocol Specification	3.1.0	June 99		R2	Armin Sittte	CR at TSG#5
TS	25.322	Radio Link Control (RLC) Protocol Specification	3.0.0	Oct 99		R2	Daniele Franceschini	
TS	25.323	Description of the Packet Data Convergence Protocol (PDCP) protocol	0.1.0	Dec 99		R2	Martin Hans	New
TS	25.324	Description of the Broadcast/Multicast Control BMC protocol	0.1.0	Dec 99		R2	Peter Krischan	New
TS	25.331	Radio Resource Control (RRC) Protocol Specification	3.0.0	Oct 99		R2	Stephen Barrett	
TS	25.401	UTRAN Overall Description	3.0.0	Oct 99		R3	Jean-Marie Calmel	Approval at TSG#5
TS	25.402	Synchronisation in UTRAN Stage 2	0.0.1	Dec 99		R3	Flavio Prolini	New
TS	25.410	UTRAN lu Interface: General Aspects and Principles	3.0.0	Oct 99		R3	Richard Townend	Approval at TSG#5
TS	25.411	UTRAN lu interface Layer 1	3.0.0	June 99		R3	Achim Brandt	
TS	25.412	UTRAN lu interface signalling transport	3.1.0	June 99		R3	Kiran Thakare	CR at TSG#5
TS	25.413	UTRAN lu interface RANAP signalling	1.3.1	Dec 99		R3	Jyrki Jussila	
TS	25.414	UTRAN lu interface data transport & transport signalling	3.1.0	June 99		R3	David Comstock	CR at TSG#5
TS	25.415	UTRAN lu interface user plane protocols	3.0.0	Oct 99		R3	Alain Maupin	Approval at TSG#5
TS	25.420	UTRAN lur Interface: General Aspects and Principles	1.0.1	Dec 99		R3	Kiran Thakare	

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	25.421	UTRAN Iur interface Layer 1	3.0.0	June 99		R3	Achim Brandt	
TS	25.422	UTRAN Iur interface signalling transport	3.1.0	June 99		R3	Kiran Thakare	CR at TSG#5
TS	25.423	UTRAN Iur interface RNSAP signalling	1.4.0	Dec 99		R3	Göran Rune	
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	3.1.0	June 99		R3	Nicolas Drevon	CR at TSG#5
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	0.2.5	Oct 99		R3	Nicolas Drevon	
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	3.1.0	June 99		R3	Sami Kekki	CR at TSG#5
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	3.0.0	Oct 99		R3	Fabio Longoni	
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	2.0.0	Dec 99		R3	Mick Wilson	
TS	25.431	UTRAN Iub interface Layer 1	3.0.0	June 99		R3	Achim Brandt	
TS	25.432	UTRAN Iub interface signalling transport	3.1.0	June 99		R3	Mick Wilson	CR at TSG#5
TS	25.433	UTRAN Iub interface NBAP signalling	1.3.0	Dec 99		R3	Nobutaka Ishikawa	
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	3.1.0	June 99		R3	Magnus Aldén	CR at TSG#5
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	3.0.0	Oct 99		R3	Jean-Marie Calmel	
TS	25.442	UTRAN Implementation Specific O&M Transport	3.0.0	Oct 99		R3	Stephan Recker	
TR	25.831	Study Items for future release	0.0.2	Dec 99		R3	Nicolas Drevon	
TR	25.832	Manifestations of Handover and SRNS relocation	3.0.0	Oct 99		R3	Richard Townend	
TR	25.921	Guidelines and principles for protocol description and error handling	1.3.0	Dec 99		R2	Jean Dumazy	
TR	25.922	Radio Resource Management Strategies	0.5.0	Dec 99		R2	Nicola Pio Magnani	
TR	25.924	ODMA	0.2.0	Dec 99		R2	Alan Law	
TR	25.925	Radio Interface for Broadcast/Multicast Services	0.2.0	Dec 99		R2	Peter Krischan	
TR	25.926	UE Radio Access capabilities definition	0.0.0	Dec 99		R2	Peter Krischan	New
TR	25.931	UTRAN Functions, examples on signalling procedures	1.2.2	Dec 99		R3	Enrico Scarrone	
TR	25.941	Document structure	3.0.0	Dec 99		R4	Tadao Takami	
TR	25.942	RF system scenarios	2.0.0	Dec 99		R4	Nadia Benabdallah	
TR	25.990	Vocabulary for UTRAN	3.0.0	Oct 99		R4	Peter Okrah	
TS	26.071	AMR speech Codec; General description	3.0.1	June 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.073	AMR speech Codec; C-source code	1.0.0	Dec 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.074	AMR speech Codec; Test sequences	2.0.0	Dec 99		S4	Erik Ekudden	Transfer>TSG#4
TR	26.075	AMR speech Codec; Performance Characterization of the GSM AMR Speech Codec	1.0.0	Dec 99			Erik Ekudden	
TS	26.090	AMR speech Codec; Transcoding Functions	3.0.1	June 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.091	AMR speech Codec; Error concealment of lost frames	3.0.1	June 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	3.0.1	June 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.093	AMR speech Codec; Source Controlled Rate operation	3.0.1	June 99		S4	Erik Ekudden	Transfer>TSG#4
TS	26.094	AMR speech Codec Voice Activity Detector for AMR Speech Traffic Channels	3.0.0	Oct 99		S4	Erik Ekudden	Transfer>TSG#4

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	26.101	AMR speech Codec; Frame Structure	1.4.0	Dec 99		S4	Jari Hagqvist	
TS	26.102	AMR speech Codec; Interface to lu and Uu	0.2.0	Dec 99		S4	William Navarro	
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	3.0.1	June 99		S4	Barry Aronson	
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	3.0.2	June 99		S4	Barry Aronson	CR at TSG#5
TS	26.112	Codec for Circuit switched Multimedia Telephony Service; Call Set-Up Requirements	1. 1.0	Dec 99		N3	Harri Honko	Transfer to N3
TS	26.121	Technical Specification for Tandem Free Operation within 3G networks	0.0.0	Dec 99		S4		
TS	26.122	Technical Specification for Tandem Free Operation between 3G and 2G networks	0.0.0	Dec 99		S4		
TS	26.131	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	0.0.0	Dec 99		S4	Ian Goetz	New
TS	26.132	Narrow Band (3.1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	0.0.0	Dec 99		S4	Ian Goetz	New
TS	26.133	Wide Band Speech Telephony Terminal Acoustic Characteristics	0.0.0	Mar 00		S4	Paul Barrett	New
TS	26.134	Wide Band Speech Telephony Terminal Acoustic Test Specification	0.0.0	Mar 00		S4	Paul Barrett	New
TS	26.135	Terminal Display and Camera Characteristics For H.324 Narrow-band Video Telephony Service	0.0.0	Dec 99		S4	td	New
TS	26.136	Terminal Display and Camera Test Specifications For H.324 Narrow-band Video Telephony Service	0.0.0	Dec 99		S4	td	New
TS	26.137	Terminal Display and Camera Characteristics For H.323 Narrow-band Video Telephony Service	0.0.0	Dec 99		S4	td	New
TS	26.138	Terminal Display and Camera Test Specifications For H.324 Narrow-band Video Telephony Service	0.0.0	Dec 99		S4	td	New
TR	26.901	AMR speech Codec; performance characteristics	0.0.0	Mar 00		S4	Alain Ohana	
TR	26.911	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	3. 1.0	June 99		S4	Petri Haavisto	CR at TSG#5
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	1.0.0	Dec 99		S4	Olle Franceschi	
TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	0.0.1	Dec 99		S4	Harri Honko	
TR	26.915	Transmission planning aspects of the services in 3G PLMN System	0.0.0	Dec 99		S4	Ian Goetz	
TR	26.920	Architectural Model for the 3G Transcoders	0.1.1	Dec 99		S4	William Navarro	
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	3.2.0	April 99		N3	Eric Colban	CR at TSG#4 (post TSG#4 approval)CR at TSG#5?
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	3. 1.0	April 99		N3	Eric Colban	CR at TSG#4 (post TSG#4 approval)
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	3. 1.0	April 99		N3	Eric Colban	CR at TSG#4 (+post TSG#4 approval)

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TS	27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	3.0.0	June 99		T2	Ian Harris	
TS	27.007	AT command set for 3G User Equipment (UE)	3.2.0	June 99		T2	Lars Novak	CR at TSG#4, CR at TSG#5
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.2.0	June 99		T2	Lars Novak	CR at TSG#4, CR at TSG#5
TS	27.060	GPRS Mobile Stations supporting GPRS	3.2.0	April 99		N3	Graham Heaton	CR at TSG#4 (+post TSG#4 approval), CR at TSG#5
TS	27.103	Wide Area Network Synchronisation	3.0.0	Oct 99		T2	Kevin Holley	New
TR	27.901	Report on Terminal Interfaces - An Overview	1.2.0	Dec 99		T2	Lars Novak	New
TR	27.903	Discussion of Synchronisation Standards	3.0.0	Oct 99		T2	Kevin Holley	New
TS	28.062	Inband Tandem Free Operation (TFO) of Speech Codexes; Service Description; Stage 3	3.0.0	Oct 99		S4		Transfer>TSG#4
TS	29.002	Mobile Application Part (MAP)	3.2.0	April 99		N2B		CR at TSG#4, CR at TSG#5
TS	29.006	Interworking between a PLMN and the ISDN or PSTN for support of Packet Switched data transmission services	3.0.0	April 99		N3	Achim Braun	
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	3.2.0	April 99		N3	Norbert Klehn	CR at TSG#4 (post TSG#4 approval), CR at TSG#5
TS	29.010	Information Element Mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MCS) Signalling Procedures and the Mobile Application Part (MAP)	3.0.0	Oct 99		N2B		Transfer>TSG#4
TS	29.011	Signalling interworking for Supplementary Services	3.0.0	April 99		NSS		
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	3.0.0	Oct 99		NSS		Transfer>TSG#4
TS	29.016	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	3.0.0	April 99		N1		
TS	29.018	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	3.2.0	April 99		N1		CR at TSG#4, CR at TSG#5
TS	29.060	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	3.2.0	April 99		N2B	Tom Eric Ask	CR at TSG#4, CR at TSG#5
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	3.1.0	April 99		N3	Graham Heaton	CR at TSG#4 (+post TSG#4 approval)
TS	29.078	CAMEL phase 3; Stage 3	3.0.0	Oct 99		N2A	Jan Ellisberger	Transfer>TSG#4
TR	30.504	Work Plan and Study Items - RAN WG4	1.4.0	Dec 99		R4	Masaaki Iwasa	
TR	30.531	Work Plan and Study Items - RAN WG3	0.3.1	Dec 99		R3	Björn Ehrstedt	
TR	30.801	Overall Project Plan	1.0.0	Dec 99		S2	Alain Sultan	New
TR	30.802	Project plan on Bearer Services and QoS	1.0.0	Dec 99		S2	Oscar Lopez-Torres	New
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	1.0.0	Dec 99		S2	François Courau	New
TR	30.806	Project plan on Location based services	1.0.0	Dec 99		S2	Jan Käll	New
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	1.0.0	Dec 99		S2	Ulrich Drophmann	New

Type	Number	Title	Ver at TSG#5	planned/ achieved V3	Frozen @	TSG/ WG	Editor	Comment
TR	30.810	Project plan on Security	1.0.0	Dec 99		S2	Chris Pudney	New
TR	30.812	Project plan on Services and Service platforms	1.0.0	Dec 99		S2	Rob Schmersel	New
TS	31.101	UICC / Terminal Interface, Physical and Logical Characteristics	1.0.0	Dec 99		T3	Rune Lindholm	
TS	31.102	Characteristics of the USIM Application	1.0.0	Dec 99		T3	M. Kobayashi and Ch. Heim	
TS	31.110	UICC Application Identifiers	0.0.0	Dec 99		T3	Christian Dietrich	New
TS	31.111	USIM Application Toolkit (USAT)	0.0.0	Mar 00		T3	Kristian Woodsend	New
TS	31.120	Terminal tests for the UICC Interface	0.0.0	June 00		T3	Klaus Vedder	New, based on R99 core spec
TS	31.121	UICC Test Specification	0.0.0	June 00		T3	Klaus Vedder	New, based on R99 core spec
TS	32.101	3G Telecom Management principles and high level requirements	1.2.0	Dec 99		S5	Michael Truss	
TS	32.102	3G Telecom Management architecture	1.2.0	Dec 99		S5	Tommy Berggren	
TS	32.104	3G Performance Management	1.0.0	Dec 99		S5	Karl-Heinz Nenner	New
TS	32.106	3G Configuration Management	1.0.0	Dec 99		S5	Thomas Tovinger	New
TS	32.111	3G Fault Management	1.0.0	Dec 99		S5	Gaetano Cicchitto	New
TS	33.102	Security Architecture	3.2.0	April 99		S3	Bart Vinck	CR at TSG#4,CR at TSG#5
TS	33.103	Security Integration Guidelines	3.0.0	Oct 99		S3	Bart Vinck	
TS	33.105	Cryptographic Algorithm requirements	3.1.0	June 99		S3	Bart Vinck	CR at TSG#5
TS	33.106	Lawful interception requirements	3.0.0	June 99		S3	Bart Vinck	
TS	33.120	Security Objectives and Principles	3.0.0	April 99		S3	Tim Wright	
TR	33.901	Criteria for cryptographic Algorithm design process	3.0.0	June 99		S3	Vinck Bart	
TR	33.902	Formal Analysis of the 3G Authentication Protocol with Modified Sequence number Management	3.0.0	Oct 99		S3		New
TS	34.109	Logical Test Interface (TDD and FDD)	1.0.0	July 00		T1	Leif Mattisson	
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	1.2.0	Dec 99		T1	Kenji Higuchi	
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	0.1.0	Dec 00		T1	Thomas Mauksch	
TS	34.123-1	Mobile Station (MS) Conformance Specification, Part 1 – Conformance specification	0.0.4	July 00		T1	Lidia Salmeron	New
TS	34.123-2	Mobile Station (MS) Conformance Specification, Part 2 – ICS	0.0.6	July 00		T1	Shicheng Hu	New
TS	34.123-3	Mobile Station (MS) Conformance Specification, Part 3 – Abstract Test suites	0.0.0	Mar 01		T1	Shicheng Hu	New
TS	34.124	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	1.0.0	Mar 00		T1	Ole Soerensen	New
TR	34.907	Report on electrical safety requirements and regulations	3.0.0	Oct 99		T2	Eiji Iimori	
TR	34.910	Conformance Test specifications – Relevant for Regulatory use	0.0.1	Mar 01		T1	Bjarke Nielsen	New
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0	June 99		T2	Sven Johnsson	

**Annex E: List of Change Requests and their status after TSG SA Meeting #5
3GPP CR from SA (Working Methods document)**

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99428	21.900	003		3.1.0	Addition of new text related ti electronic working practices	approved	3.2.0	3GPP Working methods	C

E.1 CRs from SA WG1:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99479	22.002	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Bearer Services Supported by a GSM PLMN	D
SP-99446	22.002	002		3.0.0	Bearer Services	approved	3.1.0	Bearer Services Supported by a GSM PLMN	B
SP-99479	22.004	001		3.0.0	Editorial changes for alignment	approved	3.0.1	General on Supplementary Services	D
SP-99479	22.011	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Service accessibility	D
SP-99479	22.016	001		3.0.0	Editorial changes for alignment	approved	3.0.1	International Mobile Equipment Identities (IMEI)	D
SP-99479	22.022	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Personalisation of GSM ME Mobile functionality specification - Stage 1	D
SP-99479	22.024	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Description of Charge Advice Information (CAI)	D
SP-99479	22.030	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	D
SP-99447	22.030	002		3.0.0	Data services streamlining	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C
SP-99447	22.030	003		3.0.0	Support for Anonymous Call Rejection	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C
SP-99439	22.030	004		3.0.0	Indication to user in case of an error during Data Download	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	F
SP-99479	22.034	001		3.0.0	Editorial changes for alignment	approved	3.1.0	High Speed Circuit Switched Data (HSCSD) - Stage 1	D
SP-99448	22.034	002		3.0.0	Channel coding asymmetry for ECSD	approved	3.1.0	High Speed Circuit Switched Data (HSCSD) - Stage 1	B
SP-99479	22.041	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Operator Determined Call Barring	D
SP-99441	22.041	002		3.0.0	Addition of explicit requirements for Packet Oriented Services	approved	3.1.0	Operator Determined Call Barring	B
SP-99479	22.042	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Network Identity and Time Zone (NITZ), stage 1	D
SP-99479	22.043	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Localised Service Area (Sol-SA) - Stage 1	D
SP-99479	22.057	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Mobile Station Application Execution Environment (MIEE); Stage 1	D
SP-99440	22.060	001		3.0.0	Class B mode of operation	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	A
SP-99441	22.060	002		3.0.0	The function that gives the notification of the server IP address from the GPRS network to the subscriber.	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	B
SP-99441	22.060	003		3.0.0	Introduction of Barring for GPRS	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	B
SP-99479	22.060	004		3.0.0	Editorial changes for alignment	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	D
SP-99479	22.060	005		3.0.0	Editorial changes for alignment	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	D
SP-99479	22.066	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Mobile Number Portability (MNP); Stage 1	D
SP-99479	22.067	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Priority Set-up Service(PSUS); Stage 1(ASCI spec)	D

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99479	22.068	001		3.0.0	Editorial changes for alignment	withdrawn		Voice Group Call Service (VGCS); Stage 1 (ASCI spec)	D
SP-99479	22.069	001		3.0.0	Editorial changes for alignment	withdrawn		Voice Broadcast Service (VBS); Stage 1(ASCI spec)	D
SP-99486	22.071	001	1	3.0.0	UMTS LCS service requirements support for mobile originated positioning requests, and velocity as a service parameter	approved		Location Services (LCS); Stage 1 (T1P1)	C
SP-99438	22.071	002		3.0.0	UMTS LCS service requirements	approved	3.1.0	Location Services (LCS); Stage 1 (T1P1)	B
SP-99438	22.071	003		3.0.0	LCS accuracy requirements	approved	3.1.0	Location Services (LCS); Stage 1(T1P1)	C
SP-99479	22.071	004		3.0.0	Editorial changes for alignment	approved	3.1.0	Location Services (LCS); Stage 1 (T1P1)	D
SP-99479	22.072	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Deflection (CD); Stage 1	D
SP-99443	22.078	001		3.0.0	CAMEL control of packet switched MO SMS	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	002		3.0.0	CAMEL control of packet switched MO SMS	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	003		3.0.0	CSE related overload control	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	004		3.0.0	Clarify the serving network behaviour when instructions from the CSE are received.	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	005		3.0.0	Inclusion of Service Key in Mobility Management event notifications + editorial modifications	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	006		3.0.0	Clarification the behaviour when network provided dialled services are used.	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	007		3.0.0	Correct the unsuccessful call establishment procedure for MT calls	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	008		3.0.0	GSM 02.78 Clean-up of CAMEL phase information	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	009		3.0.0	Clarification on the type of number used by mobile stations.	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	010		3.0.0	Editorial update of references for GSM/3GPP use.	approved	3.1.0	CAMEL phase 3; Stage 1	D
SP-99443	22.078	011		3.0.0	CAMEL3 interworking with GPRS; Change of position	approved	3.1.0	CAMEL phase 3; Stage 1	B
SP-99443	22.078	012		3.0.0	CAMEL3 DTMF Mid-Call corrections and clarifications	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	013		3.0.0	CAMEL3 clean-up of IPLMN and VPLMN references	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	014		3.0.0	Defining successful SM submission to SMSC as EDP (CAMEL3)	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	015		3.0.0	Interworking with SAT and MEXE I	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	016		3.0.0	Correction Annex A.2; Information sent by the CSE	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	017		3.0.0	Corrections to CAMEL interworking with GPRS	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	018		3.0.0	Short Message Submission Handling	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	019		3.0.0	Removing the restriction on the total number of trigger criteria.	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	020		3.0.0	Removing the 40-octet restriction of free format data	approved	3.1.0	CAMEL phase 3; Stage 1	C

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99443	22.078	021		3.0.0	Defining Successful SM submission and Unsuccessful SM submission as EDP-N and EDP-R.	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	022		3.0.0	CAMEL3 corrections to new Trigger Detection Points (TDP)	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	023		3.0.0	Description of CAMEL Subscription Information	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	024		3.0.0	CAMEL3 corrections and clarifications to dialled services (subscribed & serving network)	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99443	22.078	025		3.0.0	Charging clarifications for MO-SMS	approved	3.1.0	CAMEL phase 3; Stage 1	D
SP-99443	22.078	026		3.0.0	CAMEL3 Call Forwarding and new TDP interworking	approved	3.1.0	CAMEL phase 3; Stage 1	B
SP-99443	22.078	027		3.0.0	Support For MSP Phase 2	approved	3.1.0	CAMEL phase 3; Stage 1	C
SP-99443	22.078	028		3.0.0	Addition of CCBS to the SS Invocation Notification	approved	3.1.0	CAMEL phase 3; Stage 1	B
SP-99443	22.078	029		3.0.0	Clarification the behaviour when network provided dialled services are used	approved	3.1.0	CAMEL phase 3; Stage 1	F
SP-99479	22.079	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Optimal Routing; Stage 1	D
SP-99479	22.081	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Line Identification Supplementary Services; Stage 1	D
SP-99479	22.082	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Forwarding (CF) Supplementary Services; Stage 1	D
SP-99479	22.083	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	D
SP-99449	22.083	002		3.0.0	Multicall	approved	3.1.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	B
SP-99479	22.084	001		3.0.0	Editorial changes for alignment	approved	3.0.1	MultParty (MPTY) Supplementary Service; Stage 1	D
SP-99479	22.085	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Closed User Group (CUG) Supplementary Services; Stage 1	D
SP-99479	22.086	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Advice of Charge (AoC) Supplementary Services; Stage 1	D
SP-99450	22.086	002		3.0.0	Multicall	approved	3.1.0	Advice of Charge (AoC) Supplementary Services; Stage 1	B
SP-99479	22.087	001		3.0.0	Editorial changes for alignment	approved	3.0.1	User-to-user signalling (UUS); Stage 1	D
SP-99479	22.088	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Barring (CB) Supplementary Services; Stage 1	D
SP-99479	22.090	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Unstructured Supplementary Service Data (USSD); Stage 1	D
SP-99479	22.091	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	D
SP-99479	22.093	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Completion to Busy Subscriber (CCBS); Stage 1	D
SP-99479	22.096	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Calling Name Presentation (CNAME); Stage 1 (TTP1)	D
SP-99479	22.097	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 1	D
SP-99451	22.097	002		3.0.0	MSP Phase2	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 1	B
SP-99479	22.100	022		3.3.0	Editorial changes for new spec numbering scheme	approved	3.4.0	UMTS Phase 1	D
SP-99479	22.100	023		3.3.0	Editorial changes for terminology	approved	3.4.0	UMTS Phase 1	D
SP-99452	22.100	024		3.3.0	UMTS Phase 1 future releases	approved	3.4.0	UMTS Phase 1	F
SP-99452	22.100	025		3.3.0	Release 99 alignments and corrections	approved	3.4.0	UMTS Phase 1	F
SP-99439	22.100	026		3.3.0	Support of SAT by USIM (was #023)	approved	3.4.0	UMTS Phase 1	F
SP-99479	22.100	027		3.3.0	Editorial changes for references (was #024)	approved	3.4.0	UMTS Phase 1	D

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99435	22.101	022		3.6.0	Clarification of Emergency Call requirements	approved	3.7.0	UMTS Service principles	C
SP-99481	22.101	023		3.6.0	Emergency Calls (regional storage in the ME)	rejected		UMTS Service principles	C
SP-99439	22.101	024		3.6.0	Clarification on the usage on 2G SIM and 3G USIM	approved	3.7.0	UMTS Service principles	B
SP-99439	22.101	025		3.6.0	Support of SAT by USIM	approved	3.7.0	UMTS Service principles	B
SP-99442	22.105	015		3.5.0	Service Capabilities and Service Capabilities Features.	approved	3.6.0	Services & Service capabilities	B
SP-99479	22.105	016		3.5.0	Editorial changes for alignment	approved	3.6.0	Services & Service capabilities	D
SP-99453	22.105	017		3.5.0	Dynamically variable rate QoS requirements	approved	3.6.0	Services & Service capabilities	F
SP-99479	22.105	018		3.5.0	Editorial changes for alignment	approved	3.6.0	Services & Service capabilities	D
SP-99453	22.105	019		3.5.0	Removal of material not in release 99 (was #016)	approved	3.6.0	Services & Service capabilities	D
SP-99479	22.105	020		3.5.0	Editorial changes for alignment (was #017)	approved	3.6.0	Services & Service capabilities	D
SP-99454	22.115	002		3.1.0	clarify the mandatory features supported by the standard	approved	3.2.0	Service Aspects Charging and billing	D
SP-99454	22.115	003		3.1.0	Addition of Charging for Volume of Data and some edits	approved	3.2.0	Service Aspects Charging and billing	B
SP-99442	22.121	002		3.0.0	Virtual Home Environment.	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B
SP-99442	22.121	003		3.0.0	Addition of IP4 Addressing	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B
SP-99442	22.121	004		3.0.0	Charging capabilities	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B
SP-99436	22.129	002		3.0.0	SMS handover requirement clarification	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	F
SP-99436	22.129	003		3.0.0	Removal of out-of-date appendix	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D
SP-99436	22.129	004		3.0.0	Editorial improvements of definitions and alignment of terminology	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D
SP-99436	22.129	005		3.0.0	To elucidate 1-1 handover principle for R99	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	C
SP-99436	22.129	006		3.0.0	Clarification of the scope of mandatory requirements	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D
SP-99436	22.129	007		3.0.0	Removes all non-R99 requirements, by changing them into Cross phase compatibility requirements which apply to R99.	revised		Handover Requirements between UMTS and GSM or other Radio Systems	C
SP-99483	22.129	007	1	3.0.0	Removes all non-R99 requirements, by changing them into Cross phase compatibility requirements which apply to R99.	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	C
SP-99455	22.975	002		3.0.1	CR to 22.975 on Numbering principles	approved	3.1.0	Advanced addressing	B

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat
SP-99440	02.60	A021		6.2.0	Class B mode of operation	agreed-3G	6.3.0	General Packet Radio Service Stage 1 Description	R97	F
SP-99440	02.60	A022		7.2.0	Class B mode of operation	agreed-3G	7.3.0	General Packet Radio Service Stage 1 Description	R98	F
SP-99479	02.60	A023		6.2.0	GPRS Stage 1 removal of example	agreed-3G	6.3.0	General Packet Radio Service Stage 1 Description	R97	D
SP-99479	02.60	A024		7.2.0	GPRS Stage 1 removal of example	agreed-3G	7.3.0	General Packet Radio Service Stage 1 Description	R98	D
SP-99486	02.71	A001	1	7.0.0	Changes to the LCS stage 1 to add support for mobile originated positioning requests, and velocity as a service parameter	agreed-3G	7.1.0	Location Services (LCS) - Stage 1	R98	C
SP-99443	02.78	A041		6.3.0	Introduction of a "Health Warning" on type of numbers sent by the mobile other than "unknown" or "international"	agreed-3G	6.3.1	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)	R97	D

E.2 CRs from SA WG2:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99397	23.002	001		3.0.0	Incorporation of UMTS aspects	approved	3.1.0		B
SP-99398	23.060	001		3.0.0	APN and GGSN selection SDL diagrams	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	002		3.0.0	Ga interface to the GPRS Logical Architecture diagram etc.	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99398	23.060	003		3.0.0	Modification information is not piggybacked	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	F
NP-99260	23.060	003		3.0.0	modification info is not piggybacked	informative		General Packet Radio Service (GPRS) Service description; Stage 2	F
SP-99398	23.060	004	1	3.0.0	MM states in UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	005	2	3.0.0	Introduction of lu Release procedure	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	006	1	3.0.0	Addition of APN parameter in Network-requested PDP context activation procedures	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	007	1	3.0.0	Introduction of Service Request procedure	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	008	2	3.0.0	Introduction of LOCATION REPORTING	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	009		3.0.0	MS and GSN Initiated PDP Context Modification	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	010		3.0.0	Introduction of EGPRS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	014	2	3.0.0	Mobile terminated packet transfer to UE in PMM-Idle state	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	015	2	3.0.0	Clarification on multiplexing of several NSAPIs onto one LLC SAPI	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	A
SP-99398	23.060	016		3.0.0	PDP Context Deactivation during an activation	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	018	2	3.0.0	CR for ch 1 and 4	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	019	1	3.0.0	CR for ch 2 and 3	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	020	1	3.0.0	CR for ch 5	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	021	1	3.0.0	CR for ch 9	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	022	1	3.0.0	CR for ch 7 and 8	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	023	1	3.0.0	CR for ch 13	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	024	1	3.0.0	CR for ch 14	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	025		3.0.0	Extension of PDP type IP to support e.g. End-to-End DHCP or Mobile IP	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	C
SP-99398	23.060	027	1	3.0.0	Addition of Paging Co-ordination for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	028		3.0.0	Modification of the definition and the usage of network operation mode	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99497	23.060	029	1	3.0.0	Restructuring of specification and clean-up of vocabulary	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99398	23.060	030	1	3.0.0	Authentication and security keys agreement for support of GSM-UMTS interoperability	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	031	1	3.0.0	Introduction of UMTS security	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	032		3.0.0	CR for ch 11	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	033	1	3.0.0	CR for ch 12	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	034	1	3.0.0	Procedures for volume-based charging	rejected		General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	036	1	3.0.0	CR to chapters 6.6	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99398	23.060	037	1	3.0.0	Interactions between 3G-SGSN and MSC/VLR for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	038	3	3.0.0	Location Management and attach procedure for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	040		3.0.0	Handling of lost of coverage for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	041	2	3.0.0	Mobility Management states and state transitions for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	042	1	3.0.0	Introduction of UMTS MS classes	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	044	2	3.0.0	UMTS/GPRS handover	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	045	1	3.0.0	GTP sequence number	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-99398	23.060	058	8	3.0.0	Involvement of BSS in QoS provisioning	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	C
SP-99398	23.060	059	1	3.0.0	Parallel handling of multiple user application flows	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B
SP-99399	23.110	002		3.1.0	QoS Parameters alignment to 23.907	approved	3.2.0	UMTS Access Stratum; Services and Functions	F
SP-99399	23.110	003		3.1.0	AS-NAS primitives	approved	3.2.0	UMTS Access Stratum; Services and Functions	F
SP-99400	23.121	001	2	3.0.0	Architecture for multimedia	approved	3.1.0	Architecture Requirements for release 99	B
SP-99400	23.121	003	1	3.0.0	Mobile IP in R99	approved	3.1.0	Architecture Requirements for release 99	D
SP-99400	23.121	006	1	3.0.0	Iu network service for the packet domain	approved	3.1.0	Architecture Requirements for release 99	D
SP-99400	23.121	008		3.0.0	Clarification to MM procedures	approved	3.1.0	Architecture Requirements for release 99	F
SP-99400	23.121	009	1	3.0.0	Allowed network and terminal implementation configurations in UMTS	approved	3.1.0	Architecture Requirements for release 99	B
SP-99400	23.121	012	2	3.0.0	Hierarchical tracking concept, recovery of temporarily lost mobiles, and MM and SM relation - Revised version	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	016		3.0.0	LAI addition for combined area update procedure	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	019		3.0.0	Clarifications on Iu-ps control plane	approved	3.1.0	Architecture Requirements for release 99	D
SP-99400	23.121	023	2	3.0.0	Description of UTRAN coordination	approved	3.1.0	Architecture Requirements for release 99	B
SP-99400	23.121	024	3	3.0.0	SRNC relocation in relation with SGSN change	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	025		3.0.0	LA/RA - URA relationship	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	026		3.0.0	Procedures for volume based charging	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	027	2	3.0.0	Combined location procedures	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	029		3.0.0	Mapping of LA/RA to cells	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	030	1	3.0.0	UMTS - GSM handover	approved	3.1.0	Architecture Requirements for release 99	B
SP-99400	23.121	031		3.0.0	GSM to UMTS HO for CS services	approved	3.1.0	Architecture Requirements for release 99	B
SP-99400	23.121	035	1	3.0.0	GTP tunnel termination point in SRNS relocation for PS domain	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	036		3.0.0	Inter 3G-MSC HO	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	037		3.0.0	Specification of the UMTS Multimedia Call Control Model	approved	3.1.0	Architecture Requirements for release 99	C
SP-99400	23.121	041	1	3.0.0	Change to the current UMTS area concept	approved	3.1.0	Architecture Requirements for release 99	C

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99401	23.920	001	1	3.0.0	Common Communication Channel and Cell Broadcast Service in UMTS	approved	3.1.0	Evolution of the GSM platform towards UMTS	B
SP-99401	23.920	002		3.0.0	Addition of key issues on U-plane lu reference point	approved	3.1.0	Evolution of the GSM platform towards UMTS	D
SP-99401	23.920	003		3.0.0	UHLR and UMAP changed to HLR and MAP	approved	3.1.0	Evolution of the GSM platform towards UMTS	D
SP-99401	23.920	004	1	3.0.0	Turbo Charger	approved	3.1.0	Evolution of the GSM platform towards UMTS	B
SP-99401	23.920	005	3	3.0.0	Use of single MSISDN for CS and PS voice services	approved	3.1.0	Evolution of the GSM platform towards UMTS	C
SP-99401	23.920	008		3.0.0	UMTS - GSM handover	approved	3.1.0	Evolution of the GSM platform towards UMTS	D

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat
NP-99268	03.60	A161	1	6.4.0	PDP Context Deactivation during activation	agreed-3G	6.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	R97	B
NP-99268	03.60	A163	1	7.1.0	PDP Context deactivation during an activation	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	B

E.3 CRs from SA WG3:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99417	33.102	012		3.1.0	Re-organisation of clause 6	approved	3.2.0	Security Architecture	D
SP-99417	33.102	013		3.1.0	Integrity protection procedures	approved	3.2.0	Security Architecture	C
SP-99417	33.102	014		3.1.0	Security of MAP-Based Transmissions	approved	3.2.0	Security Architecture	C
SP-99417	33.102	015		3.1.0	Secure UMTS-GSM Interoperation	approved	3.2.0	Security Architecture	C
SP-99417	33.102	016		3.1.0	Network-wide confidentiality	approved	3.2.0	Security Architecture	C
SP-99417	33.102	017		3.1.0	Authentication Management Field (AMF)	approved	3.2.0	Security Architecture	C
SP-99417	33.102	018		3.1.0	Support for window and list mechanisms for sequence number management in authentication scheme	approved	3.2.0	Security Architecture	C
SP-99417	33.102	019		3.1.0	Modification of text for window and list mechanisms	approved	3.2.0	Security Architecture	D
SP-99495	33.102	020		3.1.0	Cipher/integrity key setting	Corresp approv (ends 26/10)		Security Architecture	C
SP-99496	33.102	021		3.1.0	A generalised scheme for sequence number management	Corresp approv (ends 26/10)		Security Architecture	C
SP-99418	33.105	001		3.0.0	Resources for cryptographic algorithms in the USIM	approved	3.1.0	Cryptographic Algorithm requirements	C
SP-99418	33.105	002		3.0.0	MAC used for data integrity of signalling messages	approved	3.1.0	Cryptographic Algorithm requirements	C
SP-99418	33.105	003		3.0.0	Cipher keystream block length	approved	3.1.0	Cryptographic Algorithm requirements	C

E.4 CRs from SA WG4:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat
SP-99359	26.111	001		3.0.1	Changes to editorial notes.	approved	3.0.2	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	D
SP-99357	26.911	001		3.0.1	Recommendation for video feedback channel support in a 3G-324 terminal	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	B
SP-99358	26.911	002	1	3.0.1	Proposals for updates to implementor's guide for video in 3G-324	approved	3.1.0	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	B

E.5 CRs from SA WG5:

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat
SP-99381	12.15	A015		7.2.1	Correction of code-point for Packet Transfer Command	agreed-3G	7.3.0	General Packet Radio Service (GPRS); GPRS Charging	R98	F
SP-99381	12.15	A016		7.2.1	Inclusion of APN selection mode in CDRs	agreed-3G	7.3.0	General Packet Radio Service (GPRS); GPRS Charging	R98	F

Annex F: Status of all 3GPP CRs after TSG SA #5 Meeting:

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99428	21.900	003		3.1.0	Addition of new text related to electronic working practices	approved	3.2.0	3GPP Working methods	C	SP
SP-99479	22.002	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Bearer Services Supported by a GSM PLMN	D	s1
SP-99446	22.002	002		3.0.0	Bearer Services	approved	3.1.0	Bearer Services Supported by a GSM PLMN	B	s1
SP-99479	22.004	001		3.0.0	Editorial changes for alignment	approved	3.0.1	General on Supplementary Services	D	s1
SP-99479	22.011	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Service accessibility	D	s1
SP-99479	22.016	001		3.0.0	Editorial changes for alignment	approved	3.0.1	International Mobile Equipment Identities (IMEI)	D	s1
SP-99479	22.022	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Personalisation of GSM ME Mobile functionality specification - Stage 1	D	s1
SP-99479	22.024	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Description of Charge Advice Information (CAI)	D	s1
SP-99479	22.030	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	D	s1
SP-99447	22.030	002		3.0.0	Data services streamlining	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C	s1
SP-99447	22.030	003		3.0.0	Support for Anonymous Call Rejection	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	C	s1
SP-99439	22.030	004		3.0.0	Indication to user in case of an error during Data Download	approved	3.1.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	F	s1
SP-99479	22.034	001		3.0.0	Editorial changes for alignment	approved	3.1.0	High Speed Circuit Switched Data (HSCSD) - Stage 1	D	s1
SP-99448	22.034	002		3.0.0	Channel coding asymmetry for ECSD	approved	3.1.0	High Speed Circuit Switched Data (HSCSD) - Stage 1	B	s1
SP-99479	22.041	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Operator Determined Call Barring	D	s1
SP-99441	22.041	002		3.0.0	Addition of explicit requirements for Packet Oriented Services	approved	3.1.0	Operator Determined Call Barring	B	s1
SP-99479	22.042	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Network Identity and Time Zone (NITZ), stage 1	D	s1
SP-99479	22.043	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Localised Service Area (SoLSA) - Stage 1	D	s1
SP-99479	22.057	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Mobile Station Application Execution Environment (MExE); Stage 1	D	s1
SP-99440	22.060	001		3.0.0	Class B mode of operation	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	A	s1
SP-99441	22.060	002		3.0.0	The function that gives the notification of the server IP address from the GPRS network to the subscriber.	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	B	s1
SP-99441	22.060	003		3.0.0	Introduction of Barring for GPRS	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	B	s1
SP-99479	22.060	004		3.0.0	Editorial changes for alignment	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	D	s1
SP-99479	22.060	005		3.0.0	Editorial changes for alignment	approved	3.1.0	General Packet Radio Service (GPRS); Stage 1	D	s1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99479	22.066	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Mobile Number Portability (MNP); Stage 1	D	s1
SP-99479	22.067	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Priority Set-up Service (PSUS); Stage 1 (ASCII spec)	D	s1
SP-99479	22.068	001		3.0.0	Editorial changes for alignment	withdrawn		Voice Group Call Service (VGCS); Stage 1 (ASCII spec)	D	s1
SP-99479	22.069	001		3.0.0	Editorial changes for alignment	withdrawn		Voice Broadcast Service (VBS); Stage 1 (ASCII spec)	D	s1
SP-99486	22.071	001	1	3.0.0	UMTS LCS service requirements support for mobile originated positioning requests, and velocity as a service parameter	approved		Location Services (LCS); Stage 1 (T1P1)	C	s1
SP-99438	22.071	002		3.0.0	UMTS LCS service requirements	approved	3.1.0	Location Services (LCS); Stage 1 (T1P1)	B	s1
SP-99438	22.071	003		3.0.0	LCS accuracy requirements	approved	3.1.0	Location Services (LCS); Stage 1 (T1P1)	C	s1
SP-99479	22.071	004		3.0.0	Editorial changes for alignment	approved	3.1.0	Location Services (LCS); Stage 1 (T1P1)	D	s1
SP-99479	22.072	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Deflection (CD); Stage 1	D	s1
SP-99443	22.078	001		3.0.0	CAMEL control of packet switched MO SMS	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	002		3.0.0	CAMEL control of packet switched MO SMS	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	003		3.0.0	CSE related overload control	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	004		3.0.0	Clarify the serving network behaviour when instructions from the CSE are received.	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	005		3.0.0	Inclusion of Service Key in Mobility Management event notifications + editorial modifications	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	006		3.0.0	Clarification the behaviour when network provided dialled services are used.	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	007		3.0.0	Correct the unsuccessful call establishment procedure for MT calls	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	008		3.0.0	GSM 02.78 Clean-up of CAMEL phase information	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	009		3.0.0	Clarification on the type of number used by mobile stations.	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	010		3.0.0	Editorial update of references for GSM/3GPP use.	approved	3.1.0	CAMEL phase 3; Stage 1	D	s1
SP-99443	22.078	011		3.0.0	CAMEL3 interworking with GPRS; Change of position	approved	3.1.0	CAMEL phase 3; Stage 1	B	s1
SP-99443	22.078	012		3.0.0	CAMEL3 DTMF Mid-Call corrections and clarifications	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	013		3.0.0	CAMEL3 clean-up of IPLMN and VPLMN references	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	014		3.0.0	Defining successful SM submission to SMSC as EDP (CAMEL3)	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	015		3.0.0	Interworking with SAT and MEXE !	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	016		3.0.0	Correction Annex A.2; Information sent by the CSE	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99443	22.078	017		3.0.0	Corrections to CAMEL interworking with GPRS	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	018		3.0.0	Short Message Submission Handling	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	019		3.0.0	Removing the restriction on the total number of trigger criteria.	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	020		3.0.0	Removing the 40-octet restriction of free format data	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	021		3.0.0	Defining Successful SM submission and Unsuccessful SM submission as EDP-N and EDP-R.	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	022		3.0.0	CAMEL3 corrections to new Trigger Detection Points (TDP)	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	023		3.0.0	Description of CAMEL Subscription Information	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	024		3.0.0	CAMEL3 corrections and clarifications to dialled services (subscribed & serving network)	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99443	22.078	025		3.0.0	Charging clarifications for MO-SMS	approved	3.1.0	CAMEL phase 3; Stage 1	D	s1
SP-99443	22.078	026		3.0.0	CAMEL3 Call Forwarding and new TDP interworking	approved	3.1.0	CAMEL phase 3; Stage 1	B	s1
SP-99443	22.078	027		3.0.0	Support For MSP Phase 2	approved	3.1.0	CAMEL phase 3; Stage 1	C	s1
SP-99443	22.078	028		3.0.0	Addition of CCBS to the SS Invocation Notification	approved	3.1.0	CAMEL phase 3; Stage 1	B	s1
SP-99443	22.078	029		3.0.0	Clarification the behaviour when network provided dialled services are used	approved	3.1.0	CAMEL phase 3; Stage 1	F	s1
SP-99479	22.079	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Support of Optimal Routing; Stage 1	D	s1
SP-99479	22.081	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Line Identification Supplementary Services; Stage 1	D	s1
SP-99479	22.082	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Forwarding (CF) Supplementary Services; Stage 1	D	s1
SP-99479	22.083	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	D	s1
SP-99449	22.083	002		3.0.0	Multicall	approved	3.1.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	B	s1
SP-99479	22.084	001		3.0.0	Editorial changes for alignment	approved	3.0.1	MultParty (MPPTY) Supplementary Service; Stage 1	D	s1
SP-99479	22.085	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Closed User Group (CUG) Supplementary Services; Stage 1	D	s1
SP-99479	22.086	001		3.0.0	Editorial changes for alignment	approved	3.1.0	Advice of Charge (AoC) Supplementary Services; Stage 1	D	s1
SP-99450	22.086	002		3.0.0	Multicall	approved	3.1.0	Advice of Charge (AoC) Supplementary Services; Stage 1	B	s1
SP-99479	22.087	001		3.0.0	Editorial changes for alignment	approved	3.0.1	User-to-user signalling (UUS); Stage 1	D	s1
SP-99479	22.088	001		3.0.0	Editorial changes for alignment	approved	3.0.1	Call Barring (CB) Supplementary Services; Stage 1	D	s1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99479	22.090	001	3.0.0	3.0.0	Editorial changes for alignment	approved	3.0.1	Unstructured Supplementary Service Data (USSD); Stage 1	D	s1
SP-99479	22.091	001	3.0.0	3.0.0	Editorial changes for alignment	approved	3.0.1	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	D	s1
SP-99479	22.093	001	3.0.0	3.0.0	Editorial changes for alignment	approved	3.0.1	Call Completion to Busy Subscriber (CCBS); Stage 1	D	s1
SP-99479	22.096	001	3.0.0	3.0.0	Editorial changes for alignment	approved	3.0.1	Calling Name Presentation (CNAP); Stage 1 (T1P1)	D	s1
SP-99479	22.097	001	3.0.0	3.0.0	Editorial changes for alignment	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 1	D	s1
SP-99451	22.097	002	3.0.0	3.0.0	MSP Phase2	approved	3.1.0	Multiple Subscriber Profile (MSP); Stage 1	B	s1
SP-99479	22.100	022	3.3.0	3.3.0	Editorial changes for new spec numbering scheme	approved	3.4.0	UMTS Phase 1	D	s1
SP-99479	22.100	023	3.3.0	3.3.0	Editorial changes for terminology	approved	3.4.0	UMTS Phase 1	D	s1
SP-99452	22.100	024	3.3.0	3.3.0	UMTS Phase 1 future releases	approved	3.4.0	UMTS Phase 1	F	s1
SP-99452	22.100	025	3.3.0	3.3.0	Release 99 alignments and corrections	approved	3.4.0	UMTS Phase 1	F	s1
SP-99439	22.100	026	3.3.0	3.3.0	Support of SAT by USIM (was #023)	approved	3.4.0	UMTS Phase 1	F	s1
SP-99479	22.100	027	3.3.0	3.3.0	Editorial changes for references (was #024)	approved	3.4.0	UMTS Phase 1	D	s1
SP-99435	22.101	022	3.6.0	3.6.0	Clarification of Emergency Call requirements	approved	3.7.0	UMTS Service principles	C	s1
SP-99481	22.101	023	3.6.0	3.6.0	Emergency Calls (regional storage in the ME)	rejected		UMTS Service principles	C	s1
SP-99439	22.101	024	3.6.0	3.6.0	Clarification on the usage on 2G SIM and 3G USIM	approved	3.7.0	UMTS Service principles	B	s1
SP-99439	22.101	025	3.6.0	3.6.0	Support of SAT by USIM	approved	3.7.0	UMTS Service principles	B	s1
SP-99442	22.105	015	3.5.0	3.5.0	Service Capabilities and Service Capabilities Features.	approved	3.6.0	Services & Service capabilities	B	s1
SP-99479	22.105	016	3.5.0	3.5.0	Editorial changes for alignment	approved	3.6.0	Services & Service capabilities	D	s1
SP-99453	22.105	017	3.5.0	3.5.0	Dynamically variable rate QoS requirements	approved	3.6.0	Services & Service capabilities	F	s1
SP-99479	22.105	018	3.5.0	3.5.0	Editorial changes for alignment	approved	3.6.0	Services & Service capabilities	D	s1
SP-99453	22.105	019	3.5.0	3.5.0	Removal of material not in release 99 (was #016)	approved	3.6.0	Services & Service capabilities	D	s1
SP-99479	22.105	020	3.5.0	3.5.0	Editorial changes for alignment (was #017)	approved	3.6.0	Services & Service capabilities	D	s1
SP-99454	22.115	002	3.1.0	3.1.0	clarify the mandatory features supported by the standard	approved	3.2.0	Service Aspects Charging and billing	D	s1
SP-99454	22.115	003	3.1.0	3.1.0	Addition of Charging for Volume of Data and some edits	approved	3.2.0	Service Aspects Charging and billing	B	s1
SP-99442	22.121	002	3.0.0	3.0.0	Virtual Home Environment.	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B	s1
SP-99442	22.121	003	3.0.0	3.0.0	Addition of IP4 Addressing	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B	s1
SP-99442	22.121	004	3.0.0	3.0.0	Charging capabilities	approved	3.1.0	Provision of Services in UMTS - The Virtual Home Environment	B	s1
SP-99436	22.129	002	3.0.0	3.0.0	SMS handover requirement clarification	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	F	s1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99436	22.129	003		3.0.0	Removal of out-of-date appendix	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D	s1
SP-99436	22.129	004		3.0.0	Editorial improvements of definitions and alignment of terminology	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D	s1
SP-99436	22.129	005		3.0.0	To elucidate 1-1 handover principle for R99	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	C	s1
SP-99436	22.129	006		3.0.0	Clarification of the scope of mandatory requirements	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	D	s1
SP-99436	22.129	007		3.0.0	Removes all non-R99 requirements, by changing them into Cross phase compatibility requirements which apply to R99.	revised		Handover Requirements between UMTS and GSM or other Radio Systems	C	s1
SP-99483	22.129	007	1	3.0.0	Removes all non-R99 requirements, by changing them into Cross phase compatibility requirements which apply to R99.	approved	3.1.0	Handover Requirements between UMTS and GSM or other Radio Systems	C	s1
SP-99455	22.975	002		3.0.1	CR to 22.975 on Numbering principles	approved	3.1.0	Advanced addressing	B	s1
SP-99397	23.002	001		3.0.0	Incorporation of UMTS aspects	approved	3.1.0		B	S2
NP-99300	23.003	007	1	3.1.3	ASCII coding of <MNC> and <MCC> in APN OI	approved	3.2.0	Numbering, Addressing and Identification	A	N2
NP-99306	23.003	008		3.1.3	SSN allocation for RANAP, RNSAP	approved	3.2.0	Numbering, Addressing and Identification	B	N2
NP-99301	23.008	002	1	3.0.0	IST for non-CAMEL subscribers	approved	3.1.0	Organisation of subscriber data	B	N2
NP-99301	23.016	003	1	3.0.0	IST for non-CAMEL subscribers	approved	3.1.0	Subscriber data management - Stage 2	B	N2
NP-99304	23.018	002	4	3.1.0	Addition of the description for Pre-paging	approved	3.2.0	Basic Call Handling - Technical realisation	B	N2
NP-99298	23.018	006		3.1.0	Removal of TDP-Criteria from RCH	approved	3.2.0	Basic Call Handling - Technical realisation	A	N2
NP-99298	23.018	007	1	3.1.0	GMSC CAMEL Phases in PRN	approved	3.2.0	Basic Call Handling - Technical realisation	A	N2
NP-99308	23.018	023		3.1.0	Separation of success & failure cases for OR of late call forwarding	approved	3.2.0	Basic Call Handling - Technical realisation	A	N2
NP-99298	23.018	024		3.1.0	Notification of CF to gsmSCF before activation of CF process Forward in process due to asymmetry for ECSD	approved	3.2.0	Basic Call Handling - Technical realisation	A	N2
NP-99269	23.034	001	1	3.0.0		approved	3.1.0	High Speed Circuit Switched Data (HSCSD) - Stage 2	B	N1
TP-99177	23.038	002		3.1.0	Language codes for Hebrew, Arabic and Russian	approved	3.2.0	Alphabets & Language	B	T2
TP-99177	23.040	003		3.1.0	Change to reserved port number range for SMS	approved	3.2.0	Technical realisation of SMS Point to Point	C	T2
TP-99177	23.040	004		3.1.0	New TP-PID value for delivery of ANSI-136 Short Messages	approved	3.2.0	Technical realisation of SMS Point to Point	B	T2
TP-99177	23.040	005		3.1.0	EI values in concatenated SM's	approved	3.2.0	Technical realisation of SMS Point to Point	D	T2
SP-99398	23.060	001		3.0.0	APN and GGSN selection SDL diagrams	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	002		3.0.0	Ga interface to the GPRS Logical Architecture diagram etc.	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99398	23.060	003	3.0.0	3.0.0	Modification information is not piggybacked	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
NP-99260	23.060	003	3.0.0	3.0.0	modification info is not piggybacked	informative		General Packet Radio Service (GPRS) Service description; Stage 2	F	S2
SP-99398	23.060	004	1	3.0.0	MM states in UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	005	2	3.0.0	Introduction of lu Release procedure	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	006	1	3.0.0	Addition of APN parameter in Network-requested PDP context activation procedures	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	007	1	3.0.0	Introduction of Service Request procedure	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	008	2	3.0.0	Introduction of LOCATION REPORTING	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	009		3.0.0	MS and GSN Initiated PDP Context Modification	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	010		3.0.0	Introduction of EGPRS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	014	2	3.0.0	Mobile terminated packet transfer to UE in PIMM-Idle state	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	015	2	3.0.0	Clarification on multiplexing of several NSAPIs onto one LLC SAPI	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	A	S2
SP-99398	23.060	016		3.0.0	PDP Context Deactivation during an activation	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	018	2	3.0.0	CR for ch 1 and 4	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	019	1	3.0.0	CR for ch 2 and 3	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	020	1	3.0.0	CR for ch 5	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	021	1	3.0.0	CR for ch 9	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	022	1	3.0.0	CR for ch 7 and 8	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	023	1	3.0.0	CR for ch 13	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	024	1	3.0.0	CR for ch 14	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	025		3.0.0	Extension of PDP type IP to support e.g. End-to-End DHCP or Mobile IP	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	C	S2
SP-99398	23.060	027	1	3.0.0	Addition of Paging Co-ordination for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	028		3.0.0	Modification of the definition and the usage of network operation mode	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99497	23.060	029	1	3.0.0	Restructuring of specification and clean-up of vocabulary	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
SP-99398	23.060	030	1	3.0.0	Authentication and security keys agreement for support of GSM-UMTS interoperability	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	031	1	3.0.0	Introduction of UMTS security	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	032		3.0.0	CR for ch 11	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	033	1	3.0.0	CR for ch 12	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	034	1	3.0.0	Procedures for volume-based charging	rejected		General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	036	1	3.0.0	CR to chapters 6.6	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	037	1	3.0.0	Interactions between 3G-SGSN and MSC/VLR for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	038	3	3.0.0	Location Management and attach procedure for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	040		3.0.0	Handling of lost of coverage for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	041	2	3.0.0	Mobility Management states and state transitions for UMTS	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	042	1	3.0.0	Introduction of UMTS MS classes	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	044	2	3.0.0	UMTS/GPRS handover	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	045	1	3.0.0	GTP sequence number	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2		S2
SP-99398	23.060	058	8	3.0.0	Involvement of BSS in QoS provisioning	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	C	S2
SP-99398	23.060	059	1	3.0.0	Parallel handling of multiple user application flows	approved	3.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	B	S2
NP-99302	23.066	001		3.0.0	Harmonisation of terminology	approved	3.1.0	Support of GSM Mobile Number Portability (MNP) stage 2	A	N2
NP-99302	23.066	002		3.0.0	Proposed changes to B.4.2 Delivery of SMS to a Non-ported	approved	3.1.0	Support of GSM Mobile Number Portability (MNP) stage 2	A	N2
NP-99302	23.066	003		3.1.0	Clarification of NPLR functionality in not known to be ported case	approved	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	A	N2
NP-99239	23.072	001		3.0.0	Inclusion of the SS Invocation Notification Procedure Subscriber"	approved	3.1.0	Call Deflection Supplementary Service - Stage 2	F	NS
NP-99241	23.072	003		3.0.0	Separation of success & failure cases for OR of late call forwarding	approved	3.1.0	Call Deflection Supplementary Service - Stage 2	A	NS
NP-99298	23.078	019		3.1.0	Inclusion of the SS Invocation Notification Procedure	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	021		3.1.0	Removal of TDP-Criteria from RCH	approved	3.2.0	CAMEL Stage 2	A	N2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
NP-99298	23.078	022	1	3.1.0	GMSC CAMEL Phases in PRN	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	023	1	3.1.0	Cal Reference Number	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	025		3.1.0	Clarification on handling of Call Reference Number and GMSC address	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	027		3.1.0	Value of Call Active parameter in ACR operation - clarifications in the SDL	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	028		3.1.0	Corrections of process gsmSSF SDL	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99298	23.078	029		3.1.0	Alignment of CAMEL2 FCI & Handling of CIR	approved	3.2.0	CAMEL Stage 2	A	N2
NP-99307	23.079	001		3.1.0	OR Capability IE in PRN	approved	3.2.0	Support of optical routing - Phase 1 - Stage 2	A	N2
NP-99298	23.079	003		3.1.0	Removal of TDP-Criteria from RCH	approved	3.2.0	Support of optical routing - Phase 1 - Stage 2	A	N2
NP-99308	23.079	005	1	3.1.0	Separation of success & failure cases for OR of late call forwarding	approved	3.2.0	Support of optical routing - Phase 1 - Stage 2	A	N2
NP-99298	23.079	006		3.1.0	Notification of CF to gsmSCF before activation of CF process Forwarding process	approved	3.2.0	Support of optical routing - Phase 1 - Stage 2	A	N2
NP-99303	23.079	007		3.1.0	Handling of Release during forwarding interrogation of the	approved	3.2.0	Support of optical routing - Phase 1 - Stage 2	A	N2
NP-99326	23.082	001		3.0.0	Addition of the description related to Pre-Paging in case of "Absent Subscriber"	approved	3.1.0	Call Forwarding (CF) Supplementary Services - Stage 2	B	NS
NP-99240	23.097	001		3.0.0	Various editorial corrections	approved	3.0.1	Multiple Subscriber Profile (MSP); Stage 2	D	NS
SP-99399	23.110	002		3.1.0	QoS Parameters alignment to 23.907	approved	3.2.0	UMTS Access Stratum; Services and Functions	F	S2
SP-99399	23.110	003		3.1.0	AS-NAS primitives	approved	3.2.0	UMTS Access Stratum; Services and Functions	F	S2
SP-99400	23.121	001	2	3.0.0	Architecture for multimedia	approved	3.1.0	Architecture Requirements for release 99	B	S2
SP-99400	23.121	003	1	3.0.0	Mobile IP in R99	approved	3.1.0	Architecture Requirements for release 99	D	S2
SP-99400	23.121	006	1	3.0.0	Iu network service for the packet domain	approved	3.1.0	Architecture Requirements for release 99	D	S2
SP-99400	23.121	008		3.0.0	Clarification to MM procedures	approved	3.1.0	Architecture Requirements for release 99	F	S2
SP-99400	23.121	009	1	3.0.0	Allowed network and terminal implementation configurations in UMTS	approved	3.1.0	Architecture Requirements for release 99	B	S2
SP-99400	23.121	012	2	3.0.0	Hierarchical tracking concept, recovery of temporarily lost mobiles, and MM and SM relation - Revised version	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	016		3.0.0	LAI addition for combined area update procedure	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	019		3.0.0	Clarifications on Iu-ps control plane	approved	3.1.0	Architecture Requirements for release 99	D	S2
SP-99400	23.121	023	2	3.0.0	Description of UTRAN coordination	approved	3.1.0	Architecture Requirements for release 99	B	S2
SP-99400	23.121	024	3	3.0.0	SRNC relocation in relation with SGSN change	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	025		3.0.0	LA/RA - URA relationship	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	026		3.0.0	Procedures for volume based charging	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	027	2	3.0.0	Combined location procedures	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	029		3.0.0	Mapping of LA/RA to cells	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	030	1	3.0.0	UMTS - GSM handover	approved	3.1.0	Architecture Requirements for release 99	B	S2
SP-99400	23.121	031		3.0.0	GSM to UMTS HO for CS services	approved	3.1.0	Architecture Requirements for release 99	B	S2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99400	23.121	035	1	3.0.0	GTP tunnel termination point in SRNS relocation for PS domain	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	036		3.0.0	Inter 3G-MSC HO	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	037		3.0.0	Specification of the UMTS Multimedia Call Control Model	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99400	23.121	041	1	3.0.0	Change to the current UMTS area concept	approved	3.1.0	Architecture Requirements for release 99	C	S2
SP-99401	23.920	001	1	3.0.0	Common Communication Channel and Cell Broadcast Service in UMTS	approved	3.1.0	Evolution of the GSM platform towards UMTS	B	S2
SP-99401	23.920	002		3.0.0	Addition of key issues on U-plane lu reference point	approved	3.1.0	Evolution of the GSM platform towards UMTS	D	S2
SP-99401	23.920	003		3.0.0	UHLR and UMAP changed to HLR and MAP Turbo Charger	approved	3.1.0	Evolution of the GSM platform towards UMTS	D	S2
SP-99401	23.920	004	1	3.0.0		approved	3.1.0	Evolution of the GSM platform towards UMTS	B	S2
SP-99401	23.920	005	3	3.0.0	Use of single MSISDN for CS and PS voice services	approved	3.1.0	Evolution of the GSM platform towards UMTS	C	S2
SP-99401	23.920	008		3.0.0	UMTS - GSM handover	approved	3.1.0	Evolution of the GSM platform towards UMTS	D	S2
NP-99268	24.007	002	1	3.0.0	Addition of LL-STATUS_IND	approved	3.1.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	A	N1
NP-99268	24.008	002		3.0.1	Addition of 3rd MNC digit in Routing Area Identification and correction of LA1	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	004		3.0.1	GMM attempt counters	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	005		3.0.1	Cell change during GPRS Detach procedure	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	006		3.0.1	RA change in GMM-ROUTING_AREA_UPDATE_INITIATED	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	007		3.0.1	non power down cause detach during attach	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	008		3.0.1	Receive N-PDU Number list IE padding bits	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	009		3.0.1	PDP context deactivation caused by LLC failure	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	010	1	3.0.1	CM request and combined GMM procedures	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	011	1	3.0.1	T3212 restart after GPRS detach (marked as 031 on cover)	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	012		3.0.1	Changing Call Mode	withdrawn		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	013	1	3.0.1	TMSI status indication	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99269	24.008	014	1	3.0.1	due to asymmetry for ECSD	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99268	24.008	015		3.0.1	RAU Complete not returned for TMSI deallocation. Some alignments and editorials	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
NP-99268	24.008	016		3.0.1	Clarification of the Detach Type "re-attach required" or "re-attach not required" in the network initiated Detach procedure	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	018		3.0.0	Addition of Access Point Name in Request PDP Context Activation message	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
NP-99268	24.008	019	1	3.0.1	CR clash in sec. 4.7.3.2.6	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	020		3.0.1	CR clash in sec. 4.7.3.2.3.2 and 4.7.5.2.3.2	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	F	N1
NP-99268	24.008	021	1	3.0.1	T3212 restart after RAU reject	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	022		3.0.1	New State GMM-REGISTERED IMSI-DETACH-INITIATED	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	023		3.0.1	Deactivate AA PDP context request message	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	024	2	3.0.1	Coding Scheme in Network Name IE	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99268	24.008	025		3.0.1	Paging Response as a MM message	postponed		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	A	N1
NP-99269	24.008	028	1	3.0.1	MS RADIO ACCESS CAPABILITY IE DUE TO EDGE	approved	3.1.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	B	N1
RP-99460	25.301	004		3.1.0	Modification of C-RNTI definition	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	005		3.1.0	Addition of integrity protection function on RRC	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	006		3.1.0	Clarification on the usage of CCCH vs DCCH logical channels	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	007		3.1.0	Removal of Quick repeat function from RLC	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99575	25.301	008		3.1.0	Introduction of Packet Data Convergence Protocol (PDCP) in the protocol architecture	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	009		3.1.0	Deletion of Annex B (informative)	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	010		3.1.0	Correction of Ciphering specification (editorial correction)	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	011	2	3.1.0	Broadcast/Multicast functions	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	012		3.1.0	Description of Timing Advance mechanism for TDD	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	013		3.1.0	MAC primitives addition and modification (harmonization of TDD with FDD)	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	014		3.1.0	Impact of two cipher key solution on multiplexing at RLC and MAC level	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	015	1	3.1.0	Support of Different Access Service Classes (clarification of present text)	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	016	1	3.1.0	Support of USCH/DSCH signalling (introduction of SHCCH, see TS 25.321)	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	017		3.1.0	DCCH mapped to DCH in RLC transparent mode	approved	3.2.0	Radio Interface Protocol Architecture	B	R2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
RP-99460	25.301	018	1	3.1.0	Mapping of BCCH logical channel onto FACH transport channel	revised		Radio Interface Protocol Architecture	C	R2
RP-99576	25.301	018	2	3.1.0	Mapping of BCCH logical channel onto FACH transport channel	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	019	1	3.1.0	MAC PDU format for PCCH	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	020	3.1.0	3.1.0	Editorial changes regarding shared channels for TDD	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	021	3.1.0	3.1.0	Support of Uplink Synchronization Feature in UL channels (TDD only)	approved	3.2.0	Radio Interface Protocol Architecture	B	R2
RP-99460	25.301	022	3.1.0	3.1.0	RRC functions	approved	3.2.0	Radio Interface Protocol Architecture	C	R2
RP-99460	25.301	023	3.1.0	3.1.0	Modification of termination point for BCH	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	024	3.1.0	3.1.0	Updated description of UE modes	approved	3.2.0	Radio Interface Protocol Architecture	D	R2
RP-99460	25.301	025	3.1.0	3.1.0	Enhanced protocol architecture	approved	3.2.0	Radio Interface Protocol Architecture	?	R2
RP-99461	25.302	001	3.0.0	3.0.0	Making all transport block equally sized within a transport block set	approved	3.1.0	Services provided by the physical layer	C	R2
RP-99461	25.302	002	1	3.0.0	UE Simultaneous Physical Channel Combinations in TDD Mode	approved	3.1.0	Services provided by the physical layer	C	R2
RP-99461	25.302	003	3.0.0	3.0.0	New CPCH parameters for physical layer primitives	postponed		Services provided by the physical layer	C	R2
RP-99461	25.302	004	3.0.0	3.0.0	Timing advance (TDD only)	approved	3.1.0	Services provided by the physical layer	B	R2
RP-99461	25.302	005	3.0.0	3.0.0	Measurements for TDD provided by physical layer	approved	3.1.0	Services provided by the physical layer	B	R2
RP-99461	25.302	006	3.0.0	3.0.0	Change of the Downlink model of the UE in relation to PCH	approved	3.1.0	Services provided by the physical layer	C	R2
RP-99461	25.302	007	3.0.0	3.0.0	Physical channel description for TDD	approved	3.1.0	Services provided by the physical layer	F	R2
RP-99461	25.302	008	3.0.0	3.0.0	Attributes of the semi-static part and coding terminology	approved	3.1.0	Services provided by the physical layer	D	R2
RP-99461	25.302	009	3.0.0	3.0.0	Editorial changes following LS received from WG1	approved	3.1.0	Services provided by the physical layer	D	R2
RP-99461	25.302	010	3.0.0	3.0.0	Support of Uplink Synchronization Feature in UL channels (TDD only)	approved	3.1.0	Services provided by the physical layer	B	R2
RP-99461	25.302	011	3.0.0	3.0.0	Simultaneous reception of AICH and S-CCPCH	approved	3.1.0	Services provided by the physical layer	C	R2
RP-99461	25.302	012	3.0.0	3.0.0	Removal of Measurement Precision Requirements	approved	3.1.0	Services provided by the physical layer	D	R2
RP-99461	25.302	013	3.0.0	3.0.0	Compressed mode	approved	3.1.0	Services provided by the physical layer	D	R2
RP-99461	25.302	014	3.0.0	3.0.0	Change of the model of the UE with respect to shared channel multiplexing	approved	3.1.0	Services provided by the physical layer	D	R2
RP-99462	25.303	001	3.0.0	3.0.0	RRC connection establishment procedure	approved	3.1.0	UE functions and inter-layer procedures in connected mode	F	R2
RP-99462	25.303	002	1	3.0.0	RRC Connection release procedure	approved	3.1.0	UE functions and inter-layer procedures in connected mode	F	R2
RP-99462	25.303	003	3.0.0	3.0.0	Cell update and URA update procedures	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
RP-99462	25.303	004	3.0.0	3.0.0	Removal of FFS in DSCH transmission example	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	005	3.0.0	3.0.0	Incorporation of DSCH transmission with one TFCI	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	006	3.0.0	3.0.0	RRC Traffic Volume Monitoring Procedure	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	007	3.0.0	3.0.0	Transfer and update of system information	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	008	3.0.0	3.0.0	UE controlled AMR mode adaptation	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	009	3.0.0	3.0.0	Model of RACH procedures	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	011	3.0.0	3.0.0	Editorial changes in some stated definitions involving FAUSCH	withdrawn		UE functions and inter-layer procedures in connected mode	D	R2
RP-99462	25.303	012	3.0.0	3.0.0	USCH/DSCH data transfer for TDD	approved	3.1.0	UE functions and inter-layer procedures in connected mode	B	R2
RP-99462	25.303	013	3.0.0	3.0.0	Removal of UE State Description	approved	3.1.0	UE functions and inter-layer procedures in connected mode	D	R2
RP-99462	25.303	014	3.0.0	3.0.0	Editorial renaming request	approved	3.1.0	UE functions and inter-layer procedures in connected mode	D	R2
RP-99462	25.303	015	3.0.0	3.0.0	Release version for Asymmetric transport channel reconfiguration procedure	approved	3.1.0	UE functions and inter-layer procedures in connected mode	D	R2
RP-99462	25.303	016	3.0.0	3.0.0	Example message sequence for RACH transmissions in TDD mode	approved	3.1.0	UE functions and inter-layer procedures in connected mode	C	R2
RP-99463	25.321	001	1	3.0.0	Modified MAC handling of PCH and FACH	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	002	3.0.0	3.0.0	Modifications of MAC primitives	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	003	2	3.0.0	RACH/FACH MAC header – Channel type identification	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	B	R2
RP-99463	25.321	004	3.0.0	3.0.0	Support for USCH/DSCH signalling in TDD	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	B	R2
RP-99463	25.321	005	3.0.0	3.0.0	Restructuring of Annex B (removing redundant information regarding CPCH)	withdrawn		Medium Access Control (MAC) Protocol Specification	F	R2
RP-99463	25.321	006	3.0.0	3.0.0	Clarification on RACH partitioning and prioritization via access service class (ASC) and relation to back-off algorithm	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	010	1	3.0.0	Modifications on UE-Id formats	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	011	3.0.0	3.0.0	CPCH primitives	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	012	3.0.0	3.0.0	Timing advance for TDD	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	B	R2
RP-99463	25.321	013	1	3.0.0	Traffic volume measurement report procedure	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	B	R2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
RP-99463	25.321	014		3.0.0	Mapping of BCCH logical channel onto FACH transport channel	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	015	1	3.0.0	MAC PDU formats for DCCH/DTCH on DSCH and for PCCH	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	016	1	3.0.0	Informative parts that shall not specify or constrain implementations	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	D	R2
RP-99463	25.321	017	1	3.0.0	Modification of RACH transmission control procedure	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	018		3.0.0	Removal of MAC function for system information and paging scheduling	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	D	R2
RP-99463	25.321	019	1	3.0.0	RACH transmission control procedure on MAC for TDD mod	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	020	1	3.0.0	MAC procedure for control of CPCH transmission	postponed		Medium Access Control (MAC) Protocol Specification	C	R2
RP-99463	25.321	021	1	3.0.0	Removal of Annex A and B of TS 25.321	approved	3.1.0	Medium Access Control (MAC) Protocol Specification	D	R2
RP-99514	25.412	001		3.0.0	SCTP Evaluation	approved	3.1.0	UTRAN Iu interface signalling transport	D	R3
RP-99514	25.412	002		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iu interface signalling transport	B	R3
RP-99517	25.414	001		3.0.0	Mapping of binding id	approved	3.1.0	UTRAN Iu interface data transport & transport signalling	D	R3
RP-99517	25.414	002		3.0.0	Reference to GTP-U protocol specification	approved	3.1.0	UTRAN Iu interface data transport & transport signalling	F	R3
RP-99517	25.414	003		3.0.0	The use of Classical IP over ATM over the Iu interface	approved	3.1.0	UTRAN Iu interface data transport & transport signalling	F	R3
RP-99517	25.414	004		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iu interface data transport & transport signalling	B	R3
RP-99515	25.422	001		3.0.0	SCTP Evaluation	approved	3.1.0	UTRAN Iur interface signalling transport	D	R3
RP-99515	25.422	002		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iur interface signalling transport	B	R3
RP-99518	25.424	001		3.0.0	Mapping of binding id	approved	3.1.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	D	R3
RP-99518	25.424	002		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	B	R3
RP-99520	25.426	001		3.0.0	Mapping of binding id	approved	3.1.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	D	R3
RP-99520	25.426	002		3.0.0	Iur ALCAP Signalling Bearer and SCTP Evaluation	approved	3.1.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	B	R3
RP-99520	25.426	003		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	B	R3
RP-99516	25.432	001		3.0.0	Iub NBAP Signalling Bearer	approved	3.1.0	UTRAN Iub interface signalling transport	F	R3
RP-99516	25.432	002		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iub interface signalling transport	B	R3
RP-99519	25.434	001		3.0.0	Mapping of binding id	approved	3.1.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	D	R3
RP-99519	25.434	002		3.0.0	ATM switching layer	approved	3.1.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	B	R3

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99359	26.111	001		3.0.1	Changes to editorial notes.	approved	3.0.2	Codec for Circuit-switched Multimedia Telephony Service; Modifications to H.324	D	S4
SP-99357	26.911	001		3.0.1	Recommendation for video feedback channel support in a 3G-324 terminal	approved	3.1.0	Codec for Circuit-switched Multimedia Telephony Service; Terminal Implementor's Guide	B	S4
SP-99358	26.911	002	1	3.0.1	Proposals for updates to implementor's guide for video in 3G-324	approved	3.1.0	Codec for Circuit-switched Multimedia Telephony Service; Terminal Implementor's Guide	B	S4
NP-99283	27.001	002		3.1.0	Asymmetry in EDGE	approved	3.2.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	B	N3
NP-99283	27.001	003		3.1.0	EDGE related Correction	approved	3.2.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	F	N3
TP-99177	27.007	006		3.1.0	ECSD AT command correction	approved	3.2.0	AT command set for 3G User Equipment (UE)	D	T2
TP-99177	27.007	007		3.1.0	Alarm functionality	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	008		3.1.0	Phonebook storage	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	009		3.1.0	Time Zone	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	010		3.1.0	Additional result code for +CSSN	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	011		3.1.0	New command for setting of Date format	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	012		3.1.0	New command for Silent mode	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	013		3.1.0	New command for setting of Time format	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	014		3.1.0	GSM 400 Spectrum update	approved	3.2.0	AT command set for 3G User Equipment (UE)	B	T2
TP-99177	27.007	015		3.1.0	AT command - Request GPRS service 'D'	approved	3.2.0	AT command set for 3G User Equipment (UE)	A	T2
TP-99177	27.010	003		3.1.0	Clarification of CR bit	approved	3.2.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	A	T2
TP-99177	27.010	004		3.1.0	Correction of the bits in the start and close flags of the frame in the example on Annex B	approved	3.2.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	A	T2
NP-99282	27.060	005		3.1.0	AT Commands	approved	3.2.0	GPRS Mobile Stations supporting GPRS	A	N3
NP-99298	29.002	021		3.1.0	Clarification on VLR CAMEL Subscription Info	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99298	29.002	022		3.1.0	Clarification on Destination Number Criteria	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99298	29.002	023		3.1.0	Removal of TDP criteria from RCH	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99298	29.002	024	1	3.1.0	GSM CAMEL Phase 2 support IE in PRN	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99300	29.002	025		3.1.0	Corrections related to GGSN-HLR interface	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99307	29.002	026		3.1.0	OR Capability IE in PRN	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99304	29.002	027	2	3.1.0	Addition of the information elements and the ASN.1 definitions for Pre-paging	approved	3.2.0	Mobile Application Part (MAP)	B	N2
NP-99299	29.002	028		3.1.0	Clarification on registration of a default priority level higher than the maximum entitled one	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99301	29.002	029	1	3.1.0	IST for non-CAMEL subscribers	approved	3.2.0	Mobile Application Part (MAP)	B	N2
NP-99300	29.002	034		3.1.0	Update Location handling for GPRS-only subscription	approved	3.2.0	Mobile Application Part (MAP)	A	N2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
NP-99300	29.002	035		3.1.0	Correction of OP & AC definitions for NoteMS- PresentForGPRS	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99297	29.002	036		3.1.0	Removal of redundant information from RCH	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99298	29.002	042		3.1.0	Clarification on supported CAMEL phases in ISD ack	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99300	29.002	043	1	3.1.0	Addition of exception handling to the CancellationType	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99305	29.002	044		3.1.0	Editing error corrections on VLR capabilities	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99307	29.002	046		3.1.0	Clarification of LR-REJECT cause corresponding to Roaming	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99302	29.002	047		3.1.0	Clarification of returning the MSISDN in SRlack	approved	3.2.0	Mobile Application Part (MAP)	A	N2
NP-99284	29.007	002		3.1.0	R99 Service clean up	approved	3.2.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	C	N3
NP-99283	29.007	003		3.1.0	EDGE related Correction	approved	3.2.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	F	N3
NP-99283	29.007	004		3.1.0	Asymmetry in EDGE	approved	3.2.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	B	N3
NP-99276	29.018	004		3.1.0	Clarify that no acknowledgement is made for TMSI deallocation	approved	3.2.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	F	N1
NP-99268	29.018	005	1	3.1.0	TMSI status indication	approved	3.2.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	A	N1
NP-99268	29.018	006		3.1.0	Explicit IMSI detach, abnormal case SGSN side	approved	3.2.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	A	N1
NP-99300	29.060	013	1	3.1.0	Addition of APN parameter to PDU Notification Request	approved	3.2.0	GPRS Tunneling protocol (GPT) across the Gn and Gp interface	A	N2
NP-99300	29.060	014		3.1.0	Specification of the MSISDN Information Element	revised		GPRS Tunneling protocol (GPT) across the Gn and Gp interface	A	N2
NP-99349	29.060	014	2	3.1.0	Specification of the MSISDN Information Element	revised		GPRS Tunneling protocol (GPT) across the Gn and Gp interface	A	N2
NP-99378	29.060	014	3	3.1.0	Specification of the MSISDN Information Element	approved	3.2.0	GPRS Tunneling protocol (GPT) across the Gn and Gp interface	A	N2
SP-99417	33.102	012		3.1.0	Re-organisation of clause 6	approved	3.2.0	Security Architecture	D	S3
SP-99417	33.102	013		3.1.0	Integrity protection procedures	approved	3.2.0	Security Architecture	C	S3
SP-99417	33.102	014		3.1.0	Security of MAP-Based Transmissions	approved	3.2.0	Security Architecture	C	S3
SP-99417	33.102	015		3.1.0	Secure UMTS-GSM Interoperation	approved	3.2.0	Security Architecture	C	S3
SP-99417	33.102	016		3.1.0	Network-wide confidentiality	approved	3.2.0	Security Architecture	C	S3
SP-99417	33.102	017		3.1.0	Authentication Management Field (AMF)	approved	3.2.0	Security Architecture	C	S3
SP-99417	33.102	018		3.1.0	Support for window and list mechanisms for sequence number management in authentication scheme	approved	3.2.0	Security Architecture	C	S3

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	cat	WG Responsible
SP-99417	33.102	019		3.1.0	Modification of text for window and list mechanisms	approved	3.2.0	Security Architecture	D	S3
SP-99495	33.102	020		3.1.0	Cipher/integrity key setting	Corresp approv (ends 26/10)		Security Architecture	C	S3
SP-99496	33.102	021		3.1.0	A generalised scheme for sequence number management	Corresp approv (ends 26/10)		Security Architecture	C	S3
SP-99418	33.105	001		3.0.0	Resources for cryptographic algorithms in the USIM	approved	3.1.0	Cryptographic Algorithm requirements	C	S3
SP-99418	33.105	002		3.0.0	MAC used for data integrity of signalling messages	approved	3.1.0	Cryptographic Algorithm requirements	C	S3
SP-99418	33.105	003		3.0.0	Cipher keystream block length	approved	3.1.0	Cryptographic Algorithm requirements	C	S3

Annex G: Status of CRs to GSM Specifications after SA #5 meeting

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
SP-99440	02.60	A021		6.2.0	Class B mode of operation	agreed-3G	6.3.0	General Packet Radio Service Stage 1 Description	R97	F	S1
SP-99440	02.60	A022		7.2.0	Class B mode of operation	agreed-3G	7.3.0	General Packet Radio Service Stage 1 Description	R98	F	S1
SP-99479	02.60	A023		6.2.0	GPRS Stage 1 removal of example	agreed-3G	6.3.0	General Packet Radio Service Stage 1 Description	R97	D	S1
SP-99479	02.60	A024		7.2.0	GPRS Stage 1 removal of example	agreed-3G	7.3.0	General Packet Radio Service Stage 1 Description	R98	D	S1
SP-99486	02.71	A001	1	7.0.0	Changes to the LCS stage 1 to add support for mobile originated positioning requests, and velocity as a service parameter	agreed-3G	7.1.0	Location Services (LCS) - Stage 1	R98	C	S1
SP-99443	02.78	A041		6.3.0	Introduction of a "Health Warning" on type of numbers sent by the mobile other than "unknown" or "international"	agreed-3G	6.3.1	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)	R97	D	S1
NP-99300	03.03	A032	1	7.1.0	ASCII coding of <MNC> and <MCC> in APN OI	agreed-3G	7.2.0	Numbering, Addressing and Identification	R98	A	N2
NP-99300	03.03	A033	1	6.4.0	ASCII coding of <MNC> and <MCC> in APN OI	agreed-3G	6.5.0	Numbering, Addressing and Identification	R97	F	N2
NP-99298	03.18	A050		6.4.0	Removal of TDP-Criteria from RCH	agreed-3G	6.5.0	Basic Call Handling	R97	F	N2
NP-99298	03.18	A051		7.1.0	Removal of TDP-Criteria from RCH	agreed-3G	7.2.0	Basic Call Handling	R98	A	N2
NP-99298	03.18	A052	1	6.4.0	GMSC CAMEL Phases in PRN	agreed-3G	6.5.0	Basic Call Handling	R97	F	N2
NP-99298	03.18	A053	1	7.1.0	GMSC CAMEL Phases in PRN	agreed-3G	7.2.0	Basic Call Handling	R98	A	N2
NP-99308	03.18	A054		7.1.0	Separation of success & failure cases for OR of late call forwarding	agreed-3G	7.2.0	Basic Call Handling	R98	F	N2
NP-99298	03.18	A055		7.1.0	Notification of CF to gsmSCF before activation of CF process	agreed-3G	7.2.0	Basic Call Handling	R98	A	N2
NP-99298	03.18	A056		6.4.0	Notification of CF to gsmSCF before activation of CF process	agreed-3G	6.5.0	Basic Call Handling	R97	F	N2
TP-99176	03.40	A088		7.2.0	Change to reserved port number range for SMS	agreed-3G	7.3.0	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	R98	C	T2
TP-99176	03.40	A088		7.2.0	Change to reserved port number range for SMS	agreed-3G	7.3.0	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	R98	C	T2
NP-99268	03.60	A161	1	6.4.0	PDP Context Deactivation during activation	agreed-3G	6.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	R97	B	S2
NP-99268	03.60	A163	1	7.1.0	PDP Context deactivation during an activation	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	B	S2
NP-99268	03.60	A165		6.4.0	Modification info is not piggybacked	agreed-3G	6.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	R97	F	N1
NP-99268	03.60	A166	1	6.4.0	APN and GGSN selection SDL diagrams (modified from N1-99785)	agreed-3G	6.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	R97	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99268	03.60	A167		7.1.0	APN and GGSN selection SDL diagrams	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	F	N1
NP-99268	03.60	A168	2	7.1.0	Ga interface to the GPRS Logical Architecture diagram etc	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	F	N1
NP-99268	03.60	A169		7.1.0	Modif information is not piggybacked	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	F	N1
NP-99268	03.60	A170	2	6.4.0	Clarification on multiplexing of several NSAPIS onto one LLC SAP	agreed-3G	6.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	R97	F	N1
NP-99268	03.60	A171	2	7.1.0	Clarification on multiplexing of several NSAPIS onto one LLC SAPI	agreed-3G	7.2.0	General Packet Radio Service (GPRS) Service description; Stage 2	R98	F	N1
NP-99302	03.66	A006	1	7.1.0	Terminology alignment	agreed-3G	7.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	R98	F	N2
NP-99302	03.66	A007		7.1.0	Proposed changes to B.4.2 Delivery of SMS to a Non-ported Number - Direct Routing - MNP-SRF acts as Higher-level Relay	agreed-3G	7.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	R98	F	N2
NP-99302	03.66	A009	1	7.1.0	Clarification of NPLR functionality in not known to be ported case	agreed-3G	7.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	R98	F	N2
NP-99309	03.72	A001		7.0.1	Inclusion of the SS Invocation Notification Procedure Subscriber"	agreed-3G	7.1.0	Call Deflection stage 2	R98	F	NS
NP-99311	03.72	A002		7.0.1	Separation of success & failure cases for OR of late call forwarding	agreed-3G	7.1.0	Call Deflection stage 2	R98	F	NS
NP-99298	03.78	A108	2	6.4.0	Inclusion of the SS Invocation Notification Procedure	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A109	2	7.1.0	Inclusion of the SS Invocation Notification Procedure	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A127	1	6.4.0	Clarification on handling of Call Reference Number and GMSC address	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A130	2	6.4.0	Alignment of CAMEL2 FCI & Handling of CIR	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A132	1	6.4.0	Call Reference Number	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A133	1	7.1.0	Call Reference Number	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A134		6.4.0	Removal of TDP-Criteria from RCH	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A135		7.1.0	Removal of TDP-Criteria from RCH	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A136	1	6.4.0	GMSC CAMEL Phases in PRN	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A137	1	7.1.0	GMSC CAMEL Phases in PRN	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A138	1	6.4.0	Value of Call Active parameter in ACR operation - clarifications in the SDL	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	D	N2
NP-99298	03.78	A141	1	6.4.0	Corrections of process gsmSSF SDL	agreed-3G	6.5.0	CAMEL Phase 2 (stage 2)	R97	F	N2
NP-99298	03.78	A142		7.1.0	Clarification on handling of Call Reference Number and GMSC address	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A143		7.1.0	Value of Call Active parameter in ACR operation - clarifications in the SDL	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A144		7.1.0	Corrections of process gsmSSF SDL	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99298	03.78	A145		7.1.0	Alignment of CAMEL2 FCI & Handling of CIR	agreed-3G	7.2.0	CAMEL Phase 2 (stage 2)	R98	A	N2
NP-99307	03.79	A013	1	7.1.0	OR Capability E in PRN	agreed-3G	7.2.0	Support of Optimal Routing phase 1 (stage 2)	R98	C	N2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99298	03.79	A014		6.1.0	Removal of TDP-Criteria from RCH	agreed-3G	6.2.0	Support of Optimal Routing phase 1 (stage 2)	R97	F	N2
NP-99298	03.79	A015		7.1.0	Removal of TDP-Criteria from RCH	agreed-3G	7.2.0	Support of Optimal Routing phase 1 (stage 2)	R98	A	N2
NP-99303	03.79	A018		5.4.0	Handling of Release during forwarding interrogation of the HLR	agreed-3G	5.5.0	Support of Optimal Routing phase 1 (stage 2)	R96	F	N2
NP-99303	03.79	A019		6.1.0	Handling of Release during forwarding interrogation of the HLR	agreed-3G	6.2.0	Support of Optimal Routing phase 1 (stage 2)	R97	A	N2
NP-99308	03.79	A020	1	7.1.0	Separation of success & failure cases for OR of late call forwarding	agreed-3G	7.2.0	Support of Optimal Routing phase 1 (stage 2)	R98	F	N2
NP-99298	03.79	A021	1	7.1.0	Notification of CF to gsmSCF before activation of CF process	agreed-3G	7.2.0	Support of Optimal Routing phase 1 (stage 2)	R98	A	N2
NP-99298	03.79	A022	1	6.1.0	Notification of CF to gsmSCF before activation of CF process	agreed-3G	6.2.0	Support of Optimal Routing phase 1 (stage 2)	R97	F	N2
NP-99303	03.79	A023		7.1.0	Handling of Release during forwarding interrogation of the	agreed-3G	7.2.0	Support of Optimal Routing phase 1 (stage 2)	R98	A	N2
NP-99310	03.97	A005		7.1.0	Various editorial corrections	agreed-3G	7.1.1	Multiple subscriber Profile (MSP) stage 2	R98	D	NS
NP-99268	04.07	A031		6.4.0	Addition of LL-STATUS_IND	agreed-3G	6.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	R97	F	N1
NP-99268	04.07	A032		7.1.0	Addition of LL-STATUS_IND	agreed-3G	7.2.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	R98	F	N1
NP-99268	04.08	A843		7.1.2	Addition of 3rd MNC digit in Routing Area Identification and correction of LAI	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A845		6.4.2	GMM attempt counters	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A847		7.1.2	GMM attempt counters	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A849		6.4.2	Cell change during GPRS Detach procedure	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A851		7.1.2	Cell change during GPRS Detach procedure	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A853		6.4.2	RA change in GMM-ROUTING_AREA_UPDATE_INITIATED	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	A	N1
NP-99268	04.08	A855		7.1.2	RA change in GMM-ROUTING_AREA_UPDATE_INITIATED	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	A	N1
NP-99268	04.08	A857		6.4.2	non power down cause detach during attach	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A859	1	6.4.2	CM request and combined GMM procedures	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A859		7.1.2	non power down cause detach during attach	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A860	1	7.1.2	CM request and combined GMM procedures	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99268	04.08	A861		6.4.2	Receive N-PDU Number list IE padding bits	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A863		7.1.2	Receive N-PDU Number list IE padding bits	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A865	1	6.4.2	TMSI status indication	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A867	1	7.1.2	TMSI status indication	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A873		6.4.2	PDP context deactivation caused by LLC failure	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A875		7.1.2	PDP context deactivation caused by LLC failure	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A883		6.4.2	Clarification of the Detach Type "re-attach required" or "re-attach not required" in the network initiated Detach procedure	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A887		7.1.2	CR Complete not returned for TMSI deallocation. Some alignments and editorials	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A889		6.4.2	RAU Complete not returned for TMSI deallocation. Some alignments and editorials.	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A894		7.1.2	Clarification of the Detach Type "re-attach required" or "re-attach not required" in the network initiated Detach procedure	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A899		6.4.2	CR clash in sec. 4.7.3.2.6	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A901	1	7.1.2	CR clash in sec. 4.7.3.2.6	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A903		6.4.2	CR clash in sec. 4.7.3.2.3.2 and 4.7.5.2.3.2	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A905		7.1.2	CR clash in sec. 4.7.3.2.3.2 and 4.7.5.2.3.2	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A907	1	6.4.2	T3212 restart after RAU reject	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A909	1	7.1.2	T3212 restart after RAU reject	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A911		6.4.2	New State GMM-REGISTERED IMSI-DETACH-INITIATED	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A913		7.1.2	New State GMM-REGISTERED IMSI-DETACH-INITIATED	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A915		6.4.2	Deactivate AA PDP context request message	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A917		7.1.2	Deactivate AA PDP context request message	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A919	2	6.4.2	Coding Scheme in Network Name IE	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99268	04.08	A921	2	7.1.2	Coding Scheme in Network Name IE	agreed-3G	7.2.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A931		6.4.2	T3212 restart after GPRS detach	agreed-3G	6.5.0	Mobile Radio Interface - Layer 3 Specification	R97	F	N1
NP-99268	04.08	A933		7.2.1	T3212 restart after GPRS detach	agreed-3G	7.3.0	Mobile Radio Interface - Layer 3 Specification	R98	F	N1
NP-99268	04.08	A935		5.13.0	Coding Scheme in Network Name IE	agreed-3G	5.14.0	Mobile Radio Interface - Layer 3 Specification	R96	F	N1
NP-99268	04.64	A065	3	6.4.0	Max value for N201	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A072		6.4.0	MS behavior while suspended	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A073		7.0.0	MS behavior while suspended	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A074	1	6.4.0	Unsolicited layer 3 XID parameters	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A075	1	7.0.0	Unsolicited layer 3 XID parameters	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A078		6.4.0	reset cancels outstanding requests	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A079		6.4.0	N202 alignment with new SINDCP header	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A080		6.4.0	Duplicate XID parameter	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A082		6.4.0	Editorials on SAPs	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	D	N1
NP-99268	04.64	A083		8.0.0	Editorials on SAPs	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	D	N1
NP-99268	04.64	A084		6.4.0	Starting T201 after peer receiver busy condition is cleared	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A085		8.0.0	MS behavior while suspended	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99268	04.64	A086	8.0.0	8.0.0	Unsolicited layer 3 XID parameters	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A087	7.0.0	7.0.0	reset cancels outstanding requests	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A088	8.0.0	8.0.0	reset cancels outstanding requests	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A089	7.0.0	7.0.0	N202 alignment with new SNDCP header	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A090	8.0.0	8.0.0	N202 alignment with new SNDCP header	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A091	7.0.0	7.0.0	Editorials on SAPs	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	D	N1
NP-99268	04.64	A092	7.0.0	7.0.0	Duplicate XID parameter	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A093	8.0.0	8.0.0	Duplicate XID parameter	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A094	7.0.0	7.0.0	Starting T201 after peer receiver busy condition is cleared	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A095	8.0.0	8.0.0	Starting T201 after peer receiver busy condition is cleared	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	A	N1
NP-99268	04.64	A096	7.0.0	7.0.0	Max value for N201	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A097	8.0.0	8.0.0	Max value for N201	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A098	6.4.0	6.4.0	Lost XID response	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A099	7.0.0	7.0.0	Lost XID response	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A100	8.0.0	8.0.0	Lost XID response	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99268	04.64	A101	1	6.4.0	Clarification on the behaviour of an unused SAP	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A102	1	7.0.0	Clarification on the behaviour of an unused SAP	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A103	1	8.0.0	Clarification on the behaviour of an unused SAP	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A104	1	6.4.0	Clarification on the TLLI assign, change and un-assign procedure	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A105	2	7.0.0	Clarification on the TLLI assign, change and un-assign procedure	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A106	1	8.0.0	Clarification on the TLLI assign, change and un-assign procedure	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	F	N1
NP-99268	04.64	A107		6.4.0	Assignment of multiple TLLI values	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A108		7.0.0	Assignment of multiple TLLI values	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	F	N1
NP-99268	04.64	A109	1	6.4.0	Failure of Layer-3 XID negotiation in ADM mode	endorsed-3G	6.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R97	F	N1
NP-99268	04.64	A110	1	7.0.0	Failure of Layer-3 XID negotiation in ADM mode	endorsed-3G	7.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R98	A	N1
NP-99268	04.64	A111		8.0.0	Assignment of multiple TLLI values	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	A	N1
NP-99268	04.64	A112	1	8.0.0	Failure of Layer-3 XID negotiation in ADM mode	endorsed-3G	8.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	R99	A	N1
NP-99268	04.65	A040		6.4.0	Reset cancels outstanding requests	endorsed-3G	6.5.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R97	F	N1
NP-99268	04.65	A042		6.4.0	XID negotiation during PDP context deactivation and modification	endorsed-3G	6.5.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R97	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99260	04.65	A043	1	7.0.0	XID collision corrections	endorsed-3G	7.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R98	F	N1
NP-99268	04.65	A044		7.0.0	XID negotiation during PDP context deactivation and modification	endorsed-3G	7.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R98	F	N1
NP-99268	04.65	A045		7.0.0	Reset cancels outstanding requests	endorsed-3G	7.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R98	F	N1
NP-99259	04.65	A046	2	6.4.0	XID collision corrections	endorsed-3G	6.5.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R97	F	N1
NP-99268	04.65	A051	1	6.4.0	Failure of Layer-3 XID negotiation	endorsed-3G	6.5.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R97	F	N1
NP-99268	04.65	A052	1	7.0.0	Failure of Layer-3 XID negotiation	endorsed-3G	7.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R98	F	N1
NP-99268	04.65	A055		6.4.0	V.42 bis compression	endorsed-3G	6.5.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R97	F	N1
NP-99268	04.65	A056		7.0.0	V.42 bis compression	endorsed-3G	7.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)	R98	F	N1
NP-99267	04.68	A015		5.3.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	5.4.0	Group Call Control (GCC) Protocol	R96	F	N1
NP-99267	04.68	A016		6.1.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	6.2.0	Group Call Control (GCC) Protocol	R97	F	N1
NP-99267	04.68	A017		6.1.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	6.2.0	Group Call Control (GCC) Protocol	R98	F	N1
NP-99267	04.68	A018		5.3.0	Message name correction	endorsed-3G	5.4.0	Group Call Control (GCC) Protocol	R96	A	N1
NP-99267	04.68	A019		6.1.0	Message name correction	endorsed-3G	6.2.0	Group Call Control (GCC) Protocol	R97	A	N1
NP-99267	04.68	A020		7.0.0	Message name correction	endorsed-3G	7.1.0	Group Call Control (GCC) Protocol	R98	A	N1
NP-99267	04.69	A012		5.3.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	5.4.0	Broadcast Call Control (BCC) protocol	R96	F	N1
NP-99267	04.69	A013		6.1.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	6.2.0	Broadcast Call Control (BCC) protocol	R97	F	N1

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99267	04.69	A014	7.0.0	7.0.0	Correction of Reject Cause in Termination Reject message	endorsed-3G	7.1.0	Broadcast Call Control (BCC) protocol	R98	F	N1
NP-99267	04.69	A015	5.3.0	5.3.0	Message name correction	endorsed-3G	5.4.0	Broadcast Call Control (BCC) protocol	R96	A	N1
NP-99267	04.69	A016	6.1.0	6.1.0	Message name correction	endorsed-3G	6.2.0	Broadcast Call Control (BCC) protocol	R97	A	N1
NP-99267	04.69	A017	7.0.0	7.0.0	Message name correction	endorsed-3G	7.1.0	Broadcast Call Control (BCC) protocol	R98	A	N1
TP-99176	07.07	A082	6.3.0	6.3.0	AT command - Request GPRS service 'D'	agreed-3G	6.4.0	Digital cellular telecommunications System (Phase 2) AT Command set for GSM Mobile Equipment (ME)	R97	F	T2
TP-99176	07.07	A083	7.3.0	7.3.0	AT command - Request GPRS service 'D'	agreed-3G	7.4.0	Digital cellular telecommunications System (Phase 2) AT Command set for GSM Mobile Equipment (ME)	R98	A	T2
TP-99176	07.10	A020	6.3.0	6.3.0	Clarification of CR bit	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
TP-99176	07.10	A020	6.3.0	6.3.0	Clarification of CR bit	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
TP-99176	07.10	A021	7.0.0	7.0.0	Clarification of CR bit	agreed-3G	7.1.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R98	A	T2
TP-99176	07.10	A021	7.0.0	7.0.0	Clarification of CR bit	agreed-3G	7.1.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R98	A	T2
TP-99176	07.10	A022	6.3.0	6.3.0	Correction of the bits in the start and close flags of the frame in the example on Annex B	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
TP-99176	07.10	A022	6.3.0	6.3.0	Correction of the bits in the start and close flags of the frame in the example on Annex B	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
TP-99176	07.10	A023	7.0.0	7.0.0	Correction of the bits in the start and close flags of the frame in the example on Annex B	agreed-3G	7.1.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R98	A	T2
TP-99176	07.10	A023	7.0.0	7.0.0	Correction of the bits in the start and close flags of the frame in the example on Annex B	agreed-3G	7.1.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R98	A	T2
TP-99176	07.10	A024	6.3.0	6.3.0	Correction of value octets in RPN command	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
TP-99176	07.10	A024	6.3.0	6.3.0	Correction of value octets in RPN command	agreed-3G	6.4.0	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	R97	F	T2
NP-99282	07.60	A017	6.3.0	6.3.0	AT Commands	agreed-3G	6.4.0	General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS	R97	A	N3
NP-99282	07.60	A018	7.0.0	7.0.0	AT Commands	agreed-3G	7.1.0	General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS	R98	A	N3
NP-99283	08.20	A007	8.0.0	8.0.0	Asymmetric Channel coding	endorsed-3G	8.1.0	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	R99	B	N3
NP-99300	09.02	A239	6.4.0	6.4.0	Corrections related to GGSN-HLR Interface	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99298	09.02	A241	6.4.0	6.4.0	Clarification on VLR CAMEL Subscription Info	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99298	09.02	A242	7.1.0	7.1.0	Clarification on VLR CAMEL Subscription Info	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99298	09.02	A243	1	6.4.0	Clarification on Destination Number Criteria	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	D	N2
NP-99298	09.02	A244	1	7.1.0	Clarification on Destination Number Criteria	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	D	N2
NP-99298	09.02	A245	2	7.1.0	GMSC-CAMEL phase 2 support IE in PRN	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99307	09.02	A246	1	7.1.0	OR capability IE in PRN	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	C	N2
NP-99298	09.02	A247		6.4.0	Removal of TDP-Criteria from RCH	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99298	09.02	A248		7.1.0	Removal of TDP-Criteria from RCH	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99300	09.02	A250	1	6.4.0	Update Location handling for GPRS-only subscription	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99300	09.02	A251	1	6.4.0	Correction of OP & AC definitions for NoteMS-PresentForGPRS	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99300	09.02	A252		7.1.0	Update Location handling for GPRS-only subscription	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99300	09.02	A253		7.1.0	Correction of OP & AC definitions for NoteMS-PresentForGPRS	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99297	09.02	A259		7.1.0	Removal of redundant information from RCH	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	F	N2
NP-99298	09.02	A260	1	6.4.0	GMSC-CAMEL phase 2 support IE in PRN	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99300	09.02	A261		7.1.0	Corrections related to GGSN-HLR interface	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99299	09.02	A262		6.4.0	Clarification on registration of a default priority level higher than the maximum entitled one	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99299	09.02	A263		7.1.0	Clarification on registration of a default priority level higher than the maximum entitled one	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99302	09.02	A264		7.1.0	Clarification of returning the MSISDN in SRlack	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	F	N2
NP-99307	09.02	A265		7.1.0	Clarification of LR-REJECT cause corresponding to Roaming Restriction Due To Unsupported Feature	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	F	N2
NP-99298	09.02	A266		5.13.0	Clarification on supported CAMEL phases in ISD ack	agreed-3G	5.14.0	Mobile Application Part (MAP) Specification	R96	F	N2
NP-99298	09.02	A267		6.4.0	Clarification on supported CAMEL phases in ISD ack	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	A	N2
NP-99298	09.02	A268		7.1.0	Clarification on supported CAMEL phases in ISD ack	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2
NP-99300	09.02	A269	1	6.4.0	Addition of exception handling to the CancellationType	agreed-3G	6.5.0	Mobile Application Part (MAP) Specification	R97	F	N2
NP-99300	09.02	A270	1	7.1.0	Addition of exception handling to the CancellationType	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	A	N2

TSG Doc	SPEC	CR	rev	Current version	SUBJECT	TSG status	New version	Specification Title	Phase	cat	WG Responsible
NP-99305	09.02	A271		7.1.0	Editing error correction on VLR capabilities	agreed-3G	7.2.0	Mobile Application Part (MAP) Specification	R98	F	N2
NP-99268	09.18	A035		6.4.0	Clarify that no acknowledgement is made for TMSI deallocation	agreed-3G	6.5.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R97	F	N1
NP-99268	09.18	A036		6.4.0	Explicit IMSI detach, abnormal case SGSN side	agreed-3G	6.5.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R97	F	N1
NP-99268	09.18	A037		7.1.0	Explicit IMSI detach, abnormal case SGSN side	agreed-3G	7.2.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R98	F	N1
NP-99268	09.18	A040		6.4.0	TMSI status indication	agreed-3G	6.5.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R97	F	N1
NP-99268	09.18	A041		7.1.0	TMSI status indication	agreed-3G	7.2.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R98	F	N1
NP-99277	09.18	A042		7.1.0	Clarify that no acknowledgement is made for TMSI deallocation	agreed-3G	7.2.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	R98	F	N1
NP-99300	09.60	A072		6.4.0	Specification of the MSISDN Information Element in GSM 09.60	agreed-3G	6.5.0	General Packet Radio Service (GPRS); GPRS Tunneling Protocol GPT) across the Gn and Gp Interface	R97	F	N2
NP-99300	09.60	A073		7.1.0	Specification of the MSISDN Information Element in GSM 09.60	agreed-3G	7.2.0	General Packet Radio Service (GPRS); GPRS Tunneling Protocol GPT) across the Gn and Gp Interface	R98	A	N2
NP-99307	10.02	A002	1	6.0.0	Use of parameters after the ellipsis marker	agreed-3G	6.1.0	Guidelines for the modification of the Mobile Application Part (MAP) in phase 2+	R97	D	N2
SP-99381	12.15	A015		7.2.1	Correction of code-point for Packet Transfer Command	agreed-3G	7.3.0	General Packet Radio Service (GPRS); GPRS Charging	R98	F	S5
SP-99381	12.15	A016		7.2.1	Inclusion of APN selection mode in CDRs	agreed-3G	7.3.0	General Packet Radio Service (GPRS); GPRS Charging	R98	F	S5