Technical Specification Group Services and System Aspects
Meeting #9, Hawaii, USA, 25-28 September 2000

Draft report

Source: **Secretary TSG SA, Maurice Pope**

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1 Opening of the meeting

Dr. Asok Chatterjee welcomed delegates on behalf of the Friends of 3GPP to the United States of America and wished TSG SA a successful meeting.

2 Approval of the Agenda

The Chairman, Mr. Niels Peter Skov Andersen opened the meeting and introduced the draft agenda, provided in TD SP-000356 which was approved without change. The inclusion of TSG GERAN was highlighted, which means that the complete GSM radio system is now a part of 3GPP, and maintenance of the GSM system is now under 3GPP responsibility.

The Chairman reminded delegates of the need to declare any essential Intellectual Property Rights (IPRs) that they may hold related to the work programme and systems of 3GPP.

3 Approval of the meeting report of TSG-SA Meeting # 8

TD SP-000357 The report of the last meeting was approved without change.

4 Items for immediate consideration

TD SP-000365: 3GPP Work Management, Release Planning and Vision. This was introduced by BT and considers the ongoing 3GPP activities relating to day-to-day Work Management and co-ordination. It suggested that the 3 main points needed to achieve the goals of the project were Work management and co-ordination, Release planning and Long term vision (3 to 5 years ahead). An objection to the proposal was received from France Telecom, as the mandate of TSG SA should be discussed within TSG SA. This was noted, and the matter was discussed further under agenda item 8.9.

5 Reports from TSG SA ad-hoc meetings

A brief report of the Release 2000 Planning ad-hoc meeting was provided by the Chairman. The meeting was reasonably successful, although there had been little discussion over e-mail before the meeting. 3 output documents were produced:

- TD SP-000477: Draft Principles of 3GPP Work Planning - Release Mechanisms, which was approved after some clarification on the 3GPP release organisation diagrams in section 2. (see agenda item 8.7);
- How to handle Releases and definition of a Release (a consistent set of specifications containing stable Features);
- Releases were separated from the Year, and it was decided to relate the Release name to the version number (i.e. Rel4 for current Release 2000, version 4.x.y, Rel5 for version 5.x.y, etc.).

6 Letters / Reports from other groups

6.1 TSG-T, TSG-CN, TSG-RAN

TD SP-000358: Liaison statement (to SA WG2) on appointment of people to maintain liaison with IGC. This LS was noted. TSG CN were thanked for taking care of this matter.

6.2 Partners and their bodies

There were no contributions discussed under this agenda item.

6.3 Others

TD SP-000428: Standardisation of Service Operation Management from GSM/SERG. The GSMA noted that management of service operations was not included in the 3GPP work Programme and believed that this was necessary in order to facilitate the management of the sophisticated management needed for the 3GPP system. The SA WG5 Chairman stated that they were aware of the GSMA requirements and this was

proposed to be discussed within SA WG5. It was also suggested that this LS be forwarded to SA WG2 due to the architectural impact of the work that would be needed for this. It was agreed that the system should be designed to facilitate the management, so that SA WG2 should take this into account within the Architecture and that SA WG5 would need to study the Management aspects. Co-ordination on this between the two groups was encouraged. It was also suggested that some related items, such as charging, should be dealt with in SA WG1. The SA WG1 Chairman responded that the stage 1 aspects should be done in SA WG1, as is usual for basic Charging aspects. It was agreed that no response to GSM/SERG was needed at this time. It was suggested that a workshop could be set up to establish the service and, architecture and protocol specification. It was agreed that this is under the responsibility of SA WG1 (operational requirements), SA WG2 (architecture) and SA WG5 (Stages 2 and 3), and should be studied by these WGs, who should decide on the best way to co-operate on the issue (joint meeting, workshop, etc.).

TD SP-000468: LS from GSM North America Regarding the Proposal to Change IMEI Encoding. This was considered with TD SP-000367 and was noted.

TD SP-000367: LS to 3GPP CN Chairman on IMEI Numbering and Format from the GSMA Terminals WG. The GSMA TWG outlined the importance of the IMEI numbering and format issue to their work and requested that any proposals to change standards relating to IMEI be suspended until an independent study which they are undertaking is completed and a considered action plan involving all parties is constructed. This was being dealt with in TSG CN and it was noted that this was awaiting the input of the independent studies. The contribution was then noted.

TD SP-000469: LS from GSM North America on All IP Network End-to-End Delay QoS Feasibility Study. GSM North America were concerned that end-to-end delay, especially across intermediate networks, may significantly impair IP-based networks from meeting service requirements and request 3GPP to pursue a feasibility study on this topic, with the intent to provide consideration of the degree to which various QoS scenarios may meet the service requirements. This Liaison was sent to SA WG1 and needed to be considered by SA WG1, TSGs CN, RAN and GERAN. SA WG2 also need to consider the architectural aspects and were asked to work on this matter to elaborate the architectural model and scenarios for end-to-end QoS. Members were asked to contribute to SA WG2 in order to progress this work in order to establish as early as possible for Rel4 and Rel5.

TD SP-000470: LS from GSM North America on Location Services Functionality in 3GPP Specifications. GSM North America had noticed that location services functionality standardised in GSM Releases ’98 and ’99 is missing from the 3GPP Release 2000 GERAN and UMTS specifications and asked for this to be included as a high priority. Some discussion ensued, due to differences in the radio architecture between GSM and UMTS, so direct re-use of the GSM specifications is not possible. The Core Network link would need to be specified in order to realise the LCS functionality. The LS was noted and it was agreed that an evolutionary path from GSM to UMTS LCS functionality should be considered within 3GPP via standardised interfaces. It was noted that WIs exist in RAN and CN and contribution into the relevant groups should be made to progress the work towards an Open solution. It was noted that the liaison statement had also been sent to SA WG1 and SA WG2 and TSG SA requested a report from SA WG2 on the discussions and agreements on this topic at TSG SA#10.

7 Reports from TSG-SA Working Groups

7.1 TSG-SA WG1

7.1.1 Report from TSG-SA WG1 and review of progress

TD SP-000369: Status report from SA WG1 to SA#9. The SA WG1 status report was presented by the SA WG1 Chairman, using the presentation slides in TD SP-000368. SA WG1 presented a number of correctional CRs to Release 1999 specifications and reported that good progress had been made on Release 2000 (Rel5) work. There was, however, some concerns in SA WG1 on how much can be achieved in Release 2000 considering the complexity of the work.

For the future outlook, the main emphasis of the work is now on IMServices for Rel5

The SA WG1 Chairman thanked M Clayton for his hard work in the group.

7.1.2 Questions for advice from TSG-SA WG1

TD SP-000359: Liaison Statement from SA WG1 - Applications on external devices (response to Tdoc SP-000353). SA WG1 believe that the access to external devices is a necessary service requirement and that the security and network integrity issues need to be addressed. This was noted and was addressed under the liaisons from TSG T (agenda item 8.3.2).

TD SP-000360: Proposed LS from SA WG1 on status of IMEI coding. After several discussions in various groups, S1 noted that an ad-hoc meeting of the GSMA TWG and GCF will discuss the IMEI issue in September 2000, and therefore suggested that 3GPP defer discussion of IMEI changes until the output from this meeting is available. It was reported that TSG CN had also decided to await the proposals from GSMA and asked TSG SA to postpone decision. It was therefore agreed to postpone any decisions on IMEI format until the results of these discussions were provided.

TD SP-000369, Annex 4, attached LS and CR: Liaison on Service Continuity requirements for Release 2000. This had also been seen at the TSG SA Release 2000 ad-hoc meeting. TSG SA were asked to consider the ser requirements in the service continuity and handover requirements in the wider scope of the TSG SA Release 2000 planning ad-hoc and to provide guidance to SA WG1 and other groups on which requirements should be met and in what timeframe. The request was noted and relevant WGs were asked to consider this annex in order to discuss in a future meeting.

7.1.3 Approval of contributions from TSG-SA WG1

Approval of CRs:

For a full list of CRs and their status from SA WG1 see Annex X.1.

TD SP-000371: CR (R99) to 22.002 on 32 kbit/s UDI/RDI multimedia in GSM. This CR was approved.

TD SP-000372: CRs (R99) to 22.011 on Alignment with 23.122 on selection procedure. These CRs were approved.

TD SP-000373: CR (R99) to 22.060 on Removal of PTM-G text from stage 1. This CR was approved.

TD SP-000374: CRs (R99) to 22.078 for alignment to stage 2. These CRs were approved.

TD SP-000375: CRs (R99) to 22.097 and 22.135 on Interaction between Multicall and MSP. These CRs were approved.

TD SP-000376: CR (R99) to 22.030 on Codes for defined Supplementary Services. This CR was approved.

TD SP-000377: CR (R99) to 22.091 on CLI presentation modifications. This CR was approved.

TD SP-000378: CRs (R99) to 22.071 on Correction to LCS Service Description Stage 1 for alignment. These CRs were approved.

TD SP-000379: CRs (R99) to 22.101 on Interactions between applications requiring the access to UE resources. CR055 was withdrawn and CR056 was approved.

TD SP-000380: CR (R99) to 21.905 on New Abbreviations and Definitions for R99. This CR was approved.

TD SP-000406: CRs to 22.135 on Multicall. These CRs were approved. It was confirmed that there was no impact on Stages 2 and 3 (as the requirement had never been implemented in Stages 2 and 3 (realignment).

TD SP-000426 (Revision of TD SP-000384): CR to 22.129 on Removal of requirements for SoLSA support. This CR was approved.

TD SP-000381: Rel4 CRs to various specs on Change of MExE name. These CRs were approved.

TD SP-000382: Rel4 CR to 22.038 on SAT/USAT Support of Multimedia Services. This CR was approved.

TD SP-000383: Rel4 CRs to 22.101 to implement the requirements for R2000. These CRs were approved. (It was clarified that all of these CRs had been agreed by SA WG1 Plenary meeting).

TD SP-000429: Rel4 CRs to 22.101 to implement the requirements for R2000 Part 2. These CRs had been agreed by SA WG3 in Tåstrup, but after the meeting, a proposal to split the document into different parts was made to allow CRs to be implemented in different Releases based on TSG SA decision. TD SP-000430 includes the split versions, with no additional changes, which were sent to SA WG1 for e-mail agreement , but were not agreed unanimously due to some confusion. The SA WG1 Chairman asked TSG SA to approve **either** the CRs in TD SP-000429 **or** those in the split versions in TD SP-000430. The CRs in TD SP-000429 were withdrawn. The CRs in TD SP-000430 were approved. It was agreed that more work is needed in this area and SA WG1 were asked to do this.

TD SP-000385: Rel4 CR to 22.011 on Reselection attempts of GPRS terminals. This was postponed for discussion on the classification of the CR as it was considered to be an explicit technical term which caused a functional change. After discussion, the SA WG1 Chairman decided to withdraw this CR in order to have it reviewed by SA WG1 in the light of this discussion.

TD SP-000425 (Revision of TD SP-000386): Rel4 CRs to 22.078 for CAMEL phase 4. **CRs 054, 056, 058, 059, 061 and 064** were approved.

Some discussion over the adequacy of the remaining CRs for the use of CAMEL over IP-based networks ensued: Ericsson objected on the grounds that the term “IP telephony” was not defined in CRs. Further, Ericsson believed that this issue did not follow the TSG SA#08 guidance (ref TD SP-000337 from SA#08) and that the real requirements on control and applicability of CAMEL to the IM domain had not been fully discussed and agreed. Ericsson did not believe that it was feasible to use CAMEL in the IM subsystem. It was suggested that the principle of using CAMEL for support in the IM domain is included in the 22.078 and that if problems are found in the other groups, then it could be removed or further modified. The SA WG1 Chairman clarified that SA WG1 were mandated to define what is to be done, and other groups should analyse whether these requirements are feasible and implementable. It was further argued that there had not been full discussion within SA WG1 on this subject, but only by ad-hocs or over the e-mail for a short time. The SA WG1 Chairman clarified that these CRs had been agreed by both SA WG1 CAMEL ad hoc and plenary meeting which includes CAMEL experts who are also involved in CN and/or SA WG2 work. It was also reported to plenary that no SA WG1 CRs are presented to TSG SA Plenary unless they have been agreed at an SA WG1 plenary meeting or by 2 week e-mail approval. **CRs 051, 052, 053, 055 and 057** were postponed for off-line discussions. After discussion, the SA WG1 Chairman withdrew these 5 CRs for further consideration within SA WG1. SA WG1 were asked to ensure that the ongoing work was not impeded due to this delay in approval of these CRs and to strive to provide a common understanding on the services and interworking aspects in the IM domain and how these services should be controlled. **SA WG1 was asked to seek co-operation with SA WG2 in this area**.

The possibility of a workshop to discuss and elaborate this was suggested, to provide information into the next SA WG1 meeting. It was clarified that such a workshop would not be restricted to particular WGs, but is a workshop on service aspects or service missions for the future focused around the IM subsystem and should be open to the whole community. A draft scope for the workshop was produced in TD SP-000490 (see agenda item 8.9).

TD SP-000387: Rel4 CRs to 22.121 on VHE for R00. These CRs were approved.

TD SP-000388: Rel4 CRs to 22.057 on MExE support of multimedia services. These CRs were approved.

TD SP-000389: Rel4 CRs to various specifications for Bearer Modification without pre-notification. These CRs were approved. It was noted that the impact on the time schedule of TSG CN should be checked. CN had been informed of this and were to investigate.

TD SP-000390: Rel4 CR to 22.002 on Deletion of bearer service BS 30 NT. This CR was approved. (It was noted that the CR cover table should indicate that the CR will produce a version 4.x.y rather than version 3.5.0).

TD SP-000391: Rel4 CR to 22.101 on Emergency Call. This CR was approved.

TD SP-000392: Rel4 CRs to 22.071 on LCS for R00. These CRs were approved.

TD SP-000405: Rel4 CR to 22.101 on Text conversion for global text telephony. This CR was approved.

TD SP-000457: Proposed CR to 22.078:Alignment with stage 2 & 3, and editorial clarification (revised TD SP-000403). This CR was provided and introduced by Vodafone. It was suggested that the CR be postponed in order to give sufficient time for review. Due to the significant number of changes for alignment, it was agreed that this should be postponed to the next TSG SA meeting, and SA WG1 were asked to consider this for presentation to SA#10. The SA WG1 Chairman asked for any comments to be sent to Mr. Ian Park (Vodafone) as soon as possible, to facilitate easy handling and agreement in SA WG1.

Specifications and Reports:

TD SP-000370: TS 22.228 version 1.0.0: “Service requirements for the IP Multimedia Core Network” was presented for information and was noted. Comments to SA WG1 are welcomed for the further elaboration of the document towards approval.

TD SP-000404: TS 22.226 version 1.0.0: "Global text telephony" was presented for information and was noted. The openness of the standard (i.e. concerning the use of modems) was questioned. Comments to SA WG1 are welcomed for the further elaboration of the document towards approval.

TD SP-000417: TS 22.127 version 1.0.0: “Service Requirement for the Open Services Access (OSA)” was presented for information and was noted. Comments to SA WG1 are welcomed for the further elaboration of the document towards approval.

Work Items:

TD SP-000393: New work Item Descriptions for VHE and OSA. This had been rejected in SA#08 and was updated slightly and re-presented. These Work Item descriptions were approved. It was noted that the second WID should be titled “Open Services Access” (rather than NIPS) this applies also to text in the body of WID.

7.2 TSG-SA WG2

7.2.1 Report from TSG-SA WG2 and review of progress

TD SP-000447: Status Report from SA WG2. This was presented by the SA WG2 Chairman. SA WG2 have had many dedicated activities (drafting sessions) on VHE/OSA, QoS, LCS, Split Architecture, IM subsystem and Project Planning (presented under agenda item 7.6). Many subjects were also handled via e-mail discussions.

It was reported that the main activities had been on the elaboration of the IM subsystem.

It was requested that priority is given to Rel4 work in order to complete the architectural aspects in good time. The SA WG2 Chairman confirmed that this would be taken into account in the meeting planning.

7.2.2 Questions for advice from TSG-SA WG2

SA WG2 asked for a clear indication from TSG SA whether the IM Subsystem would be a part of Rel4 or Rel5 in order to allow the correct implementation of the CRs on this topic. This issue was dealt with later under agenda item 8.7.

7.2.3 Approval of contributions from TSG-SA WG2

Approval of CRs:

For a full list of CRs and their status from SA WG1 see Annex X.2.

TD SP-000448: CRs on 03.60 v.7.4.0 and 23.060 v.3.4.0. It was clarified that the CR178r1 in S2-001607 was included in the cover table in error, and the updated agreed CR was provided in S2-0001654, which should show the CR identification **CR178r2.** With this clarification, these CRs were approved.

TD SP-000449: CRs on 23.002 v.3.3.0. These CRs were approved. It was noted that these CRs were all related to the IM Subsystem.

TD SP-000450: CRs on 23.107 v.3.3.0. These CRs were approved. The SA WG2 Chairman agreed to check on any impacts these CRs may have on other documents and take appropriate actions.

TD SP-000451: CRs on 23.121 v.3.3.0. These CRs were approved. CR060r2 was approved as Category A. It was noted that these CRs were all related to the IM Subsystem.

TD SP—000452: CRs on 23.127 v.3.1.0. These CRs were approved. It was clarified that CR011r1 was creating version 4.x.y with a modified title.

TD SP-000456: TS 23.228 version 1.0.0: IP Multimedia (IM) Subsystem - Stage 2. This was presented for information and noted. Comments to SA WG2 are welcomed for the further elaboration of the document towards approval.

TD SP-000487: CR184r2 to 23.060: This CR was agreed by e-mail within SA WG2 and presented to TSG SA for approval. This CR was approved.

Specifications and Reports:

TD SP-000454: 23.874 v.1.0.0. This was presented for information and was noted. Comments to SA WG2 are welcomed for the further elaboration of the document towards approval.

TD SP-000455: 23.271 v.1.0.0. This was presented for information and was noted. Comments to SA WG2 are welcomed for the further elaboration of the document towards approval.

Work Items:

TD SP-000453: Revised WI coversheet on FS on Push Services. This proposes the renaming of “Network requested PDP activation with user ID” to “Push Services”. This was approved.

7.3 TSG-SA WG3

7.3.1 Report from TSG-SA WG3 and review of progress

TD SP-000407: SA WG3 Status Report to TSG SA#09. Mr. Alan Cox, SA WG1 Chairman, presented the report using the presentation slides contained in TD SP-000418 on behalf of the SA WG3 Chairman who was available for questions on a telephone link.

7.3.2 Questions for advice from TSG-SA WG3

TD SP-000419: Recommendation for S3/AHAG joint control document (S3-000591). This draft joint control agreement between SA WG3 and 3GPP2/AHAG was presented for information and noted. The principle of joint control of the AKA between 3GPP and 3GPP2 was endorsed by TSG SA. It was noted that SA WG3 intend to present a finalised agreement to SA#10 for approval/endorsement.

7.3.3 Approval of contributions from TSG-SA WG3

Approval of CRs:

TD SP-000411: 1 Corrective CR to TS 33.102: Re-transmission of authentication request using the same quintet. The T WG3 Chairman had been consulted on this CR and reported that there should be no problem on the implementation of this change, but that a small delay in the availability of testing USIMs to test this feature may result. It was clarified that any testing USIMs already available could be used to test all other features, and the new test USIMs used to include the testing of this feature (estimated approximately 1

month delay for the updated test USIMs). It was asked whether SA WG3 had considered all aspects of the sequence numbering (e.g. START value). The SA WG3 Chairman responded that there was no impact on the synchronisation of counters.

It was asked whether this was really a correction, or should be classified as a functional modification. It was clarified that this change only had impact on the specifications of T WG3, on the internal working of the USIM. With this, the CR was approved (as Category F).

TD SP-000442: 22 Corrective CRs to 33.102. There was some discussion on the Emergency Call handling procedure CR095R2. An off line discussion was held on the issues raised by North American companies and it was agreed that the CR could be approved as it stands, that the North American companies would check with their regulators on the acceptability of the procedure. If it is not acceptable then a further CR would be raised to cover their requirements. It was recognised that the robustness of the network authentication porcedure in the handling of Emergency Calls would be advantageous. TSG SA agreed that in order to make the rejection of false networks in emergency calls robust, then a solution to bar the cell for a period of time, to allow a new cell to be chosen on the repeat attempt, would be the preferred solution. It was also noted that some testing of this procedure would be needed and TSG T should look into this.

It was also stated that regulators who attend TSG and WG meetings could receive valuable insight into problem areas, as they could contribute to, and hear, the discussions first hand. It was suggested that the North American regulators consider attending relevant meetings. Mr. Gary Jones agreed to ask the North American regulators to consider this.

With this, all CRs presented in TD SP-000442 were approved.

TD SP-000412: 1 Functional CR to TS 33.102: Profiles for sequence number management. This CR was approved. However, it was stressed that this CR was accepted as an exception to the general rule due to the advantages of reducing the number of options and with the full support of SA WG3 to this change.

TD SP-000443: 1 Corrective CR to 33.103. This CR was approved.

TD SP-000444: 1 Corrective CR to 33.105. This CR was approved.

TD SP-000445: CRs to 33.102, 33.103 and 33.105 on anonymity key calculation during re-synchronisation. These CRs were approved.

TD SP-000446: CRs to 33.102 and 33.103 to clarify the integrity and ciphering is applied to radio bearers rather than logical channels. These CRs were approved.

Work Items:

TD SP-000420: These WI description updates were approved.

TD SP-000421: 6 new WIDs. It was reported that SA WG3 will receive a liaison statement from TSG CN, to study and clarify the “enhanced home control of security by HE” WI. The TSG CN Chairman also reported that the support of the 3GPP2 requirements for revokation and the positive confirmation of authentication vectors had been discussed and TSG CN need to be informed of the mechanisms for a 3GPP2 subscriber to roam onto a 3GPP network. Co-operation between TSG CN and SA WG3 was requested in order to help answer the signalling load impact question from SA WG3. These WI descriptions were approved with the condition that at least 4 supporting companies are included in the final version of the WI descriptions. The Release for work items would need to be verified after assessment of the work involved. France Telecom requested that work item description sheets for items introducing new functionality should indicate the supporting companies, which should be provided at the WG meeting in order to help ensure that the necessary work will be done. An explanation of the new security features was requested for the SA#10 meeting.

The WIs supporting companies were later clarified as follows:

> WI description for enhancing home environment control of security: Telenor, Nokia, Vodafone, **Motorola**

WI description for LCS security: **Nokia, Ericsson, Siemens, Lucent, Nortel** (taken from main LCS WI support)

7.4 TSG-SA WG4

7.4.1 Report from TSG-SA WG4 and review of progress

TD SP-000394: TSG-S4 Status Report to TSG-SA#9. The SA WG4 Chairman presented the report, using the slides contained in Annex A of the document.

The status of the AMR Wideband Codec testing and the number of languages included was asked. The SA WG4 Chairman responded that the languages had to be limited for practical reasons and that 5 representative languages had been chosen (the Korean language was not included in the chosen languages). The Charaterisation Phase had not yet started and other languages could be chosen for inclusion in the Characterisation tests.

For the 3G AMR Narrowband Charactarisation Phase, the contracts for these tests had been prepared. The work was expected to start shortly. It was found that the cost of performing the tests in the Korean Language would be 5000 Euro higher than originally estimated and this additional cost needed to be agreed by the 3GPP Partners. Mr. Adrian Scrase, MCC undertook to take this request to the PCG.

7.4.2 Questions for advice from TSG-SA WG4

TD SP-000366: LS from SA WG4: Response LS to TSG SA on Call Control Applications in External Devices. The SA WG4 Chairman introduced this LS, which highlights the surprise of SA WG4 to find that TSG T thought they were specifying the call control functions within mobile equipment, as they do not intend to specify this. The liaison explains some scenarios for call configurations for support of 3G-324M. It was noted and the work produced by WG4 should not provide any limitations. The document was then noted and the issue was considered under agenda item 8.3.2 (report from TSG T).

7.4.3 Approval of contributions from TSG-SA WG4

Approval of CRs:

TD SP-000395: CR001 to TS 26.110 on CS Multimedia Codec specification for real time text conversation (R'00). It was noted that the Chairmans report contained an error in Category and should have been Category B, rather than F. This CR was approved (as Category B).

TD SP-000396: CR006 to TS 26.111 on MPEG-4 interface to multiplex (R99). During the presentation of the report, it was asked whether this CR refered to the physical or logical interfaces within the ME. It was clarified that this was an interface between the encoded bit stream and H.223, and was a logical interface, which would affect how the data appears on the physical interface. This CR was approved.

TD SP-000397: CR001 to TS 26.132 on Handheld hands-free Test Setup (R99). This CR was approved.

Liaisons:

TD SP-000399: Proposed LS to ITU-T Q.15/16 on H.263 Annex X. This LS provides comments as requested by ITU-T on 2 planned profiles for wireless multimedia terminals. SA WG4 report that more time is needed to study this. This liaison was endorsed by TSG SA and participating organisations were asked to input this to the ITU-T Q15/16.

TD SP-000400: Proposed LS to ITU-T SG16 on basic operators. This liaison was endorsed by TSG SA and participating organisations were asked to input this to the ITU-T SG16.

TD SP-000401: Proposed LS to MPEG-4 regarding 3G-324M. This explains that a subset of MPEG-4 is used in terminals due to space limitations and asks MPEG-4 to define a level 0 to the visual simple profile suite. This liaison was endorsed by TSG SA and participating organisations were asked to input this to the MPEG-4. **MCC were asked to ensure that MPEG-4 are added to the list of external liaison bodies, via the PCG.**

It was clarified that there was no formal reason for LSs to be endorsed by a TSG after approval in a WG, but that this was at the discretion of the WG. It is sufficient that the information on liaisons to external bodies is provided to the TSGs.

Work Items:

TD SP-000398: Proposed WI description on Multimedia codecs for conversational packet-switched services. This work item was intended for completion and approval at SA#10 in December 2000.

The timescales were questioned as any specifications would need to be seen for information before approval, so that SA#11 would be more realistic for approval. The TSG SA Chairman agreed but emphasised that this procedure should not delay completion of work, but that there was a possibility that it would not be formally approved at SA#10, but at least a stable version would be available. It was also clarified that the main work was in choosing from existing codecs, rather than the design of new codecs. The overall timescale, including the performance characterisation and protocol work was SA#14.

The use of the CS domain codecs for the PS domain could be considered, but evaluation of this would be needed for audio codecs.

After this discussion, the WI description was approved. The concerns of the feasibility of fulfilling the first milestone by SA#10 was noted. The secondary responsibility for the WI was T WG2, and they should monitor any impact on their work.

It was also noted that this work item needs to be linked correctly in the overall work plan.

7.5 TSG-SA WG5

7.5.1 Report from TSG-SA WG5 and review of progress

TD SP-000432: Status report from SA WG5 to SA#9. The SA WG5 Chairman presented the report using the presentation slides provided in TD SP-000431. TMF is the telecommunication Management forum (used to be MMF). This is an influential group in telecommunication Management. This group is attempting to capture the 3rd Generation industry requirements and have informed SA WG5 of the requirements.

7.5.2 Questions for advice from TSG-SA WG5

Work Plan:

TD SP-000440: Proposed Work-plan for SA5. This document was noted.

7.5.3 Approval of contributions from TSG-SA WG5

Approval of CRs:

TD SP-000433: CRs to Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain (32.015). These CRs were approved.

TD SP-000434: CRs to 3G Performance Management (32.104). It was noted that the front page of the CR indicates “R00” in error, and this CR was approved **as a Release 1999 CR**.

TD SP-000435: CRs to Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA Solution Set version 1:1 (32.106-3). This CR was marked as editorial (Category D) which is not normally accepted for Release 1999. The CR is also an instruction on how to change the document to implement the CR. The instruction was not considered clear enough for sure implementation (i.e. the use of “etc.” for where to implement the change). After consideration, the SA WG5 Chairman decided to withdraw this CR at this time for further elaboration in SA WG5 and re-presentation for approval at TSG SA#10.

TD SP-000437: CRs to Telecommunications Management; Fault Management; Part 1: 3G fault management requirements (32.111-1). These CRs were approved (as Category F CRs).

TD SP-000438: CRs to Telecommunications Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (32.111-2). These CRs were approved (as Category F CRs).

TD SP-000439: CRs to Telecommunications Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1 (32.111-3). It was noted that two of the CRs were marked as category D (Editorial) CRs. It was also noted that the corresponding CRs to 32.106 had not been produced for consistency with these CRs. **CRs 003** and **004** were approved and **CRs 001** and **002** were postponed in order to allow clarification on related changes and their categories.

NOTE: The change bars for CR004 were not visible in the PDF version of this document and the Word version should be consulted.

The CR numbers for 32.111 parts 1, 2 and 3 above were questioned, as the versions of the specifications were above version 3.0.x which implied that a CR had already been approved to it. It was clarified that version 3.1.x was a result of the splitting of 32.111 into parts.

Specifications and Reports:

TD SP-000436: 32.106-5 (v1.0.0) Configuration Management; Part 5: Basic Configuration Management IRP: Information Model version 1 (Release 1999). This specification was presented for information and was noted. Comments to SA WG5 are welcomed for the further elaboration of the document towards approval.

Work Items:

TD SP-000441: Work Item Descriptions for Release 2000 (R4/R5).:

Principles, high level Requirements and Architecture: The completion date of Rel5 was questioned. It was clarified that the TMN work lags the other specification work and this was intended for Release 2000 (Rel4) in the Rel5 time frame. The existence of related work items in SA WG1/SA WG2 were questioned. It was explained that these are building blocks which continuously update the management architecture. It was also pointed out that some of the “linked work items” do not exist.

This WI was approved with the ***conditions*** given below. It was noted that this WI would require completion in advance of the stated Rel5 date to allow other groups to complete their work and OAM aspects. An updated WI description should be presented to SA#10.

3G Telecom Management: Fault Management: This WI description was approved with the ***conditions*** given below.

UTRAN Operations and Maintenance procedures: This WI description was approved with the ***conditions*** given below.

Subscription Management: This was explained by the presentation of TD SP-000479. This WI description was approved with the ***conditions*** given below.

Conditions for approval:

MCC were asked to ensure that proper guidance is provided to SA WG5 on the use of Work Items and completion of Work Item Descriptions.

The affected areas (ME, USIM, etc.), were unclear and this should be reviewed to localise the affected areas. **The updated work items should be updated and presented to SA#10 in the correct format**.

TD SP-000479: Overview of the Subscription Management. SA WG5 proposed a new feature-level work item for the subscription management (see above) and this contribution was provided to clarify the subscription management’s importance within the overall service operation management area. This document was discussed and noted.

7.6 Report and review of Inter-Group Co-ordination work (IGCs)

TD SP-000478: IGC presentation to SA#9. This was presented by Alain Sultan, MCC. The status of the work plan (status on 20 September 2000, updates may come from the TSG#09 meetings) and the activities and reported progress of the IGCs was outlined. Whether this work plan was for Release 1999 and Rel4 was questioned. It was clarified that the work plan is for Rel4 and Rel5, the exact content of each release being dependant on the agreements made for each work item and the content of Rel4. It was reported that the Advanced Cell Broadcast status was incorrect, and this may be deleted, depending upon decisions in TSGs and that Terminal Local Mode was delayed (rather than on schedule). The information on LCS was based upon a telephone call and should not be taken as accurate until it is updated by the IGC convenor.

It was generally agreed that even though the plan could be improved, it has provided better visibility to the progress of the work over that for the Release 1999 work.

TD SP-000486: Work Plan Version 26.9.00. This was introduced by Alain Sultan, MCC. A cover sheet was included which described the content of the project file. The Project file had been modified to identify the ability to transfer work items from one Release to another, by the inclusion of a “splitable” flag.

The agreement of inclusion of the Stage 3 for IP based basic call was questioned (as it was not directly attached to any other work item). It was explained that this was a milestone and not a work task. The CN Chairman explained that the milestone was thought to be useful for this item.

The change of row numbers due to addition/deletion of items in the project plan was thought to be a problem of identification. It was explained that there is a unique identifier available in the plan which can be used instead of the project table index numbers.

Delegates were asked to study this work plan in order to facilitate the Rel4 and Rel5 discussions later in the meeting.

It was agreed that Alain Sultan would distribute a TSG#9 corrected work plan on the TSG lists by 6 October 2000.

7.7 Review of TSG-SA Release 1999 completion

There were no contributions discussed under this agenda item.

7.8 Review of TSG-SA Release 2000 status

There were no contributions discussed under this agenda item.

7.9 Review of TSG-SA work programme

There were no contributions discussed under this agenda item.

7.10 Letters to other groups

There were no contributions discussed under this agenda item.

7.11 Other issues

TD SP-000475: Renaming the CS domain. This was introduced by Ericsson and proposed to change the term “Circuit Switched (CS) Domain” to “Telephony Domain” in order to reflect what the domain is most commonly used for, rather than refer to the transport mechanism used for the domain in Release 1999. Although there was support for re-naming the term “Circuit Switched Domain”, there was some objection to the use of “Telephony Domain” instead, as this would cause confusion over the applicability of Telephony to certain domains (e.g. the Multimedia Domain). The confusion of the use of CS Domain was noted and interested delegates were asked to discuss whether to find another term to replace it, or to clearly define the term “Circuit Switched Domain”.

8 Technical coordination with TSG-CN, TSG-RAN, TSG-T and TSG-GERAN

8.1 TSG-CN

8.1.1 Report and questions for discussion from TSG-CN

TD SP-000480: CN#9 Draft Meeting Report. The draft report was provided for information and presented by the TSG CN Chairman using presentation slides provided in TD SP-000481. guidance Was requested from TSG SA on the selection of the TrFO break solution. TSG CN have agreed to start a feasibility study on Positive Authentication Reporting in response to SA WG3 request for 3GPP2 harmonisation. Proposals for changes to the common working procedures to include revision tracking in the project plan and improved CR categories.

TSG CN also resolved issues from SA#08 on GEA2 Ciphering, Removal of Service Accept Message (compromise solution), Hexadecimal IMEI (no action taken) and Terminology.

The completion for Stages 2 & 3 multimedia subsystem was clarified to be targeted for December 2001.

TD SP-000472: TrFO Workshop Status Report. This report was noted

TD SP-000473: TrFO#03 Meeting Report. This report was noted

TD SP-000474: Revised Meeting Report of the TrFO & TFO Harmonisation Workshop#2. This report was noted

8.1.2 Information on Release 1999 and Release 2000 status in TSG-CN

TD SP-000423: TrFO Workshop Results (N4-000720). This document was presented for information and was noted.

TD SP-000424: Report and questions for discussion from TSG-CN. This refers to the TrFO workshop results, provided in TD SP-000423. TD SP-000424 was introduced by Siemens AG and proposes the following (the fifth bullet was not included, as it had already been covered):

- SA plenary does not consider it appropriate to give a guidance (decision) on the specific technical matter as the two alternatives for obtaining RFCI information at TrFO Break.

- SA plenary suggests that a decision on the two alternatives is taken at the next TrFO joint work shop (17.-19.10.2000, UK)

- SA plenary encourages the participation of experts from all relevant working groups (N1, N4, R2, R3, S2, S4)

- During presentation of the document, Siemens remarked that the involvement of RAN WG2 is no longer part of the most recent version of the work plan, so that the proposal to this respect in SP-000424 was no longer valid.

TSG SA noted the information and that an action plan had been created for TSGs CN and RAN, so it was considerd too soon for TSG SA to make any decisions at this point. TSGs CN and RAN were asked to develop the work and come to an agreement on the solution. If this could not be agreed then TSG SA would be willing to make a decision/recommendation at the SA #10 meeting.

8.1.3 Information on status and changes to deliverables

8.2 Report from TSG-RAN

8.2.1 Report and questions for discussion from TSG-RAN

TD SP-000483: RAN#9 Status Report. The TSG RAN Chairman presented the report of TSG RAN Progress to TSG SA. It was reported that the Release 1999 specifications were becoming stable and that work items for Rel4/Rel5 had been considered and drafted at their meeting.

RAN WG1: The main work of RAN WG1 had moved to Rel4.

RAN WG2: There are no more open issues in RAN WG2, although there are still a significant number of Corrective CRs on RRC. Some holes were found in Security, which have been partially dealt with. The Stage 3 description is still missing for RRC.

RAN WG3: The Chairman had resigned and a new Chairman for RAN WG3 will be elected at the next meeting. Most of the problems were solved, but some issues remain, which are detailed in the RAN WG3 report to TSG RAN (TD RP-000369).

It was reported that the MCC support staff workload is very high, and that some relief had been provided by ARIB in the implementation of approved CRs (for a limited period of time) and by the recruitment of additional MCC staff.

It was asked what is not to be completed by March 2001 for the Real-Time services handover for the PS domain (a RAN Improvement Feature). It was clarified that the only part targeted for finalisation in March 2001 are the items in TSG RAN. The schedule for the other work in 3GPP was not known. It was reported that TSG GERAN had asked to make contributions to relevant groups on this, instead of holding long discussions in GERAN and it was warned that a similar problem may occur in TSG RAN.

It was clarified that the UE positioning requirements are for Rel4 (Slide 14 of TD SP-000483). It was further clarified that the Iub/Iur interfaces for UE positioning methods were for Rel4, but that the basic functionality was included in Release 1999.

(Slide 19)The Low Chip Rate TDD study on the impact was reported to be expected to be completed early in October 2000, and RAN WG1 and RAN WG4 will hold a workshop if considered necessary.

Work items on RAB QoS Negotiation/Renegotiation over Iu (slide 12) should be provided to TSG CN and SA WG2 for information and copied to TSG GERAN.

It was questioned whether the WI "Smart Antenna" (Slide 15) had an impact on the terminal, and if TSG T needed to start work on this. It was clarified that the main impact was on the network side rather than on the terminal.

TSG SA noted that TSG RAN have received an input document requesting work on the UMTS 1800 band, which has been approved as a new work item in RAN WG4. The selection of bands was understood to be designed in such a way that code points are not used up preventing further bands to be selected in the future.

The adoption of the IETF solution for IP header compression (Slide 20) was questioned. TSG RAN had discussed this and potential problems noted, but it had been decided to adopt the IETF solution and monitor any problems that may come up.

8.2.2 Information on Release 1999 and Release 2000 status in TSG-RAN

It was agreed in TSG RAN that the target date for Rel4 (Release 2000) would be March 2001 (note, an error in the slides state this as March 2000). Some work items had been moved to Rel5 (see the presentation slides and TSG RAN meeting #09 report for details).

8.2.3 Information on status and changes to deliverables

There were no contributions discussed under this agenda item.

8.3 Report from TSG-T

8.3.1 Report and questions for discussion from TSG-T

TD SP-000482: TSG T#9 Status Report. The report from TSG T to TSG SA was presented by the TSG T Chairman. The Terms of Reference were revised in TD TP-000183 and approved by TSG T. The UE Conformance testing specification was approved by TSG T (TS 34.123-2). After approval of some CRs to TS 34.109, it was agreed in TSG T that the specification was now stable enough for transfer to RAN WG2. The T WG2 SWGs were restructured to better organise the work of T WG2, a number of new work items were approved and specifications provided to TSG T for information (see presentation slides for details). It was reported that the "newSMG9" group had now officially become an ETSI Project EP SCP (Smart Card Platform) and that work was progressing on smart cards.

The statement that a R99 ME need not support USIM functionality was questioned (slide 17). It was clarified that T3 assume that if you have a GSM-only R99 mobile, it need not support the USIM application, because it uses the GSM security architecture (GSM AKA). The difference between the USIM application and the "SIM/USIM card" (UICC) was highlighted, such that a UICC which supports only the USIM application, inserted into a GSM-only R99 ME will not function, as the ME will not support the USIM application. It was reported that the assumptions of T WG3 were agreed by SA WG3 who would follow this when confirmed as a service requirement in SA WG1. After some discussion, it became apparent that there was confusion of the mechanisms and it was reported that TS 33.102, subclause 6.8 contained clarification of the different scenarios.

TSG T asked clarification from TSG SA on the need for the WI on Advanced Cell Broadcast (slide 22). The work item had not progressed for some time and deletion was considered. Alain Sultan reported that after a warning that the WI would be deleted if no progress was made, it had already been removed from the Project plan. A study was suggested to check the scope and feasibility of the advanced cell broadcast in 3G networks. TSG SA endorsed the deletion of the WI and agreed that a feasibility study should be set up on this by SA WG1 with cooperation of TSGs RAN, T.

Withdrawal of 03.39 (slide 10) Clarification of the version(s) that are intended for withdrawal was requested. It was clarified that the content was copied into TR 23.039. MCC were asked to clarify what would happen to this document.

8.3.2 Information on Release 1999 and Release 2000 status in TSG-T

TD SP-000471: LS on Transfer of EMC documents 34.124 and 34.926. This LS was copied to TSG SA for information and was noted.

TD SP-000364: LS on Priority of ME resources for WAP and SIM toolkit applications. This LS was discussed as part of TD SP-000379 (see report under agenda item 7.1.3).

TD SP-000363: LS from T WG2: RE: Applications on external devices. This Liaison was presented by the TSG T Chairman. T WG2 responded to TSG SA that joint work is needed in 3GPP groups in order to achieve a secure way of connecting applications to external devices. It was agreed that input from MRPs and other bodies is required in order to do this analysis in T WG2 and SA WG2. The UMTS Forum Coordinator agreed to take this question to the UMTS Forum for consideration.

The SA WG1 Chairman suggested that MRPs may not be able to provide the reasons for connection of applications on external devices. It was further suggested that it would be valuable and within their interest to give feedback on what they do NOT want as well. This could include possible scenarios endangering e.g. conformance testing validity. The involvement of outside bodies (who may be able to provide sound reasons for this functionality) should be considered, after the impact studies in SA WG2. These comments were noted.

Anyone interested in this topic were encouraged to participate in and contribute to the forthcoming T WG2 meetings.

8.3.3 Information on status and changes to deliverables

There were no contributions discussed under this agenda item.

8.4 Report from TSG-GERAN

8.4.1 Report and questions for discussion from TSG-GERAN

TD SP-000463: GERAN Status Report#1. The first report from TSG GERAN to TSG SA was presented by the Convenor of GERAN (Niels Peter Skov Andersen).

The presentation included attachments of the TSG GERAN (GSM/EDGE Radio Access Network) Terms of Reference (ToR) and the ToRs of its four WGs. The titles of the working groups were as follows:

GERAN WG1: Radio Aspects
GERAN WG2: Protocol Aspects
GERAN WG3: Base Station Testing and O&M
GERAN WG4: Terminal Testing

Also attached to the report was the list of CRs for TSG GERAN specifications and reports and a detailed work plan, which has been incorporated into the main 3GPP Project plan (but which had not yet been checked for correctness).

There had been some discussion about the transfer of GERAN Terminal Testing work (GERAN WG4) into TSG T (T WG1) in order to facilitate compatibility in the testing area. The following definition of responsibilities was made:

- TSG GERAN WG4 responsible for Access Stratum (AS) related to GERAN
- TSG T WG1 responsible for Access Stratum (AS) related to UTRAN

- Dual mode testing split following the core specifications
  - TSG GERAN WG4 responsible for GSM to 3G HO/ Cell selection
  - TSG T WG1 responsible for 3G to GSM HO/Cell selection

The situation for Non Access Stratum:

- Part of Non Access Stratum test dependent on access network, e. g., Mobility Management
- Part of Accees Stratum common core specifications, but separate test cases
- TTCN test cases developed by TSG T can theoretically cover both GSM and 3G, however if adopted today no verified test cases would exist for GSM Release 99
- The GSM TTCN cases do not have a clear separation between AS and NAS – Therefore AS TTCN cases needs reworking to have common NAS test cases

TSG GERAN will have to consider the full consequences of any change on availability of single mode GSM tests.

8.4.2 Information on Release 1999 and Release 2000 status in TSG-GERAN

The specification numbering for the GSM specifications had been agreed:

Specifications up to GSM Release 99: No change to specification numbers and versions.

Specifications for GSM Release 2000 onwards:
GSM ab.cd → 3GPP TS/TR (**40**+ ab).**0**cd (e.g. GSM 05.08 version **9.1.0** → 3GPP TS **45**.008 version **4.1.0**).

8.4.3 Information on status and changes to deliverables

Concerning meeting planning for TSG GERAN, the rule of not meeting in parallel with other TSGs was agreed, in order to allow the TSG RAN experts to follow both TSGs. This was extended as a principle for GERAN/RAN WGs where possible.

8.5 Letters to others groups

There were no contributions discussed under this agenda item.

8.6 Review of Release 1999 specification set

No contributions were provided and no real concerns had been identified during the meeting.

It was noted that TS 31.122 was a new specification in Release 1999. It was also noted that an update to TS 21.101 would be expected when this document is placed under change control.

8.7 General aspects of Release handling and definition

TD SP-000476: Draft 03 of the minutes of the SA Ad-Hoc on Work Plan for next Releases. This was provided for information and was noted.

TD SP-000477: Draft Principles of 3GPP Work Planning - Release Mechanism. This was presented by the TSG SA Chairman. The main Principles are outlined below:

- A release shall consist of a well-defined, stable and internally consistent set of functions;
- A release shall be documented in a maintained, consistent stream of specifications;
- Essential corrections to a stable or frozen release shall be included in the applicable release;
- New or changed functionality shall be included in new (rather than retrospectively in old) releases.

It was noted that some of the other basic principles of the work of TSG SA need to be included.

The workshop proposed that in order to decouple the Release from the Calendar Year, that Releases should be identified by a number corresponding to the major version number for specifications in that Release. e.g. Release 2000 becomes Release 4 (Rel4), the following release will be Release 5 (Rel5), etc.

The timing of Releases should be identified and maintained in the Project plan (i.e. a “3GPP Road Map”). The content of the Release should be based upon the work plan with a well defined closing time for the content of a Release (6 – 9 months before completion of a particular Release).

TSG SA were asked by the workshop to endorse the following points:

- The principles discussed in section 1 of TD SP-000477;
- The principle described in section 2 as “Proposed 3GPP release organisation” for handling documents;
- Extend and maintain the work plan to include items beyond what so far has been known as R00;
- Release mechanism principles discussed in section 3.

A clarification of the freezing of a feature was made, in that the approval of specifications may still allow update (via CRs) before freezing as well as after freezing. The point of freezing is a milestone for when a WI's functionality is stabilised.

A request to include these principles in a more permanent document was made, it was suggested that this be inserted into the working methods document (TR 21.900) in a suitable format in order to preserve the information. This proposal was agreed and a CR would be required for this which would be drafted by MCC for approval at SA#10.

The 4 principle points above were then endorsed by TSG SA.

TD SP-000462: Work Planning Principles. This was introduced by the TSG CN Chairman which confirmed that TSG CN have adopted the following principles and ask TSG SA to endorse them:

- the decoupling of standards releases (versions of the standards) from the year on year deliverable approach
- that the stage 2 and 3 of the IP Multimedia Subsystem are included in the same release of the specifications (Currently UE-CSCF SIP stage 3 is scheduled for completion by Dec 01).
- that there is no priority or precedence given to Release 4 over Release 5 when working the feature in the working groups. Generally, for future parallel working releases there should be no priority or precedence given of one release over another.

These principles were endorsed by SA and it was noted that the priorities are based upon the priority of individual WIs and not on a particular Release (e.g. Release X could be started before completion of Release X-1).

TD SP-000466: Handling of further studies items and editor's notes in documents for TSG approval. This was introduced by Lucent and asked for a consistent method for creation of editors notes in specification. It was agreed that Rapporteurs should avoid to leave areas "For Further Study". In reality, this does occur, and a note should be added to the Foreword to say that this means that the function is not a part of this Release/Protocol. **MCC were asked to take this into account**.

TD SP-000467: Handling of documentation for release 4 and release 5. This was introduced by Lucent and proposes that SA consider the following options.

1. The current working procedures are followed. Change requests are created, but these are not provided to the TSG until all further study items are closed. The Change requests are continuously revised in order to do this.
2. Release 4.y.z and 5.yz. versions of existing specifications are created and kept under change control. Change Requests are generated and accepted at SA plenary, even if further study items are not closed. Subsequent Change Requests will be required to remove the "For Further Study" items, before the release is declared stable.
3. Interim versions, that are not under change control, are produced and developed with the Working Groups until all further study items are closed. Then the document then moves into change control. An interim version will need to be clearly indicated in the version number. e.g. the version number of xA.y.z could be used to indicate an interim version under change control. The version number would then move to x.0.0 when the draft is approved at the TSG Plenary. i.e. 3.y.z -> 4A.y.z -> 4.y.z. It will be the responsibility of the Working group to ensure that changes from earlier releases are reflected within the interim draft as they are agreed.

It was noted that options 1 and 2 could be used, as trace-ability of changes to documents under change control is essential, and this is not provided with option 3. It was agreed that the application of the current working methods would produce option 2 with some allowance for exceptions to the good working practice of removing all "For Further Study" items before considering a document as stable. No change to the working procedures was therefore agreed, but the principles of full stability should be strived for in the documents.

8.8 Review of Release 2000 status and content

TD SP-000486: The TSG SA Chairman asked if the study of the work plan had raised any questions or comments. The changes from TSG CN needed to be included in the Work Plan, and the TSG CN Secretary was asked to help with this. It was confirmed that the distribution of the Project file should be accompanied by a PDF version for those who do not have the software to open the Project file. A request for a permanent solution for readability of the project plan was made and Alain Sultan was asked to try to provide an Excel file in addition. MCC were asked to consider a link from the web pages to facilitate access to the latest project plan. Mr. John Meredith, MCC agreed to investigate the possibilities for this.

Comments for update to the work plan should be addressed to the Secretary of the responsible TSG or WG for the work task.

It was noted that the Global text Telephony Stage 2 was planned for March 2001 by SA WG2, but this had slipped to June 2001 due to the slippage of the Stage 1 in SA WG1.

With these comments, the project plan was noted.

TD SP-000427: Planning for the Release 4 part of “Release 2000”. This was introduced by Vodafone and asks TSG SA to endorse their proposal that Release 4 be targeted for completion in March 2001. It suggests that this is a realistic timescale and provides a useful content before Release 5. It was reported that the dates in the work plan on the second page of the contribution had not been agreed and the March 2001 timescale may no longer be realistic. It was clarified that the work plan had been updated since then and that this was used as an example in the contribution. Vodafone considered that the March 2001 timescale was a realistic target for all specifications to be stable, with the expectation of corrections after this date.

The handling of protocol versions was questions and it was clarified that the Protocol version numbering is decoupled from the Releases. This contribution intended to arrange the work items in order to allow the extraction of stand-alone features, which could be taken independently to construct a set of features for a Release.

After some discussion, the basic principles of this contribution were agreed, and it was also agreed that the finalisation of the content of Rel4 would be made, with a deadline of March 2001 for completion (TSG#11 / GERAN#03).

It was decided that a final list will be created in SA#10 for Rel4, containing items which will be completed in March and a list of items where non-corrective CRs are acceptable. The work plan will indicate which WIs will be completed in time and therefore included in Rel4, along with a list of open items for later completion. Long term work also needs to be tackled to plan future Releases. All WGs are expected to update the Project plan as accurately as possible before the TSG#10 meeting to facilitate this work.

It was noted that many operators are keen on having this freeze date.

MCC were asked to ensure that all CRs which were marked with uncertain Releases be marked with the correct Release in the CR database according to the Project Plan. A list of the CRs with their correct Releases will be attached to the meeting report.

TD SP-000422: Release 4 & 5 – Priorities. This contribution informs TSG SA that Hutchison 3G supports the TD AHROO- 0031, output document from the 3GPP TSG SA Work Planning Meeting. This contribution was noted and it was decided to make the target date for Rel5 as December 2001.

A request for the release of the next version of the project plan as quickly as possible was made. Alain Sultan (and MCC) were asked to make it available by 6 October 2000.

8.9 Beyond Release 2000 (Vision, Phasing etc.)

TD SP-000365: 3GPP Work Management, Release Planning and Vision. This contribution was introduced by BT under agenda item 4 and was represented for discussion. There was some objection to the principles of this contribution and it was suggested that the output of workshops and WG discussions should be used to provide widely supported ideas for the vision of the project. It was concluded that it is not the right time to create such a group on long term vision, recognising that some long term vision is needed and that a workshop is to be arranged for this.

BT requested that long term vision discussions could be reserved for a particular time at the TSG SA meetings to focus on the topic. The TSG SA Chairman replied that such scheduling could disrupt the completion of the meeting agenda at the meeting. It was also suggested that the detail of long term planning should not be done in the TSG Plenary, but rather in another group.

TD SP-000490: Scope and ToR for the "Service Vision and Scenarios" Workshop. This contribution was presented by BT and proposed to arrange a 3GPP TSG SA Ad-hoc, principally for guidance to SA WG1, SA WG2 and T WG2 to provide service scenarios for Rel4 onwards.

The adequacy of a 2 day workshop to tackle this large subject, and the non-inclusion of any CAMEL work was questioned. It was clarified that the object of the workshop was to provide an open arena where issues and ideas can be discussed and not to limit the progress on CAMEL. The proposed ToR for this workshop does not include progress of CAMEL, but to address the service aspects from an end-user service and service provider operational perspective.

It was decided that the open issues on service control (e.g. CAMEL issues) should be dealt with seperately by SA WG1 and SA WG2, rather than in this workshop.

TSG SA noted the proposal for a Workshop. It was clarified that the workshop would deal with the service level and discuss how to operate services. It was emphasised that the workshop had no mandate to take decisions. The workshop would be a one-time event . TSG approved the scope and chairman (Mr. Harald Dettner) for the workshop, as provided in TD SP-000490, and the Objectives and Terms of References were deleted. The workshop was expected to take in ideas from Members and provide information to SA WG2, SA WG1 and T WG2.

8.10 Other issues

No contributions were received

9 Project Management

9.1 Review of work programme

TD SP-000488: 3GPP Specifications Status List near end of TSG SA. This status list was provided for information by John Meredith, MCC. It was noted that non-existent specifications were included. It was agreed that this should not be included in future, as it can cause confusion. It was also agreed that:

- a column indicating the specifications needed to build a 2G system and a column indicating those needed to build a 3G specification in order to be able to extract easily the full set was needed.
- the tables for each Release of the specifications should be separated.

The document was then noted.

9.2 Working methods

TD SP-000402: Role of the Rapporteur CR to 21.900. MCC were asked to consider clarification to the role of the Rapporteur at TSG#08 meetings and this CR contained the proposed text. This CR was approved.

TD SP-000460: Liaison statement to TSG-GERAN, TSG-RAN, TSG-SA & TSG-T on CR categories. The inclusion of editorial CRs to frozen specifications was objected to, as the inclusion of such changes add no value to the technical content. Editorial fixes should be done along with a Corrective CR to ensure that all CRs to frozen specifications are considered, and no changes go unnoticed. With this explanation, the CR was approved, with the removal of the changes for “Editorial modification” (but allowing the change “implication” to “implementation” and the addition of the text “This Category shall not be used for a frozen Release). The updated CR was provided in TD SP-000492 which was modified editorially and relaced by TD SP-000493 which was approved.

TD SP-000461: Proposed LS and associated CR on CR categories for frozen releases. This CR includes the principles for the categorisation of CRs to frozen releases. This CR was approved.

It was asked whether these changes to 21.900 had an impact on the CR Form. It was concluded that there was no significant change, except the change to Release 4, Release 5 terminology should be added. It wasd asked whether the use of the old version of the CR form instead of the new version would cause rejection of a CR. It was stated that delegates should be urged to use the new CR form, however the use of the old CR form should not be the sole reason for the rejection of a CR as long as all necessary information is included.

MCC were asked to ensure that the results of WG meetings are provided to other WGs (via the Leaders List), using a common set of slides.

9.3 Other issues

There were no contributions discussed under this agenda item.

10 Project support

TD SP-000459: MCC report to TSG SA. Mr. Adrian Scrase presented the status report from MCC. He reported 3 departures from MCC expert team. Franco Settimo, David Williams and Monica Hellman who were thanked for their hard and dedicated work in MCC. Replacement experts have been recruited: Cesar Gutierrez, Kimmo Kymäläinen and Per Johan Jørgensen. Members were thanked for offering these experts to MCC. One further departure had been announced since the writing of the report, as Ban Al-Bakri will leave MCC at the end of the year. Ban was also thanked for her great contribution to the work.

In order to relieve the problem of CR implementation for RAN WG specifications, ARIB have agreed to provide voluntary experts on a temporary basis.

Support for 2001: An indication of additonal resource requirements or funding for specific tasks in 2001 was requested: TSG Chairs were asked to provide info to next TSG meeting.

Wireless LAN: Purchase of IEEE 802.11b wireless LAN PC cards by delegates. There was support for the use of this, but delegates would need to justify this within their companies. MCC were asked to provide information to assist delegates to determine the cost and to acquire cards.

Webcasting of TSG meetings: A pilot study is being carried out by ETSI, which MCC is monitoring. TSG SA were asked to indicate whether there was any interest in the use of this facility during TSG meetings. The possibility of access restriction was discussed. This would be difficult to implement, as the current 3GPP site is not password protected. It was concluded that there was some interest in this, with some reservation on the openness of it.

TSG Meetings CD-ROMs: MCC asked whether a set of TSG CD-ROMs (or DVDs) would be wanted after each round of TSG meetings, and whether the inclusion of specification sets would be wanted (on a cost-recovery basis). Some reservation on supplying **only** on DVD was expressed for compatibility reasons. An indication was given (approx 20% of those present indicated they would purchase the CD).

On-line registration for meetings: Ericsson requested that this service is extended to all 3GPP meetings as soon as possible. This request was noted.

11 Postponed issues from earlier in the meeting

TD SP-000489: Liaison with IETF. This contribution was presented by BT and was a result of internal company discussions. It proposes that TSG SA supports a BOF (Birds of a Feather meeting) at the next IETF meeting in December, which would be attended by some delegates from 3GPP. The BOF would be set up with the objective of presenting the current status of the work in 3GPP and discussing how the IETF can develop additional protocols and extensions to existing protocols (e.g. SIP).

It was clarified that TSG SA had agreed to co-operate with the IETF to determine and try to influence the IETF documentation in order to re-use their work as far as possible. The Chairman commented that TSG SA did not need to endorse a presentation of the work of 3GPP to an outside body, as this could be done by anyone organising a conference and obtaining individuals to make presentations.

It was stated that the IETF are, in general, confused about the rules and procedures of 3GPP (and 3GPP2) and this is a cause of frustration when trying to co-operate in their work.

TSG SA encouraged the Members who attend the IETF to provide information from 3GPP to IETF and vice versa without the need for TSG SA to formally set up or endorse such communication. With this, the document was noted.

TD SP-000491: (equivalent to TD SP-000350 at SA#08). Terms Of Reference – IETF coordination. This was introduced by the 3GPP IETF Liaison Coordinator (Ms. Ileana Leuca). It was reported that a collaboration had been established between ISOC/IETF and 3GPP in order to secure the timely development of the

Mobile Internet standards. It proposed that regular reporting on progress in IETF is provided to TSG SA. It was also asked that a method is established to communicate the work progress for items common to the IETF and 3GPP.

The meeting was reminded that the establishment of a low-level co-ordination function to the IETF was agreed at SA#06. The proposed ToR for the co-ordination (TD SP-000350) was provided to SA#08 and it was agreed to present it to the PCG for agreement. It was confirmed that this had been discussed in the PCG with the following result (extract from PCG report):

> *During the discussion that followed it was noted that the existing 3GPP Working Procedures did not prevent a direct liaison being established with the IETF but this was not the IETF's normal method of co-operation which was based more on individual rather than company representation. …*
> *It was agreed that the PCG Chairman would lead an activity to discuss with the IETF how best to establish a closer co-operation. For this purpose, each Organizational Partner was requested to provide one representative to take part in the discussions. Comments were also invited on the draft text of the agreement which had been prepared by TSG SA.*

The responsibilities provided in the document was thought to be open to different interpretations, and needed to be clarified. It was further commented that the terms of reference had not been thoroughly examined at the last meeting, due to late submission of the document. The Chairman reminded the meeting that candidates for the co-ordinator role were requested at meeting SA#08.

After some discussion on the topic of co-ordination between 3GPP and the IETF it was concluded that there was general agreement on the need for this co-ordination, but that the responsibilities need to be revised as follows:

Responsibility of 3GPP/IETF Rapporteurs:

- **Monitor IETF activities of relevance to 3GPP;**
- **Monitor progress of IETF deliverables of importance to 3GPP; and**
- **Provide progress reports to 3GPP TSGs and interested WGs on IETF activities of interest to 3GPP.**

It was therefore decided at this point in time not to accept TD SP-000491 but to adopt the above simplified terms of reference for 3GPP/IETF co-ordination rapporteurs. Candidates for the 3GPP/IETF co-ordination rapporteurs positions were invited to be sent to the TSG SA Chairman by Friday 13 October. Amongst the volunteers a group would be formed and the group would have to ensure that a progress report is provided TSG SA on the activities of interest from the IETF.

Delegates were invited to provide inputs further elaborating the issue of co-ordination with the IETF.

It was clarified that the update of the work plan of 3GPP is the responsibility of the WGs, independent of the activities reported in the IETF.

12 Work plan and future meetings

TD S3-000464 contained a list of future meetings (some minor changes were announced, which are reflected in the table below). A summary of the future meeting dates are given below.

TSG	No.	Date	Venue	Host
PCG	#05	14 November 2000	North America	T1
OP	#04	15 November 2000	North America	T1
GERAN	#02	6-10 November 2000	TBD, Sweden	TBD
CN	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
RAN	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
T	#10	06-08 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
SA	#10	11-14 December 2000	Bangkok, Thailand	Unisys Deutschland GmbH
GERAN	#03	15 - 19 January 2001	TBD	TBD
CN	#11	14 - 16 March 2001	Palm Springs, USA	T1
RAN	#11	14 - 16 March 2001	Palm Springs, USA	T1
T	#11	14 - 16 March 2001	Palm Springs, USA	T1
SA	#11	19 - 22 March 2001	Palm Springs, USA	T1
GERAN	#04	02 - 06 April 2001	TBD	TBD
GERAN	#05	28 May - 01 June 2001	TBD	TBD
CN	#12	13 - 15 June 2001	Stockholm, Sweden	Ericsson
RAN	#12	13 - 15 June 2001	Stockholm, Sweden	Ericsson
T	#12	13 - 15 June 2001	Stockholm, Sweden	Ericsson
SA	#12	18 - 21 June 2001	Stockholm, Sweden	Ericsson
GERAN	#06	27 - 31 August 2001	TBD	TBD
CN	#13	19 - 21 September 2001	TBD, China	Lucent Technologies, CWTS
RAN	#13	19 - 21 September 2001	TBD, China	Lucent Technologies, CWTS
T	#13	19 - 21 September 2001	TBD, China	Lucent Technologies, CWTS
SA	#13	24 - 27 September 2001	TBD, China	Lucent Technologies, CWTS
GERAN	#07	26 - 30 November 2001	TBD	TBD
CN	#14	12 - 14 December 2001	TBD, Japan	TTC
RAN	#14	12 - 14 December 2001	TBD, Japan	TTC
T	#14	12 - 14 December 2001	TBD, Japan	TTC
SA	#14	17 - 20 December 2001	TBD, Japan	TTC
CN	#15	<March 2002>	TBD, Korea	TTA
RAN	#14	<March 2002>	TBD, Korea	TTA
T	#14	<March 2002>	TBD, Korea	TTA
SA	#14	<March 2002>	TBD, Korea	TTA

13 Any other business

No contributions were received under this agenda item.

14 Close of meeting

The TSG SA Chairman thanked the hosts, the North American Friends of 3GPP, the Secretarys for their support and the delegates for their hard work and co-operation in the meeting, and closed the meeting.

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 80 01	+45 4018 4793
Vice Chairman	Gary Jones	Omnipoint	gary.jones@voicestream.com	+1 301 951 2524	+1 703 715 2365	+1 201486 0949
Vice Chairman	Armin Toepfer	Mannesmann	armin.toepfer@d2mannesmann.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	
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Chairman	Alan Cox	Vodafone	alan.cox@vf.vodafone.co.uk	+44 1635 673 332	+44 1635 583 019	+44 385 200 147
Vice Chairman	Randolph Wohler	Pacific Bell Wireless	rwohlert@tri.sbc.com	+1 512 372 5838	+1 512 372 5891	
Vice Chairman	Tommi Kokkola	Nokia Corporation	tommi.kokkola@nokia.com	+358 40 50 40 734	+358 9 511 68080	+358 40 50 40 734
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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					
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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	
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A.2 TSG CN Officials

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Vice Chairman	Vacancy					
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A.3 TSG RAN Officials

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Vice Chairman	Vacancy					
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Vice Chairman	Vacancy					
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Contact person	Nicola Magnani	CSELT	nicola.magnani@cselt.it	+39 011 228 7089	+39 011 228 5295	

A.4 TSG T Officials

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Vice Chairman	Ed Ehrlich	Nokia	ed.ehrlich@nokia.com	+1 972 894 4495	+1 972 894 5525	
Vice Chairman	Kevin Holley	BT	kevin.holley@bt.com	+44 1473 605604	+44 1473 623794	
Secretary	Michael Sanders	3GPP Support Team	michael.sanders@etsi.fr	+33 4 9294 4290	+33 4 92 38 5290	
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A.5 TSG GERAN Officials

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Vice Chairman	Vacancy					
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TSG GERAN WG1 Officials:						
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Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
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TSG GERAN WG2 Officials:						
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Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
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Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
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TSG GERAN WG4 Officials:						
Chairman	Vacancy					
Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
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Annex B: List of documents

Number	Title	Source	Agenda item	Replaced by	Comment
SP-000356	Agenda for TSG SA Meeting #9	Chairman	2		Approved
SP-000357	Draft report of TSG SA Meeting #8	Secretary	3		Approved
SP-000358	Liaison statement (to SA WG2) on appointment of people to maintain liaison with IGC	CN WG4	8.1.1		Noted
SP-000359	Liaison Statement from SA WG1 - Applications on external devices (response to Tdoc SP-00353)	SA WG1	7.1.2		Noted
SP-000360	Proposed LS from SA WG1 on status of IMEI coding	SA WG1	7.1.2		Agreed to postpone decisions until GSMA have reported on IMEI format studies
SP-000361	Proposed CR 006 to 21.900 on Role of rapporteur for both Specifications and Work Items	TSG RAN	9.2	SP-000402	Replaced by TD402
SP-000362	Proposed CR 007 to 21.900 on Procedure for Work Items	TSG RAN	9.2	Withdrawn	Withdrawn
SP-000363	LS from T WG2: RE: Applications on external devices	T WG2	8.3.1		Noted
SP-000364	LS on Priority of ME resources for WAP and SIM toolkit applications	T WG2	8.3.1		Discussed as part of TD379
SP-000365	3GPP Work Management, Release Planning and Vision	BT	4, 8		Workshop discussed in TD490
SP-000366	LS from SA WG4: Response LS to TSG-SA on Call Control Applications in External Devices	SA WG4	7.4.2		Noted
SP-000367	LS to 3GPP CN Chairman	GSM Association Terminals Working Group (TWG)			Noted
SP-000368	Presentation of Status report from SA WG1 to SA#9	SA WG1 Chairman	7.1.1		Noted
SP-000369	Status report from SA WG1 to SA#9	SA WG1 Chairman	7.1.1		Noted
SP-000370	TS22.228 v 1.0.0 “Service requirements for the IP Multimedia Core Network”	SA WG1	7.1.3		Noted
SP-000371	CR (R99) to 22.002 on 32 kbit/s UDI/RDI multimedia in GSM	SA WG1	7.1.3		Approved
SP-000372	CRs (R99) to 22.011 on Alignment with 23.122 on selection procedure	SA WG1	7.1.3		Approved
SP-000373	CR (R99) to 22.060 on Removal of PTM-G text from stage 1	SA WG1	7.1.3		Approved
SP-000374	CRs (R99) to 22.078 for alignment to stage 2	SA WG1	7.1.3		Approved
SP-000375	CRs (R99) to 22.097 and 22.135 on Interaction between Multicall and MSP	SA WG1	7.1.3		Approved
SP-000376	CR (R99) to 22.030 on Codes for defined Supplementary Services	SA WG1	7.1.3		Approved
SP-000377	CR (R99) to 22.091 on CLI presentation modifications	SA WG1	7.1.3		Approved
SP-000378	CRs (R99) to 22.071 on Correction to LCS Service Description Stage 1 for alignment	SA WG1	7.1.3		Approved
SP-000379	CRs (R99) to 22.101 on Interactions between applications requiring the access to UE resources	SA WG1	7.1.3		CR055 Withdrawn, CR056 Approved
SP-000380	CR (R99) to 21.905 on New Abbreviations and Definitions for R99	SA WG1	7.1.3		Approved
SP-000381	CR to various specs on Change of MExE name	SA WG1	7.1.3		Approved
SP-000382	CR to 22.038 on SAT/USAT Support of Multimedia Services	SA WG1	7.1.3		Approved
SP-000383	CRs to 22.101 to implement the requirements for R2000	SA WG1	7.1.3		Approved
SP-000384	CR to 22.129 on Removal of requirements for SoLSA support	SA WG1	7.1.3	SP-000426	Replaced TD426
SP-000385	CR to 22.011 on Reselection attempts of GPRS terminals	SA WG1	7.1.3		CR Withdrawn
SP-000386	CRs to 22.078 for CAMEL phase 4	SA WG1	7.1.3	SP-000425	Replaced TD425
SP-000387	CRs to 22.121 on VHE for R00	SA WG1	7.1.3		Approved
SP-000388	CR to 22.057 on MExE support of multimedia services	SA WG1	7.1.3		Approved
SP-000389	CRs to various specs. for Bearer Modification without pre-notification	SA WG1	7.1.3		Approved
SP-000390	CR to 22.002 on Deletion of bearer service BS 30 NT	SA WG1	7.1.3		Approved
SP-000391	CR to 22.101 on Emergency Call	SA WG1	7.1.3		Approved
SP-000392	CRs to 22.071 on LCS for R00	SA WG1	7.1.3		Approved
SP-000393	New work Item Descriptions for VHE and OSA	SA WG1	7.1.3		Approved

Number	Title	Source	Agenda item	Replaced by	Comment
SP-000394	TSG-S4 Status Report to TSG-SA#9	SA WG4 Chairman	7.4.1		Noted
SP-000395	CR 001 to TS 26.110 on CS Multimedia Codec specification for real time text conversation (R'00)	SA WG4	7.4.3		Cat B CR: Approved
SP-000396	CR 006 to TS 26.111 on MPEG-4 interface to multiplex (R99)	SA WG4	7.4.3		Approved
SP-000397	CR 001 to TS 26.132 on Handheld hands-free Test Setup (R99)	SA WG4	7.4.3		Approved
SP-000398	Proposed WI description on Multimedia codecs for conversational packet-switched services	SA WG4	7.4.3		Concerns about completing milestone 1 at SA#10. Approved
SP-000399	Proposed LS to ITU-T Q. 15/16 on H.263 Annex X	SA WG4	7.4.3		Endorsed
SP-000400	Proposed LS to ITU-T SG16 on basic operators	SA WG4	7.4.3		Endorsed
SP-000401	Proposed LS to MPEG-4 regarding 3G-324M	SA WG4	7.4.3		Endorsed
SP-000402	Role of the rapporteur CR to 21.900	MCC	9.2		Approved
SP-000403	Proposed CR to 22.078:Alignment with stage 2 & 3, and editorial clarification	Vodafone	7.11	SP-000457	Replaced by TD 457
SP-000404	TS 22.226 version 1.0.0 "Global text telephony"	SA WG1	7.1.3		Noted
SP-000405	CR to 22.101 on Text conversion for global text telephony	SA WG1	7.1.3		Approved
SP-000406	CRs to 22.135 on MultiCall	SA WG1	7.1.3		Approved
SP-000407	SA WG3 Status Report to TSG SA#09	SA WG3 Chairman	7.3.1		Noted
SP-000408	Reports of SA WG3 meetings held since SA#08	SA WG3 Chairman	7.3.1		Noted
SP-000409	11 Editorial CRs to TS 33.102	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000410	13 Corrective CRs to TS 33.102	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000411	1 Corrective CR to TS 33.102: Re-transmission of authentication request using the same quintet	SA WG3	7.3.3		Cat F CR. Approved
SP-000412	1 Functional CR to TS 33.102: Profiles for sequence number management	SA WG3	7.3.3		Approved
SP-000413	Editorial CRs to TS 33.103: Correction to BEARER definition	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000414	2 Corrective CRs to 33.103	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000415	Editorial CR to TS 33.105: Calculation of AK in re-synchronisation	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000416	2 Corrective CRs to 33.105	SA WG3	7.3.3	Withdrawn	CRs rearranged in TDs 442 - 446
SP-000417	TS22.127 v 1.0.0 "Service Requirement for the Open Services Access (OSA)"	SA WG1	7.1.3		Noted
SP-000418	Status Report from SA WG3 to SA#09 - presentation slides	SA WG3	7.3.1		Noted
SP-000419	Recommendation for S3/AHAG joint control document (S3-000591)	SA WG3	7.3.3		Endorsed
SP-000420	2 revised WIDs	SA WG3	7.3.3		Approved
SP-000421	6 new WIDs	SA WG3	7.3.3		Supporting companies needed. Approved.
SP-000422	Release 4 & 5 - Priorities	Hutchison 3G	8		Noted
SP-000423	TrFO Workshop Results (N4-000720)	CN WG4	8.1.1		Question to SA: Related doc SP-000424. Noted
SP-000424	Report and questions for discussion from TSG-CN	Siemens AG	8.1.1		Related to SP-000423 (N4-000720). CN responsible for decision.
SP-000425	CRs to 22.078 for CAMEL phase 4 (rev TD 386)	SA WG1	7.1.3		CRs 054, 056, 058, 059, 061 and 064 Approved. Others Withdrawn
SP-000426	CR to 22.129 on Removal of requirements for SoLSA support (rev TD 384)	SA WG1	7.1.3		Approved

Number	Title	Source	Agenda item	Replaced by	Comment
SP-000427	Planning for the R4 part of “Release 2000”	Vodafone	7.8		Basic principles agreed. To reviewed in SA#10
SP-000428	Standardisation of Service Operation Management	SERG /ISG	6.2		Discussed and Noted
SP-000429	CRs to 22.101 to implement the requirements for R2000 Part 2	SA WG1	7.1.3		Withdrawn
SP-000430	CRs to 22.101 to implement the requirements for R2000 Part 3	SA WG1	7.1.3		Approved
SP-000431	Status report from SA WG5 to SA#9 (presentation)	SA WG5	7.5.1		Noted
SP-000432	Status report from SA WG5 to SA#9 (Word)	SA WG5	7.5.1		Noted
SP-000433	CRs to Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain (32.015)	SA WG5	7.5.3		Approved
SP-000434	CRs to 3G Performance Management (32.104)	SA WG5	7.5.3		Release 1999 CRs - Approved
SP-000435	CRs to Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA Solution Set version 1:1 (32.106-3)	SA WG5	7.5.3		Withdrawn
SP-000436	32.106-5 (v1.0.0) Configuration Management; Part 5: Basic Configuration Management IRP: Information Model version 1 (Release 1999)	SA WG5	7.5.3		Noted
SP-000437	CRs to Telecommunications Management; Fault Management; Part 1: 3G fault management requirements (32.111-1)	SA WG5	7.5.3		Cat F CRs. Approved
SP-000438	CRs to Telecommunications Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service (32.111-2)	SA WG5	7.5.3		Approved
SP-000439	CRs to Telecommunications Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1 (32.111-3)	SA WG5	7.5.3		CRs 003, 004 Approved. CRs 001, 002 Postponed
SP-000440	Proposed Work-plan for SA5	SA WG5	7.5.2		Noted
SP-000441	Work Item Descriptions for Release 2000 (R4/R5)	SA WG5	7.5.3		Conditions applied and Approved
SP-000442	22 Corrective CRs to 33.102	SA WG3	7.3.3		Approved
SP-000443	1 Corrective CR to 33.103	SA WG3	7.3.3		Approved
SP-000444	1 Corrective CR to 33.105	SA WG3	7.3.3		Approved
SP-000445	CRs to 33.102, 33.103 and 33.105 on anonymity key calculation during re-synchronisation	SA WG3	7.3.3		Approved
SP-000446	CRs to 33.102 and 33.103 to clarify the integrity and ciphering is applied to radio bearers rather than logical channels	SA WG3	7.3.3		Approved
SP-000447	SA2 Status Report - Powerpoint version	SA WG2	7.2.1		Noted
SP-000448	CRs on 03.60 v.7.4.0 and 23.060 v.3.4.0	SA WG2	7.2.3		Approved
SP-000449	CRs on 23.002 v.3.3.0	SA WG2	7.2.3		Approved
SP-000450	CRs on 23.107 v.3.3.0	SA WG2	7.2.3		Approved
SP-000451	CRs on 23.121 v.3.3.0	SA WG2	7.2.3		Approved
SP-000452	CRs on 23.127 v.3.1.0	SA WG2	7.2.3		Approved
SP-000453	Revised WI coversheet on FS on Push Services	SA WG2	7.2.3		Approved
SP-000454	23.874 v.1.0.0	SA WG2	7.2.3		Noted
SP-000455	CRs on 23.271 v.1.0.0	SA WG2	7.2.3		Noted
SP-000456	23.228 v.1.0.0	SA WG2	7.2.3		Noted
SP-000457	Proposed CR to 22.078:Alignment with stage 2 & 3, and editorial clarification (revised TD 403)	Vodafone	7.11		Postponed to SA#10
SP-000458	Work Planning Principles	TSG CN	12	SP-000462	Replaced by TD462
SP-000459	MCC report to TSG SA	MCC			Noted
SP-000460	Liaison statement to TSG-GERAN, TSG-RAN, TSG-SA & TSG-T on CR categories	TSG CN	9.2	SP-000492	Revised in TD492
SP-000461	Proposed LS on CR categories for frozen releases	TSG CN	9.2		Approved
SP-000462	Work Planning Principles	TSG CN	8.7		Endorsed
SP-000463	GERAN Status Report#1	GERAN Convenor	8.4		Noted
SP-000464	3GPP Meeting Calendar	MCC, Adrian Scrase	12		Noted
SP-000465	Specifications Status List	MCC	9	SP-000488	Replaced by TD488

Number	Title	Source	Agenda item	Replaced by	Comment
SP-000466	Handling of further studies items and editor's notes in documents for TSG approval	Lucent Technologies	8.7		MCC to apply principles of doc for "FFS" in specs
SP-000467	Handling of documentation for release 4 and release 5	Discussion	8.7		No changes to WP, but strive to apply good practices for complete specs
SP-000468	LS Regarding the Proposal to Change IMEI Encoding	GSM North America	6.3		Considered with TD367 and Noted
SP-000469	LS on All IP Network End-to-End Delay QoS Feasibility Study	GSM North America	6.3		Contributions to SA WG2 on QoS requested
SP-000470	LS on Location Services Functionality in 3GPP Specifications	GSM North America	6.3		Noted
SP-000471	LS on Transfer of EMC documents 34.124 and 34.926	TSG T	8.3		Noted
SP-000472	TrFO Workshop Status Report	TrFO convenor	8.1.1		Noted
SP-000473	TrFO#03 Meeting Report	MCC	8.1.1.		Noted
SP-000474	Revised Meeting Report of the TrFO&TFO Harmonisation Workshop#2	N4	8.1.1		Noted
SP-000475	Renaming the CS domain	Ericsson	7.11		Not agreed, but clarification on the use of Circuit Switched Domain is needed.
SP-000476	Draft 03 of the minutes of the SA Ad-Hoc on Work Plan for next Releases	MCC	8.7		Noted
SP-000477	Draft Principles of 3GPP Work Planning - Release Mechanism	MCC	8.7		Endorsed
SP-000478	IGC presentation to SA#9	IGC Convenors	7.6		Input requested and Noted
SP-000479	Overview of the Subscription Management	SA5 Chairman	7.5.3		Noted
SP-000480	CN#9 Draft Meeting Report	CN Chairman	8.1.1		Noted
SP-000481	CN#9 Status Report	CN Chairman	8.1.1		Noted
SP-000482	TSG T#9 Status Report	TSG T Chairman	8.3.1		Noted
SP-000483	RAN#9 Status Report	TSG RAN Chairman	8.2.1		Noted
SP-000484	3GPP Specifications Status List near end of TSG SA	MCC	9		Comments requested and Noted
SP-000485	Withdrawn				Withdrawn
SP-000486	Work Plan Version 26.9.00	MCC	12		Updates to TSG/WG Secretary. Noted
SP-000487	CR 23.060-184r2	SA2	7.2.3		Approved
SP-000488	3GPP Specifications Status List near end of TSG SA	MCC	9		Noted
SP-000489	Liaison with IETF	BT, AT&T, Ericsson	7.11		Members encouraged to ensure communication flow. Noted.
SP-000490	Scope and ToR for the "Service Vision and Scenarios" Workshop	BT, Ericsson, Siemens, Vodafone	7		Scope Approved. Objectives and ToR deleted.
SP-000491	Terms Of Reference – IETF coordination	3GPP IETF Coordinator	13		Not Accepted
SP-000492	Liaison statement to TSG-GERAN, TSG-RAN, TSG-SA & TSG-T on CR categories	TSG CN	9.2	SP-000493	replaced by TD493
SP-000493	Liaison statement to TSG-GERAN, TSG-RAN, TSG-SA & TSG-T on CR categories	TSG CN	9.2		Approved

Annex C: List of attendees and TSG SA Voting List

C.1 List of Attendees

The attached list has not been verified: Please check that your attendance is recorded here:

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Mr. Masahiko Yahagi	NEC Corporation	yamasa@mvc.biglobe.ne.jp		+81 471 85 7161	+81 471 85 6862	3GPPMEMBER - TTC	JP
Mr. Hiroyuki Yamaguchi	NTT DoCoMo	hyama@spg.yrp.nttdocomo.co.jp		+81 648 40 3512	+81 468 40 3788	3GPPMEMBER - ARIB	JP
Mr. Raziq Yaqub	ARIB	raziq@ddi.co.jp		+81 3 3221 9682	+81 3 3221 9694	3GPPORG_REP - ARIB	JP
Mr. Hyuk Yi	LGIC	hlee@lgic.co.kr		+82 31 450 2061	+82 31 450 2944	3GPPMEMBER - TTA	KR
Mr. Yukio Yoshimura	NEC Corporation	y-yoshimura@ax.jp.nec.com		+81 3 3798 4743	+81 3 3798 9967	3GPPMEMBER - ARIB	JP
Mr. Keiji Yoshino	TTC	yoshino@ttc.or.jp		+81 334321551	+81 334321553	3GPPORG_REP - TTC	JP
Mr. Mark YOUNGE	VoiceStream Wireless Corp.	myounge@mobile.com		+1 510 227 3099	+1 510 227 3282	3GPPMEMBER - T1	US
Dr. Albert Yuhan	VoiceStream Wireless Corp.	albert.yuhan@voicestream.com	+1 201 233 2203	+1 973 290 2665	+1 973 290 2575	3GPPMEMBER - T1	US
Mr. Donald E. Zelmer	Bellsouth Cellular	don_zelmer@bscc.bls.com	+1 404 376 6785	+1 404 249 3689	+1 404 249 5157	3GPPMEMBER - T1	US
Mr. Jun Zhang	Zhongxing Telecom Ltd.	zhangjun7@mail.zhongxing.com		+86 021 68810115 419		3GPPMEMBER - CWTS	CN
Mrs. Karin Zickermann	Golden Bridge Technology Inc.	kzickermann@gbtwireless.com		+1 732 870 8088	+1 732 870 9008	3GPPMEMBER - T1	US

C.2 List of eligible Voting members for TSG SA#10

The attached list is dependent upon the information in C.1 and Individual Member companies who are recorded as attending TSG SA Meetings #08 or #07 (representation of an Individual Member at any of TSG SA Meetings #07, #08 or #09).

Voting list for 3GPP TSG TSG SA
(Technical Specification Group - Services and System Aspects)

List Created on: 3 Oct 2000

This report shows the 3GPP Member Companies on the Voting List for **TSG SA Meeting #10**
Inclusion on the list is obtained by attending a meeting of **TSG SA**
A company is removed from this list if it is not represented at any of the 3 previous meetings of this group.
If you believe your company should be included in this list, please provide supporting information to MCC, the 3GPP Support Team at:
3gppcontact@etsi.fr

Organisation Name	Organisation Status	Partner
3COM	3GPPMEMBER	ETSI
Airnet Communications Corp.	3GPPMEMBER	ETSI
AIRTEL Movil SA (AIRTEL Movil SA)	3GPPMEMBER	ETSI
AirTouch Belgium S.A.	3GPPMEMBER	ETSI
ALCATEL BELL	3GPPMEMBER	ETSI
ALCATEL France	3GPPMEMBER	ETSI
ALCATEL Italia SpA	3GPPMEMBER	ETSI
ALCATEL SEL AG	3GPPMEMBER	ETSI
AT&T Corp.	3GPPMEMBER	T1
Beijing Pacific LinkAir (Beijing Pacific LinkAir Communications, Inc.)	3GPPMEMBER	CWTS
Bellsouth Cellular	3GPPMEMBER	T1
BLU S.p.A	3GPPMEMBER	ETSI
BOUYGUES Telecom	3GPPMEMBER	ETSI
BT	3GPPMEMBER	ETSI
BT Cellnet	3GPPMEMBER	ETSI
BMWi (BUNDESMINISTERIUM FUR WIRTSCHAFT)	3GPPMEMBER	ETSI
CATT	3GPPMEMBER	CWTS
CEGETEL	3GPPMEMBER	ETSI
CETECOM GmbH (CETECOM GmbH - Certification and Testing in Communications)	3GPPMEMBER	ETSI
China Mobile Company Corp. (China Mobile Company Corporation (CMCC))	3GPPMEMBER	CWTS
Cisco Systems Inc.	3GPPMEMBER	ETSI
Cisco Systems Inc.	3GPPMEMBER	T1
CMG (CMG Telecommunications & Utilities B.V.)	3GPPMEMBER	ETSI
COMNEON GmbH & Co	3GPPMEMBER	ETSI
Compaq Computer SpA	3GPPMEMBER	ETSI
Comverse Network Systems (Comverse Network Systems (CNS) Europe B.V.)	3GPPMEMBER	ETSI
Conexant Systems, Inc.	3GPPMEMBER	T1
DACOM Corporation	3GPPMEMBER	TTA
Dansk MobilTelefon I/S	3GPPMEMBER	ETSI
DDI Corporation Japan	3GPPMEMBER	ARIB
Deutsche Telekom MobilNet (Deutsche Telekom MobilNet GmbH)	3GPPMEMBER	ETSI
diAx Telecommunications	3GPPMEMBER	ETSI
DoCoMo Europe S.A.	3GPPMEMBER	ETSI
DTI (DTI - Department of Trade and Industry)	3GPPMEMBER	ETSI
E-PLUS Mobilfunk	3GPPMEMBER	ETSI
ETRI (Electronics & Telecommunications Research Institute)	3GPPMEMBER	TTA
ERA-GSM POLSKA TELEFONIA	3GPPMEMBER	ETSI
Ericsson Inc. (Ericsson Incorporated)	3GPPMEMBER	T1
ERICSSON KOREA	3GPPMEMBER	TTA
ERICSSON L.M. (ERICSSON L.M. Telefonaktiebolaget)	3GPPMEMBER	ETSI
FEEI (FEEI - Fachverband der Elektro- und Elektronikindustrie Bereich Technik)	3GPPMEMBER	ETSI
Finnet Group	3GPPMEMBER	ETSI
France Telecom (France Telecom R&D)	3GPPMEMBER	ETSI
FUJITSU Europe Telecom R & D C (FUJITSU Europe Telecom R & D Centre)	3GPPMEMBER	ETSI
Fujitsu Limited	3GPPMEMBER	ARIB
Fujitsu Limited	3GPPMEMBER	TTC
GIESECKE & DEVRIENT GmbH	3GPPMEMBER	ETSI
GOLDEN BRIDGE TECHNOLOGY INC.	3GPPMEMBER	ETSI
Golden Bridge Technology Inc.	3GPPMEMBER	T1
HEWLETT-PACKARD France	3GPPMEMBER	ETSI
HuaWei Technologies Co., Ltd	3GPPMEMBER	CWTS
HYUNDAI ELECTRONICS INDUSTRIES	3GPPMEMBER	TTA

Organisation Name	Organisation Status	Partner
ICP (ICP - Instituto das Comunicacoes de Portugal)	3GPPMEMBER	ETSI
IICS GmbH (Integrated Information & Communication Systems GmbH)	3GPPMEMBER	ETSI
InterWAVE Com. Intern. B.V. (InterWAVE Communications International B.V.)	3GPPMEMBER	ETSI
ITALTEL S.p.A.	3GPPMEMBER	ETSI
Japan Telecom Co. Ltd	3GPPMEMBER	ARIB
KOREA TELECOM CORP.	3GPPMEMBER	TTA
KPN (KPN - Koninklijke PTT Nederland NV)	3GPPMEMBER	ETSI
LGIC (LG Information & Communications)	3GPPMEMBER	TTA
LG Technology Center Europe	3GPPMEMBER	ETSI
Lucent Technologies BCS & ME (Lucent Technologies Business Communications Systems & Micro Electronics GmbH)	3GPPMEMBER	ETSI
Lucent Technologies EMEA B.V.	3GPPMEMBER	ETSI
Lucent Technologies Japan Ltd.	3GPPMEMBER	TTC
Lucent Technologies (Lucent Technologies Network System GmbH)	3GPPMEMBER	ETSI
Lucent Technologies N. S. UK (Lucent Technologies Network Systems UK)	3GPPMEMBER	ETSI
MANNESMANN Mobilfunk GmbH	3GPPMEMBER	ETSI
MARCONI COMMUNICATIONS	3GPPMEMBER	ETSI
MATAV (MATAV Hungarian Telecommunications Company Limited)	3GPPMEMBER	ETSI
Matsushita Communication (Matsushita Communication Industrial Co, Ltd)	3GPPMEMBER	ARIB
MAX.MOBIL. TELEKOM. (MAX.MOBIL. TELEKOMMUNIKATION SERVICE GMBH)	3GPPMEMBER	ETSI
MICROSOFT EUROPE SARL	3GPPMEMBER	ETSI
MINISTERO DELLE COMUNICAZIONI (MINISTERO DELLE COMUNICAZIONI - ISTITUTO SUPERIORE C.T.I.)	3GPPMEMBER	ETSI
Mitsubishi Electric Co.	3GPPMEMBER	ARIB
MITSUBISHI Electric (MITSUBISHI Electric France)	3GPPMEMBER	ETSI
MOTOROLA A/S	3GPPMEMBER	ETSI
Motorola Inc.	3GPPMEMBER	T1
MOTOROLA Ltd	3GPPMEMBER	ETSI
MOTOROLA S.A.	3GPPMEMBER	ETSI
NTL (National Transcommunications Ltd)	3GPPMEMBER	ETSI
NATIONAL RADIOCOMMS. AGENCY (NATIONAL RADIOCOMMUNICATIONS AGENCY)	3GPPMEMBER	ETSI
NEC Corporation	3GPPMEMBER	ARIB
NEC Corporation	3GPPMEMBER	TTC
NEC Europe Ltd	3GPPMEMBER	ETSI
Nippon Ericsson (Nippon Ericsson K.K.)	3GPPMEMBER	ARIB
NTT (Nippon Telegraph and Telephone Corporation (NTT))	3GPPMEMBER	TTC
NOKIA Corporation	3GPPMEMBER	ETSI
Nokia Telecommunications Inc.	3GPPMEMBER	T1
NOKIA UK Ltd	3GPPMEMBER	ETSI
NORTEL NETWORKS (EUROPE)	3GPPMEMBER	ETSI
Northstream AB	3GPPMEMBER	ETSI
Norwegian Post and Telecom. A. (Norwegian Post and Telecommunications Authority)	3GPPMEMBER	ETSI
NTT DoCoMo (NTT MOBILE COMMUNICATIONS NETWORK INC.)	3GPPMEMBER	ARIB
NTT DoCoMo (NTT Mobile Communications Network, Inc. (NTT DoCoMo))	3GPPMEMBER	TTC
OKI Electric Europe GmbH	3GPPMEMBER	ETSI
OMNITEL (OMNITEL Pronto Italia SpA)	3GPPMEMBER	ETSI
One 2 One Personal Comm. Ltd (One 2 One Personal Communications Limited)	3GPPMEMBER	ETSI
ORANGE PCS LTD	3GPPMEMBER	ETSI
Pacific Bell Wireless	3GPPMEMBER	T1
PANASONIC Deutschland GmbH (PANASONIC Deutschland GmbH c/o Matsushita European Technology Center (E-TEC))	3GPPMEMBER	ETSI
PHILIPS Consumer Communication	3GPPMEMBER	ETSI
PHILIPS Consumer Electronics	3GPPMEMBER	ETSI
PTK CENTERTEL (Polska Telefonia Komorkowa CENTERTEL Sp.z.o.o.)	3GPPMEMBER	ETSI
Portugal Telecom SA (Portugal Telecom SGPS, SA)	3GPPMEMBER	ETSI
QUALCOMM EUROPE S.A.R.L.	3GPPMEMBER	ETSI
RadioScape Limited	3GPPMEMBER	ETSI
RITT	3GPPMEMBER	CWTS
SAGEM Group (SAGEM Group)	3GPPMEMBER	ETSI
Samsung Electronics Co., Ltd (Samsung Electronics Ind. Co., Ltd.)	3GPPMEMBER	TTA
SAMSUNG Electronics (SAMSUNG Electronics Research Institute)	3GPPMEMBER	ETSI
SBC Communications Inc.	3GPPMEMBER	T1
SCHLUMBERGER (SCHLUMBERGER Automatic Test Equipment)	3GPPMEMBER	ETSI
Schlumberger Industries	3GPPMEMBER	ETSI
Secrétariat d' Etat Industrie (Secrétariat d'Etat à l'Industrie)	3GPPMEMBER	ETSI
SHARP Corporation	3GPPMEMBER	ARIB
SHARP Manufacturing France S.A (SHARP Manufacturing France SA)	3GPPMEMBER	ETSI
SIEMENS AG	3GPPMEMBER	ETSI
SIEMENS ATEA NV	3GPPMEMBER	ETSI
Siemens ICN S.p.A. (Siemens Information and Communication Networks SpA)	3GPPMEMBER	ETSI

Organisation Name	Organisation Status	Partner
Siemens K.K (Siemens K.K.)	3GPPMEMBER	ARIB
Siemens K.K.	3GPPMEMBER	TTC
SK TELECOM	3GPPMEMBER	TTA
SONERA Corporation	3GPPMEMBER	ETSI
SONY Corporation	3GPPMEMBER	ARIB
STMicroelectronics (STMicroelectronics S.A.)	3GPPMEMBER	ETSI
SWISSCOM	3GPPMEMBER	ETSI
Symmetry Communications Syst. (Symmetry Communications Systems)	3GPPMEMBER	ETSI
SYNOPSYS GmbH	3GPPMEMBER	ETSI
TEKTRONIX GmbH & Co KG	3GPPMEMBER	ETSI
Telcordia Technologies Inc.	3GPPMEMBER	T1
TELECOM ITALIA S.p.A.	3GPPMEMBER	ETSI
Telecom Modus Ltd. (Telecom Modus Limited)	3GPPMEMBER	ETSI
TELEFONICA de España S.A. (TELEFONICA DE ESPAÑA SA)	3GPPMEMBER	ETSI
Telekom Austria AG (Telekom Austria Aktiengesellschaft)	3GPPMEMBER	ETSI
TELELOGIC AB	3GPPMEMBER	ETSI
TELENOR AS	3GPPMEMBER	ETSI
TELIA AB	3GPPMEMBER	ETSI
TELIT Mobile Terminals S.p.A.	3GPPMEMBER	ETSI
Telrad Networks Ltd. (Telrad Network Ltd.)	3GPPMEMBER	ETSI
Unisys Deutschland GmbH	3GPPMEMBER	ETSI
ULB-STC (Université Libre de Bruxelles - Service Télématique et Communication)	3GPPMEMBER	ETSI
VIP-NET GSM d.o.o	3GPPMEMBER	ETSI
VODAFONE Group Plc	3GPPMEMBER	ETSI
VoiceStream Wireless Corp. (VoiceStream Wireless Corporation)	3GPPMEMBER	T1
WAVECOM (WAVECOM S.A.)	3GPPMEMBER	ETSI
WIND TELECOMUNICAZIONI SPA	3GPPMEMBER	ETSI
Zhongxing Telecom Ltd.	3GPPMEMBER	CWTS

Total Voting Members : 147

This report shows the 3GPP Member Companies on the Voting List for **TSG SA Meeting #10**
Inclusion on this list is obtained by attending a meeting of **TSG SA**
A company is removed from the list if it is not represented at any of the 3 previous meetings of this group.

If you believe your company should be included in this list, please provide supporting information to

MCC, the 3GPP Support Team at: 3gppcontact@etsi.fr

Annex D: Status list of Specifications and Reports after TSG SA Meeting #9 ("September 2000 Release")

See also: http://www.3gpp.org/3G_Specs/3G_Specs.htm

Type	Number	Title	Ver at TSG#9	Rel	planned/ achieved V3	TSG/ WG	Editor	Comment
3GPP Specifications and reports								
TS	21.101	3rd Generation mobile system Release 1999 Specifications	3.1.0	R1999	Mar 00	SP	MEREDITH, John M	Aprvl by e-mail post TSG#6: 2.1.0 - comments: 2.2.0; TSG#7:2.3.0(SP-000037),2.4.0(SP-000104),2.5(SP-000xxx) 3.0.0 post-TSG#8:3.1.0
TS	21.102	3rd Generation mobile system Release 2000 Specifications	1.0.0	Rel-4	Dec 00	SP	MEREDITH, John M	TSG#8:1.0.0
TS	21.111	USIM and IC card requirements	3.3.0	R1999	April 99	T3	MARINGER, Günter	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	21.133	Security Threats and Requirements	3.1.0	R1999	April 99	S3	CHRISTOFFERSSON, Per	.
TR	21.801	3GPP drafting rules	4.0.0	Rel-4	Jun 00	SP	MEREDITH, John M	Formal doc created after TSG#7. (Was briefly 21.200) TSG#8:4.0.0 (1.0.1)
TR	21.810	Report on multi-mode UE issues; ongoing work and identified additional work	3.0.0	R1999	Jun 00	T2	PERSSON, Sofi	TSG#7:2.0.0 - number changed from 21.910. Not approved. 2.0.0 TSG#8:3.0.0 (2.2.0)
TR	21.900	3GPP Working methods	3.4.0	R1999	April 99	SP	MEREDITH, John M	TSG#8:3.3.0 TSG#9:3.4.0
TR	21.904	UE Capability Requirements (UCR)	3.2.0	R1999	Mar 00	T2	SOOD, Prem	TSG-T#7 is the new target for approval as part of R99. TSG#7:2.0.0(TP-000026), 3.0.0 TSG#8:3.1.0 (will not be propagated to R00) TSG#9:3.2.0
TR	21.905	3G Vocabulary	3.2.0	R1999	Mar 00	S1	ZARRI, Michele	TSG#7:(SP-000072) 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TR	21.905	3G Vocabulary	4.0.0	Rel-4	Mar 00	S1	ZARRI, Michele	TSG#7:(SP-000072) 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0
TR	21.910	Multi-mode UE issues; categories, principles and procedures	3.0.0	R1999	Jun 00	-	PERSSON, Sofi	TSG#7: 2.0.0, but not approved. Number to be changed to 21.810. TSG#8: Re-instated with changed title and contents. TSG#8:3.0.0 (2.1.0)
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	3.0.0	R1999	Mar 00	N2	SMITH, David	Not approved N#6. TSG#8:3.0.0 (2.1.1)
TS	22.001	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	3.2.0	R1999	Mar 00	S1	KOKKOLA, Tommi	Transfer>TSG#5. TSG#7: 3.2.0
TS	22.001	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	4.0.0	Rel-4	Dec 00	S1	KOKKOLA, Tommi	Transfer>TSG#5. TSG#7: 3.2.0 TSG#9:4.0.0
TS	22.002	Circuit Bearer Services Supported by a PLMN	3.5.0	R1999	Oct 99	S1	CARPENTER, Paul	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	22.002	Circuit Bearer Services Supported by a PLMN	4.0.0	Rel-4	Dec 00	S1	CARPENTER, Paul	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:4.0.0
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	3.2.0	R1999	Jun 00	S1	KOKKOLA, Tommi	Transfer>TSG#5, CR@TSG#6. TSG#7: 3.2.0
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	4.0.0	Rel-4		S1	KOKKOLA, Tommi	TSG#7: 4.0.0
TS	22.004	General on Supplementary Services	3.2.1	R1999	Oct 99	S1	CARPENTER, Paul	CR@TSG#6. TSG#7: 3.2.0
TS	22.011	Service accessibility	3.3.0	R1999	Oct 99	S1	GALLAIRE, Jean Paul	TSG#7: 3.2.0 TSG#9:3.3.0
TS	22.011	Service accessibility	4.2.0	Rel-4	Dec 00	S1	GALLAIRE, Jean Paul	TSG#7: 4.0.0 TSG#8:4.1.0 TSG#9:4.2.0
TS	22.016	International Mobile Equipment Identities (IMEI)	3.2.0	R1999	Oct 99	S1	KOKKOLA, Tommi	TSG#8:3.2.0
TS	22.022	Personalisation of GSM ME Mobile functionality specification - Stage 1	3.2.0	R1999	Oct 99	S3	NGUYEN NGOC, Sebastien	. TSG#9:3.2.0
TS	22.024	Description of Charge Advice Information (CAI)	3.0.1	R1999	Oct 99	S1	DWYER, Paul	.
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	3.4.0	R1999	Oct 99	S1	TOIVANEN, Annukka	TSG#7: 3.3.0 TSG#9:3.4.0
TS	22.034	High Speed Circuit Switched Data (HSCSD) - Stage 1	3.2.2	R1999	Oct 99	S1	KOKKOLA, Tommi	TSG#7: 3.2.0

TS	22.038	SIM application toolkit (SAT); Stage 1	3.2.0	R1999	Oct 99	S1	ROBINSON, Bill	TSG#7: 3.1.0 TSG#8:3.2.0
TS	22.038	SIM application toolkit (SAT); Stage 1	5.0.0	Rel-5	Oct 99	S1	ROBINSON, Bill	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:5.0.0
TS	22.041	Operator Determined Call Barring	3.1.0	R1999	Oct 99	S1	DWYER, Paul	.
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	3.0.1	R1999	Oct 99	S1	DAHLKVIST, Mikael	CR to 3.0.1 not aprvd.
TS	22.043	Support of Localised Service Area (SoLSA) - Stage 1	3.1.0	R1999	Oct 99	S1	KOKKOLA, Tommi	TSG#8:3.1.0
TS	22.053	Tandem Free Operation of speech codecs; Stage 1 service description	0.1.1	Rel-4	tbd	S4	..,	.
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	3.0.1	R1999	Oct 99	S1	CATALDO, Mark	.
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	4.0.0	Rel-4	Mar 01	S1	CATALDO, Mark	. TSG#9:4.0.0
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	5.0.0	Rel-5	Dec 01	S1	CATALDO, Mark	. TSG#9:5.0.0
TS	22.060	General Packet Radio Service (GPRS); Stage 1	3.5.0	R1999	Oct 99	S1	CARPENTER, Paul	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	22.060	General Packet Radio Service (GPRS); Stage 1	4.1.0	Rel-4	Oct 99	S1	CARPENTER, Paul	TSG#7: 4.0.0 TSG#8:4.1.0
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	3.2.0	R1999	Oct 99	S1	..,	TSG#7:(not 3.2.0!) 3.1.0 TSG#8:3.2.0
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1	3.0.1	R1999	Oct 99	S1	SWETINA, Joerg	.
TS	22.071	Location Services (LCS); Stage 1	3.3.0	R1999	Oct 99	S1	WOHLERT, Randolph	. TSG#9:3.3.0
TS	22.071	Location Services (LCS); Stage 1	4.1.0	Rel-4	Dec 99	S1	WOHLERT, Randolph	based on 3.2.0 TSG#8:4.0.0 TSG#9:4.1.0
TS	22.072	Call Deflection (CD); Stage 1	3.0.1	R1999	Oct 99	S1	RAUCH, Horst	.
TS	22.078	CAMEL; Stage 1	3.5.0	R1999	Oct 99	S1	GRECH, Michel	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	22.078	CAMEL; Stage 1	4.0.0	Rel-4	Dec 00	S1	GRECH, Michel	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:4.0.0
TS	22.078	CAMEL; Stage 1	5.0.0	Rel-5	Dec 00	S1	GRECH, Michel	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:5.0.0
TS	22.079	Support of Optimal Routing; Stage 1	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.081	Line Identification Supplementary Services; Stage 1	3.2.0	R1999	Oct 99	S1	AHNBERG, Tomas	TSG#8:3.2.0
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	3.0.1	R1999	Oct 99	S1	GALLAIRE, Jean Paul	.
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	3.1.0	R1999	Oct 99	S1	..,	.
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	3.1.0	R1999	Oct 99	S1	DWYER, Paul	#5: 3.1.0
TS	22.087	User-to-user signalling (UUS); Stage 1	3.1.0	R1999	Oct 99	S1	BRADEN, Christian	#5: 3.0.1, but should have been 3.1.0 to include a CR wrongly attributed to 22.086.
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	3.1.0	R1999	Oct 99	S1	KOKKOLA, Tommi	TSG#7: 3.1.0
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	1.0.0	R1999	Oct 99	S1	..,	. TSG#9:1.0.0
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.094	Follow Me Stage 1	3.1.0	R1999	Dec 99	S1	..,	Transfer>TSG#6
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)	3.0.1	R1999	Oct 99	S1	..,	.
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	3.2.0	R1999	Oct 99	S1	DWYER, Paul	. TSG#9:3.2.0
TS	22.100	UMTS Phase 1	3.6.0	R1999	April 99	S1	GALLAIRE, Jean Paul	CR@TSG#6; 3.7.0 awaiting attention from MCC expert; who later says 3.5.0 is the good version. TSG#7: 3.6.0
TS	22.101	UMTS Service principles	3.b.0	R1999	April 99	S1	DWYER, Paul	TSG#7: 3.9.0 TSG#8:3.10.0 TSG#9:3.b.0
TS	22.101	UMTS Service principles	4.1.0	Rel-4	Dec 00	S1	DWYER, Paul	based on 3.9.0 TSG#8:4.0.0 TSG#9:4.1.0
TS	22.101	UMTS Service principles	5.0.0	Rel-5	Dec 01	S1	DWYER, Paul	based on 3.9.0 TSG#8:4.0.0 TSG#9:5.1.0
TS	22.105	Services & Service capabilities	3.9.0	R1999	April 99	S1	ASHWELL, Wayne	TSG#7: 3.8.0 TSG#8:3.9.0
TS	22.105	Services & Service capabilities	4.0.0	Rel-4	Dec 00	S1	ASHWELL, Wayne	TSG#7: 3.8.0 TSG#8:3.9.0 TSG#9:4.0.0

TS	22.115	Service Aspects Charging and billing	3.3.0	R1999	April 99	S1	MONTEGROSSO, Emanuele	TSG#7: 3.3.0
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	3.3.0	R1999	Jun 99	S1	OGUNBEKUN, Jumoke	TSG#7: 3.2.0 TSG#8:3.3.0
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	4.0.0	Rel-4	Jun 99	S1	OGUNBEKUN, Jumoke	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:4.0.0
TS	22.127	Service Requirement for the Open Services Access (OSA) - stage 1	1.0.0	Rel-4	Dec 00	S1	SWETINA, Joerg	
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	3.4.0	R1999	April 99	S1	SAMPSON, Nick	TSG#8:3.3.0 TSG#9:3.4.0
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	4.0.0	Rel-4	Mar 01	S1	SAMPSON, Nick	TSG#8:3.3.0 TSG#9:4.0.0
TS	22.135	Multicall Stage 1	3.4.0	R1999	Dec 99	S1	KOKKOLA, Tommi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	22.140	Multimedia Messaging Service Stage 1	3.1.0	R1999	Dec 99	S1	LAUMEN, Josef	TSG#8:3.1.0
TS	22.140	Multimedia Messaging Service Stage 1	4.0.1	Rel-4	Dec 99	S1	LAUMEN, Josef	based on 3.0.0 TSG#8:4.0.0
TS	22.226	Global text telephony; stage 1: Service description	1.0.0	Rel-4	Dec 00	S1	HELLSTROM, Gunnar	WI approved TSG#7 TSG#9:1.0.0
TS	22.228	IP multimedia subsystem; stage 1	1.0.0	Rel-4		S1	CATALDO, Mark	
TR	22.945	Study of provision of fax service in GSM and UMTS	3.0.0	R1999	Oct 99	T2	COLBAN, Erik	.
TR	22.971	Automatic establishment of roaming relationships	3.1.1	R1999	April 99	S1	MONTEGROSSO, Emanuele	.
TR	22.975	Advanced addressing	3.1.0	R1999	April 99	S1	KLEIER, Stephan	.
TR	22.976	Study on PS domain services and capabilities	2.0.0	Rel-4	Dec 00	S1	CATALDO, Mark	TSG#7:(SP-000073) 1.0.0 TSG#8:2.0.0
TS	23.002	Network Architecture	3.3.0	R1999	Oct 99	S2	SULTAN, Alain	Open issues to be finalized by TSG#7. TSG#7: 3.3.0
TS	23.002	Network Architecture	5.0.0	Rel-5	Dec 01	S2	SULTAN, Alain	Open issues to be finalized by TSG#7. TSG#7: 3.3.0 TSG#9:5.0.0
TS	23.003	Numbering, Addressing and Identification	3.6.0	R1999	April 99	N4	..,	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.007	Restoration procedures	3.4.0	R1999	April 99	N4	..,	TSG#7: 3.3.0 TSG#8:3.4.0
TS	23.008	Organisation of subscriber data	3.5.0	R1999	April 99	N4	..,	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	23.009	Handover procedures	3.4.0	R1999	April 99	N1	FARHOUMAND, Rouzbeh	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	23.011	Technical Realization of Supplementary Services - General Aspects	3.1.0	R1999	April 99	N4	..,	. TSG#9:3.1.0
TS	23.012	Location management procedures	3.3.0	R1999	April 99	N4	..,	TSG#7: 3.2.0 TSG#8:3.3.0
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	3.1.0	R1999	April 99	N1	..,	.
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	3.1.0	R1999	April 99	N4	PARK, Ian David Chalmers	.
TS	23.016	Subscriber data management - Stage 2	3.6.0	R1999	April 99	N4	..,	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.018	Basic Call Handling - Technical realisation	3.6.0	R1999	April 99	N4	PARK, Ian David Chalmers	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.032	Universal Geographical Area Description (GAD)	3.1.0	R1999	April 99	S2	..,	TSG#7: 3.1.0
TS	23.034	High Speed Circuit Switched Data (HSCSD) - Stage 2	3.2.0	R1999	April 99	N1	MUHONEN, Ahti	TSG#7: 3.2.0
TS	23.038	Alphabets & Language	3.3.0	R1999	Jun 99	T2	HARRIS, Ian	additional CR for R99 on SMS enhanced message content expected at TSG-T#7. No, evidently not.
TS	23.038	Alphabets & Language	4.1.0	Rel-4	Jun 99	T2	HARRIS, Ian	based on 3.3.0 TSG#8:4.0.0 TSG#9:4.1.0
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.2.0	R1999	Jun 99	T2	HARRIS, Ian	. TSG#9:3.2.0
TS	23.040	Technical realisation of Short Message Service	3.5.0	R1999	Jun 99	T2	HARRIS, Ian	additional CR for R99 on SMS enhanced message content expected at TSG-T#7: TSG#7: 3.4.0 TSG#8:3.5.0
TS	23.040	Technical realisation of Short Message Service	4.1.0	Rel-4	Jun 99	T2	HARRIS, Ian	based on 3.4.0 TSG#8:4.0.0 TSG#9:4.1.0

TS	23.041	Technical Realization of Cell Broadcast Service	3.3.0	R1999	Oct 99	T2	..,	additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#7: 3.2.0 TSG#9:3.3.0
TS	23.042	Compression algorithm for SMS	3.1.0	R1999	Jun 99	T2	HARRIS, Ian	.
TS	23.054	Shared Interworking Functions - Stage 2	3.0.0	R1999	April 99	N3	ROSTÖ, Tommy	.
TS	23.057	Mobile Station Application Execution Environment (MExE)	3.3.0	R1999	Dec 99	T2	CATALDO, Mark	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	3.5.0	R1999	Apr 99	S2	DELECKI, Andrew	Open issues to be finalized by TSG#7 (expect 3.2.1 2000-01-12). TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	3.3.0	R1999	Oct 99	N4	LOPEZ SORIA, Luis	TSG#7: 3.2.0 TSG#8:3.3.0
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	3.1.0	R1999	April 99	N4	..,	TSG#7: 3.1.0
TS	23.072	Call Deflection Supplementary Service - Stage 2	3.3.0	R1999	April 99	N4	..,	
TS	23.073	Support of Localised Service Area (SoLSA) - Stage 2	3.0.1	R1999	Oct 99	N4	..,	.
TS	23.078	CAMEL Stage 2	3.6.0	R1999	April 99	N2	HOMANN, Christian	TSG#7:Aprvl CRs 56r3 & 18 by e-mail by 31-mar-00. 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.079	Support of Optimal Routeing - Phase 1 - Stage 2	3.6.0	R1999	April 99	N4	PARK, Ian David Chalmers	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.081	Line Identification Supplementary Services - Stage 2	3.1.0	R1999	April 99	N4	..,	TSG#8:3.1.0
TS	23.082	Call Forwarding (CF) Supplementary Services - Stage 2	3.4.0	R1999	April 99	N4	..,	TSG#7: 3.2.0 TSG#8:3.0 TSG#9:3.4.0
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	3.2.0	R1999	April 99	N4	..,	. TSG#9:3.2.0
TS	23.084	MultiParty (MPTY) Supplementary Service - Stage 2	3.2.0	R1999	April 99	N4	..,	. TSG#9:3.2.0
TS	23.085	Closed User Group (CUG) Supplementary Service - Stage 2	3.1.0	R1999	April 99	N4	..,	. TSG#9:3.1.0
TS	23.086	Advice of Charge (AoC) Supplementary Service - Stage 2	3.1.0	R1999	April 99	N4	..,	. TSG#9:3.1.0
TS	23.087	User-to-User Signalling (UUS) - Stage 2	3.1.0	R1999	April 99	N4	..,	. TSG#9:3.1.0
TS	23.088	Call Barring (CB) Supplementary Service - Stage 2	3.2.0	R1999	April 99	N4	..,	TSG#7: 3.2.0 (not approved) TSG#9:3.2.0
TS	23.090	Unstructured Supplementary Service Data (USSD) - Stage 2	3.2.0	R1999	April 99	N4	..,	. TSG#9:3.2.0
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	3.2.0	R1999	April 99	N4	..,	. TSG#9:3.2.0
TS	23.093	Call Completion to Busy Subscriber (CCBS) - Stage 2	3.2.0	R1999	April 99	N4	..,	. TSG#9:3.2.0
TS	23.094	Follow Me Stage 2	3.2.0	R1999	Dec 99	N4	..,	Transfer>TSG#6. TSG#7: 3.1.0 TSG#9:3.2.0
TS	23.096	Name Identification Supplementary Service - Stage 2	3.0.1	R1999	April 99	N4	..,	.
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	3.1.1	R1999	Oct 99	N4	..,	TSG#7: 3.1.1
TS	23.101	General UMTS Architecture	3.0.1	R1999	Jun 99	S2	OLSSON, Magnus	.
TS	23.107	Quality of Service, Concept and Architecture	3.4.0	R1999	Oct 99	S2	GREIS, Marc	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	3.2.0	R1999	Jun 99	N1	SALKINTZIS, Apostolis	TSG#7: 3.2.0
TS	23.110	UMTS Access Stratum Services and Functions	3.4.0	R1999	Mar 00	S2	LOPEZ-TORRES, Oscar	TSG#7: 3.4.0
TS	23.116	Super Charger - Stage 2	3.0.0	R1999	Mar 00	N4	ALLEN, Nicholas	TSG#7:2.1.0, 3.0.0
TS	23.119	Gateway Location Register (GLR) - Stage2	3.0.0	R1999	Mar 00	N4	SAWADA, Masahiro	Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99. TSG#7:2.0.0 (NP-000108) 3.0.0
TS	23.121	Architecture Requirements for release 99	3.4.0	R1999	Jun 99	S2	DANIEL, Elizabeth	TSG#7: 3.3.0 TSG#9:3.4.0
TS	23.121	Architecture Requirements for release 99	5.0.0	Rel-5	Dec 01	S2	DANIEL, Elizabeth	TSG#7: 3.3.0 TSG#9:5.0.0
TS	23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	3.4.0	R1999	April 99	N1	HIETALAHTI, Hannu	Created at TSG#6, CR@TSG#6, Was briefly 23.022. But regenerated from 03.22 in June99. Expect 3.1.0 to correct erroneous incorporation of a CR. Expect 3.1.1 to undo erroneously incorporated CR. TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	23.127	Virtual Home Environment - Stage 2	3.2.0	R1999	Mar 00	S2	GOURRAUD, Christophe	TSG#7:2.0.0 (SP-000089) 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0

TS	23.127	Virtual Home Environment - Stage 2	4.0.0	Rel-4	Dec 00	S2	GOURRAUD, Christophe	TSG#7:2.0.0 (SP-000089) 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0
TS	23.135	Multicall - Stage 2	3.2.0	R1999	Mar 00	N4	MITAMURA, Kazuo	TSG#7:1.1.0->3.0.0 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	23.140	Multimedia Messaging Service (MMS)	3.0.1	R1999	Mar 00	T2	LAUMEN, Josef	TSG#7: 2.0.0(TP-000028) 3.0.0
TS	23.140	Multimedia Messaging Service (MMS)	4.0.0	Rel-4	Dec 00	T2	LAUMEN, Josef	TSG#7: 2.0.0(TP-000028) 3.0.0 TSG#9:4.0.0
TS	23.146	Technical realisation of facsimile Group 3 service - non-transparent	4.1.0	Rel-4	Mar 00	N3	HAGIWARA, Junichiro	New @ TSG#6, Circuit switched type of Real time Non transparent FAX specification. TSG#7:1.1.0 "but not stable enough to be made available"! N3#10: 2.0.0 TSG#8:4.0.0 (2.0.0) TSG#9:4.1.0
TS	23.153	Out of Band Transcoder Control - Stage 2	2.0.0	R1999	Mar 00	N4	..,	TSG#7:2.0.0 [argument in SA over r99 or r00] concl: not approved.
TS	23.171	Functional stage 2 description of location services in UMTS	3.1.0	R1999	Mar 00	S2	KÅLL, Jan	TSG#7:2.0.0 (SP-000090), 3.0.0 TSG#8:3.1.0
TS	23.207	End to end quality of service concept and architecture	0.0.0	<?>		S2	OYAMA, Johnson	
TS	23.226	Global text telephony; stage 2: Architecture	0.0.0	Rel-4	Dec 00	N4	HELLSTROM, Gunnar	WI approved TSG#7
TS	23.227	Terminal local model	0.1.0	Rel-4		T2	GUSTAVSSON, Carl	.
TS	23.228	IP multimedia subsystem; stage 2	1.0.0	Rel-4	Dec 00	S2	DANIEL, Elizabeth	
TS	23.271	Functional stage 2 description of location services	1.0.0	Rel-4	Dec 00	S2	KÅLL, Jan	post-TSG#8: Recombined 2G and 3G spec. TSG#9:1.0.0
TR	23.814	Separating RR and MM specific parts of the MS Classmark	3.1.0	R1999	Dec 99	N1	YOKOTA, Fumihiko	TSG #5: 3.0.0: accidentally 3.1.0, but no tech change.
TR	23.821	Architecture Principles for Relase 2000	1.0.1	Rel-4	Jun 00	S2	LIND, Christer	TSG#8:1.0.0
TR	23.873	Feasibility study fro transport and control separation in the PS CN domain	0.2.0	Rel-4	Dec 00	S2	IBANEZ, Juan-Antonio	
TR	23.874	Feasibility study of architecture for network requested PDP context activation with User-ID	1.0.0	Rel-4	Dec 00	S2	KITADA, Yoshinori	
TR	23.908	Technical report on Pre-Paging	3.0.1	R1999	Jun 99	N4	..,	.
TR	23.909	Technical report on the Gateway Location Register	3.0.1	R1999	Jun 99	N4	..,	.
TR	23.910	Circuit Switched Data Bearer Services	3.2.0	R1999	Mar 00	N3	BRAUN, Achim	TSG#6: 1.0.0 TSG#7:2.0.0->3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TR	23.910	Circuit Switched Data Bearer Services	4.0.0	Rel-4	Dec 00	N3	BRAUN, Achim	TSG#6: 1.0.0 TSG#7:2.0.0->3.0.0 TSG#8:3.1.0 TSG#9:4.0.0
TR	23.911	Technical report on Out-of-band transcoder control	3.0.1	R1999	Oct 99	N4	..,	.
TR	23.912	Technical report on Super-Charger	3.0.2	R1999	Oct 99	N4	SHARP, Iain	.
TR	23.922	Architecture for an All IP network	1.0.0	R1999		S2	..,	Was suspected to be v3.0.0, but evidently not so.
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	3.0.0	R1999	Dec 99	S2	HUBBARD, Elisabeth	.
TR	23.925	UMTS Core network based ATM transport	0.2.0	R1999	Mar 00	S2	ROUZ, Adel	.
TR	23.930	Iu Principles	3.0.0	R1999	Jun 99	S2	..,	.
TR	23.972	Circuit Switched Multimedia Telephony	3.0.0	R1999	Mar 00	N1	KAUHANEN, Timo	TSG#7:1.0.0 (NP-000103), 3.0.0
TS	24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	3.0.0	R1999	Mar 00	N1	SIMMONS, Paul	TSG#7: 3.0.0
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	3.5.0	R1999	Oct 99	N1	HOWELL, Andrew	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	3.5.0	R1999	April 99	N1	HOWELL, Andrew	CR@TSG#6, editorial mod later. TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	4.0.0	Rel-4		N1	HOWELL, Andrew	
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	3.1.0	R1999	April 99	N4	..,	TSG#8:3.1.0
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	3.4.0	R1999	Oct 99	N1	NOBUYUKI, Uda	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	3.0.0	R1999	Oct 99	G2	..,	.

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	3.4.0	R1999	April 99	N3	KLEHN, Norbert	TSG#8:3.3.0 TSG#9:3.4.0
TS	24.030	Location Services LCS Stage 3 SS (MO-LR)	3.1.0	R1999	Jun 00	N4	DOSHI, Sonia	TSG#7:Decision to create. TSG#8:3.1.0
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.072	Call Deflection Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	3.4.0	R1999	April 99	N4	..,	T1P1 CR @TSG#6. TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	24.081	Line Identification Supplementary Service - Stage 3	3.1.0	R1999	April 99	N4	..,	TSG#8:3.1.0
TS	24.082	Call Forwarding Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.084	MultiParty (MPTY) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.085	Closed User Group (CUG) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.086	Advice of Charge (AoC) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.087	User-to-User Signalling (UUS) - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.088	Call Barring (CB) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.090	Unstructured Supplementary Service Data (USSD) - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.093	Call Completion to Busy Subscriber (CCBS) - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.096	Name Identification Supplementary Service - Stage 3	3.0.0	R1999	April 99	N4	..,	.
TS	24.135	Multicall Stage 3	3.1.0	R1999	Mar 00	N4	MITAMURA, Kazuo	TSG#7:1.0.0->3.0.0 TSG#8:3.1.0
TS	25.101	UE Radio transmission and reception (FDD)	3.4.0	R1999	Oct 99	R4	FERNANDES, Edgar	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.102	UE Radio transmission and reception (TDD)	3.4.0	R1999	Oct 99	R4	KOTTKAMP, Meik	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	3.4.0	R1999	Oct 99	R4	SKÖLD, Johan	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	3.4.0	R1999	Oct 99	R4	KOTTKAMP, Meik	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.106	UTRA Repeater; Radio transmission and reception	1.0.0	Rel-4		R4	NILSSON, Martin	. TSG#9:1.0.0
TS	25.113	Base station EMC	3.3.0	R1999	Dec 99	R4	BARNES, David	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.123	Requirements for support of radio resource management (TDD)	3.3.0	R1999		R4	FRANCESCHI, Olle	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.133	Requirements for support of radio resource management (FDD)	3.3.0	R1999	Dec 99	R4	FRANCESCHI, Olle	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.141	Base station conformance testing (FDD)	3.3.0	R1999	Dec 99	R4	NAKAMURA, Takaharu	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.142	Base station conformance testing (TDD)	3.3.0	R1999	Dec 99	R4	MEYER, Juergen	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.143	UTRA Repeater; Conformance testing	0.0.2	Rel-4		R4	KUMMETZ, Thomas	Was to have been 25.107. But never was. TSG#9:0.0.2
TS	25.201	Physical layer -General Description	3.1.0	R1999	Oct 99	R1	TOSKALA, Antti	TSG#5: 3.0.0; edito post#6: 3.0.1. TSG#7: 3.0.2 TSG#8:3.1.0
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	3.4.0	R1999	Oct 99	R1	WILDE, Andreas	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.212	Multiplexing and channel coding (FDD)	3.4.0	R1999	Oct 99	R1	TANAKA, Yoshinori	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.213	Spreading and modulation (FDD)	3.3.0	R1999	Oct 99	R1	CHAMBERS, David	TSG#7: 3.2.0 TSG#8:3.3.0
TS	25.214	Physical layer procedures (FDD)	3.4.0	R1999	Oct 99	R1	NAKAMURA, Takaharu	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.215	Physical layer; Measurements (FDD)	3.4.0	R1999	Oct 99	R1	..,	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	3.4.0	R1999	Oct 99	R1	HIRAMATSU, Katsuhiko	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.222	Multiplexing and channel coding (TDD)	3.4.0	R1999	Oct 99	R1	KAHTAVA, Jussi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0

TS	25.223	Spreading and modulation (TDD)	3.4.0	R1999	Oct 99	R1	ITO, Kenji	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.224	Pphysical layer procedures (TDD)	3.4.0	R1999	Oct 99	R1	OESTREICH, Stefan	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.225	Physical layer; Measurements (TDD)	3.4.0	R1999	Oct 99	R1	..,	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.301	Radio Interface Protocol Architecture	3.6.0	R1999	April 99	R2	GRANZOW, Wolfgang	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	25.302	Services provided by the physical layer	3.6.0	R1999	Oct 99	R2	MIHAILESCU, Claudiu	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	25.303	UE functions and inter-layer procedures in connected mode	3.5.0	R1999	Jun 99	R2	RINNE, Mikko J	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	3.4.0	R1999	Oct 99	R2	MAHKONEN, Marko	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.305	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	3.3.0	R1999	Mar 00	R2	MIHAILESCU, Claudiu	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.321	Medium Access Control (MAC) Protocol Specification	3.5.0	R1999	Jun 99	R2	SITTE, Armin	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	25.322	Radio Link Control (RLC) Protocol Specification	3.4.0	R1999	Oct 99	R2	DUMAZY, Jean	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	3.3.0	R1999	Dec 99	R2	HANS, Martin	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.324	Radio Interface for Broadcast/Multicast Services	3.2.0	R1999	Dec 99	R2	KRISCHAN, Peter	TSG#7: 3.1.0 TSG#9:3.2.0
TS	25.331	Radio Resource Control (RRC) Protocol Specification	3.4.1	R1999	Oct 99	R2	KUCHIBHOTLA, Ravi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.401	UTRAN Overall Description	3.4.0	R1999	Oct 99	R3	CALMEL, Jean-Marie	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.402	Synchronisation in UTRAN Stage 2	3.3.0	R1999	Dec 99	R3	PIOLINI, Flavio	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	3.2.0	R1999	Oct 99	R3	TOWNEND, Richard	TSG#7: 3.2.0
TS	25.411	UTRAN Iu interface Layer 1	3.2.0	R1999	Jun 99	R3	BRANDT, Achim V.	TSG#7: 3.2.0
TS	25.413	UTRAN Iu interface RANAP signalling	3.3.0	R1999	Dec 99	R3	JUSSILA, Jyrki	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.414	UTRAN Iu interface data transport & transport signalling	3.5.0	R1999	Jun 99	R3	COMSTOCK, David	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	25.415	UTRAN Iu interface user plane protocols	3.4.0	R1999	Oct 99	R3	MAUPIN, Alain	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.419	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	3.2.0	R1999	Mar 00	R3	TAYLOR, Carolyn	TSG#7: 2.0.0 (RP-000113) 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	3.2.0	R1999	Dec 99	R3	THAKARE, Kiran	TSG#7: 3.1.0 TSG#9:3.2.0
TS	25.421	UTRAN Iur interface Layer 1	3.0.0	R1999	Jun 99	R3	BRANDT, Achim V.	.
TS	25.422	UTRAN Iur interface signalling transport	3.4.1	R1999	Jun 99	R3	THAKARE, Kiran	TSG#7: 3.3.0 TSG#8:3.4.0
TS	25.423	UTRAN Iur interface RNSAP signalling	3.3.0	R1999	Dec 99	R3	RUNE, Göran	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.2.0
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	3.4.0	R1999	Jun 99	R3	DREVON, Nicolas	TSG#7:cr was to 3.0.0 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	3.2.0	R1999	Oct 99	R3	DREVON, Nicolas	TSG#7: 3.1.0 TSG#8:3.2.0
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	3.4.0	R1999	Jun 99	R3	KEKKI, Sami	TSG#7:cr was to 3.0.0 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	3.4.0	R1999	Oct 99	R3	LONGONI, Fabio	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	3.3.0	R1999	Dec 99	R3	WILSON, Mick	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.431	UTRAN Iub interface Layer 1	3.0.0	R1999	Jun 99	R3	BRANDT, Achim V.	.
TS	25.432	UTRAN Iub interface signalling transport	3.1.0	R1999	Jun 99	R3	WILSON, Mick	.
TS	25.433	UTRAN Iub interface NBAP signalling	3.3.0	R1999	Dec 99	R3	ISHIKAWA, Nobutaka	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	3.3.0	R1999	Jun 99	R3	ALDEN, Magnus	TSG#7: 3.2.0 TSG#9:3.3.0
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	3.4.0	R1999	Oct 99	R3	CALMEL, Jean-Marie	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	25.442	UTRAN Implementation Specific O&M Transport	3.1.0	R1999	Oct 99	R3	RECKER, Stephan	TSG#7: 3.1.0
TR	25.831	Study Items for future release	0.0.2	R1999	Mar 00	R3	DREVON, Nicolas	.
TR	25.832	Manifestations of Handover and SRNS relocation	3.0.0	R1999	Oct 99	R3	TOWNEND, Richard	.
TR	25.833	Physical layer items not for inclusion in Release 99	1.1.0	R1999	Mar 00	R1	..,	TSG#8:1.1.0
TR	25.834	UTRA TDD low chip rate option; Radio protocol aspects	1.0.0	Rel-4	Dec 00	R2	LIU, YanHui	

TR	25.835	Report on hybrid ARQ type II/III	1.0.0	Rel-4	Dec 00	R2	SITTE, Armin	
TR	25.836	Node B synchronization for TDD	1.0.0	Rel-4	Mar 01	R1	OESTREICH, Stefan	
TR	25.837	Hybrid ARQ Type II/III (Iub/Iur aspects)	0.1.0	Rel-4		R3	BRANDT, Achim V.	
TR	25.838	Node B Synchronisation for TDD (Iub/Iur aspects)	0.1.0	Rel-4		R3	LENHART, Johannes	
TR	25.839	Uplink Synchronous Transmission Scheme (USTS) (Iur/Iub aspects)	0.1.0	Rel-4		R3	PARK, Jin Hyo	
TR	25.840	Terminal power saving features	1.0.0	Rel-4	Dec 00	R1	CHOI, Hokyu	
TR	25.841	DSCH power control improvement in soft handover	1.0.0	Rel-4	Dec 00	R1	TOSKALA, Antti	
TR	25.842	Smart antenna	1.0.0	Rel-4	Dec 00	R1	HU, Jinling	
TR	25.843	1.28 Mcps TDD UE Radio Access Capabilities	0.0.1	Rel-4	Dec 00	R2	ZHU, Yifei	
TR	25.844	Radio Acces Bearer Support Enhancements	0.0.0	Rel-4	Dec 00	R2	KRISHNARAJAH, Ainkaran	
TR	25.845	FDD RACH and AICH performance requirements	0.0.0	Rel-4	Dec 00	R4	VIHRIÄLÄ, Jaakko	
TR	25.846	CPCH performance	0.0.0	Rel-4		R4	KWAK, Joe	
TR	25.921	Guidelines and principles for protocol description and error handling	3.1.0	R1999	Dec 99	R2	DUMAZY, Jean	TSG#7: 3.1.0
TR	25.922	Radio Resource Management Strategies	3.3.0	R1999	Dec 99	R2	MAGNANI, Nicola Pio	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TR	25.924	Opportunity Driven Multiple Access (ODMA)	1.0.0	Rel-4	Mar 00	R2	LAW, Alan	.
TR	25.925	Radio Interface for Broadcast/Multicast Services	3.2.0	R1999	Dec 99	R2	KRISCHAN, Peter	TSG#7: 3.1.0 TSG#9:3.2.0
TR	25.926	UE Radio Access capabilities definition	3.2.0	R1999	Mar 00	R2	LUNDSJÖ, Johan	TSG#7:2.0.0 (RP-000052), 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TR	25.928	1,28Mcps UTRA TDD Physical Layer	1.1.0	Rel-4	Jun 00	R1	AKSENTIJEVIC, Mirko	anticipated TSG#8; TSG#7:0.0.2 (RP-000091) 0.0.3 (RP-000158) 0.0.3 TSG#8:1.0.0 (0.2.0) TSG#9:1.1.0
TR	25.931	UTRAN Functions, examples on signalling procedures	3.1.0	R1999	Mar 00	R3	SCARRONE, Enrico	TSG#7:1.2.4 (RP-000125) 1.2.4 TSG#8:2.0.0 TSG#9:3.1.0
TR	25.932	Delay budget within the access stratum	1.1.0	Rel-4	Dec 00	R3	..,	TSG#8:1.0.0 TSG#9:1.1.0
TR	25.933	IP Transport in UTRAN	0.2.0	Rel-4	Dec 00	R3	DREVON, Nicolas	. TSG#9:0.2.0
TR	25.934	AAL2 QoS optimization	0.2.0	Rel-4	Dec 00	R3	YOSHIMURA, Takayuki	. TSG#9:0.2.0
TR	25.935	RRM optimisation	0.1.0	Rel-4	Dec 00	R3	VAN LIESHOUT, Gert-Jan	
TR	25.936	Handover for realtime services from PS-domain	0.1.0	Rel-4	Dec 00	R3	MOUSSET, Claire	
TR	25.937	UTRAN TDD low chiprate	0.1.0	Rel-4	Dec 00	R3	XU, Bing	TSG£9:0.1.1 TSG#9:0.1.1
TR	25.938	Terminal power saving features	0.1.0	Rel-4	Dec 00	R3	CHOI, Sungho	
TR	25.941	Document structure	3.1.0	R1999	Dec 99	R4	TAKAMI, Tadao	.
TR	25.942	RF system scenarios	2.3.0	<?>	Mar 00	R4	BENABDALLAH, Nadia	TSG#7:2.1.3 2.1.3 TSG#9:2.3.0 not intended for immediate allocation to a particular release, so release set to 'unknown'.
TR	25.943	Deployment aspects	2.0.0	R1999	Mar 00	R4	SKÖLD, Johan	TSG#7:2.0.0
TR	25.944	Channel coding and multiplexing examples	3.2.0	R1999	Mar 00	R1	NAKAMURA, Takaharu	TSG#7:1.0.1, 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TR	25.945	RF requirements for low chip rate TDD option	0.3.0	Rel-4	Dec 00	R4	ZHANG, Daijun	. TSG#9:0.3.0
TR	25.946	RAB Quality of Service Negotiation over Iu	0.1.0	Rel-4		R3	MOLANDER, Anders	
TR	25.950	UTRA high speed downlink packet access	0.0.0	Rel-4	Dec 00	R2	KUCHIBHOTLA, Ravi	
TR	25.951	BS classification (FDD)	0.0.1	Rel-4	Mar 01	R4	JOKINEN, Sami	
TR	25.952	BS classification (TDD)	0.0.1	Rel-4	Mar 01	R4	ZEIRA, Eldad	
TR	25.990	Vocabulary for UTRAN	3.0.0	R1999	Oct 99	R4	OKRAH, Peter	.
TS	26.071	AMR speech Codec; General description	3.0.1	R1999	Jun 99	S4	EKUDDEN, Erik	.
TS	26.073	AMR speech Codec; C-source code	3.1.0	R1999	Dec 99	S4	EKUDDEN, Erik	approved TSG#6. TSG#7: 3.1.0
TS	26.074	AMR speech Codec; Test sequences	3.0.2	R1999	Dec 99	S4	EKUDDEN, Erik	.
TS	26.090	AMR speech Codec; Transcoding Functions	3.1.0	R1999	Jun 99	S4	EKUDDEN, Erik	.

TS	26.091	AMR speech Codec; Error concealment of lost frames	3.1.0	R1999	Jun 99	S4	EKUDDEN, Erik	.
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	3.0.1	R1999	Jun 99	S4	EKUDDEN, Erik	.
TS	26.093	AMR speech Codec; Source Controlled Rate operation	3.2.0	R1999	Jun 99	S4	EKUDDEN, Erik	TSG#8:3.2.0
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	3.0.0	R1999	Oct 99	S4	..,	.
TS	26.101	AMR speech Codec; Frame Structure	3.1.0	R1999	Dec 99	S4	HAGQVIST, Jari	TSG#7: 3.1.0
TS	26.102	AMR speech Codec; Interface to Iu and Uu	3.1.0	R1999	Dec 99	S4	NAVARRO, William	TSG#7: 3.1.0
TS	26.103	Codec lists	3.0.0	R1999	Dec 99	S4	HELLWIG, Karl	.
TS	26.104	AMR speech Codec; Floating point C-Code	3.0.0	R1999	Mar 00	S4	..,	New at TSG#6. TSG#7:0.3.0 (SP-000022) 0.3.0 TSG#8:3.0.0 (1.0.0)
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	3.0.1	R1999	Jun 99	S4	ARONSON, Barry	.
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	4.0.0	Rel-4	Mar 01	S4	ARONSON, Barry	. TSG#9:4.0.0
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	3.3.0	R1999	Jun 99	S4	ARONSON, Barry	TSG#8:3.2.0 TSG#9:3.3.0
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	3.1.0	R1999	Dec 99	S4	GOETZ, Ian	TSG#8:3.1.0
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	3.1.0	R1999	Jun 00	S4	GOETZ, Ian	Feb00: 0.0.1 TSG#8:3.0.0 (1.0.0) TSG#9:3.1.0
TS	26.226	Global text telephony;Transport of text in the voice channel	0.0.9	Rel-4	Dec 00	S4	HELLSTROM, Gunnar	WI approved TSG#7 TSG#9:0.0.9
TR	26.901	AMR Wideband Speech Codec Feasibility Study Report	4.0.1	Rel-4	Mar 00	S4	OHANA, Alain	TSG#7:2.0.0 (SP-000024), 4.0.0
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	3.2.1	R1999	Jun 99	S4	HAAVISTO, Petri	Oct00:3.2.1
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	3.0.0	R1999	Mar 00	S4	FRANCESCHI, Olle	TSG#7:2.0.0 (SP-000019), 3.0.0
TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	0.0.1	R1999	Mar 00	S4	HONKO, Harri	.
TR	26.915	QoS for Speech and Multimedia Codec; Quantitative performance evaluation of real-time packet switched multimedia services over 3G	3.0.0	R1999	Mar 00	S4	GOETZ, Ian	TSG#7:1.0.0 (SP-000020), 3.0.0
TR	26.920	Architectural Model for the 3G Transcoders	0.1.1	Rel-4	tbd	S4	NAVARRO, William	.
TR	26.975	Performance characterization of the AMR speech codec	1.1.0	R1999	Mar 00	S4	EKUDDEN, Erik	was 25.075; Feb00: 1.1.0. TSG#7: 1.1.0
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	3.6.0	R1999	April 99	N3	COLBAN, Erik	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	4.1.0	Rel-4		N3	COLBAN, Erik	TSG#8:4.0.0 TSG#9:4.1.0
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	3.5.0	R1999	April 99	N3	COLBAN, Erik	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	4.0.0	Rel-4		N3	COLBAN, Erik	
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	3.5.0	R1999	April 99	N3	COLBAN, Erik	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
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)	3.1.0	R1999	Jun 99	T2	HARRIS, Ian	.
TS	27.007	AT command set for 3G User Equipment (UE)	3.6.0	R1999	Jun 99	T2	NOVAK, Lars	TSG#8:3.5.0 TSG#9:3.6.0

TS	27.007	AT command set for 3G User Equipment (UE)	4.0.0	Rel-4	Jun 99	T2	NOVAK, Lars	TSG#8:3.5.0 TSG#9:4.0.0
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0	R1999	Jun 99	T2	NOVAK, Lars	additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#7: 3.3.0
TS	27.060	GPRS Mobile Stations supporting GPRS	3.4.0	R1999	April 99	N3	HEATON, Graham	TSG#7: 3.4.0
TS	27.103	Wide Area Network Synchronisation	3.1.0	R1999	Oct 99	T2	LOCKHART, Rob	TSG#8:3.1.0 but this CR not impementable. TSG#9:3.1.0
TS	27.226	Global Text telephony;Terminal aspects	0.0.0	Rel-4	Dec 00	T2	HELLSTROM, Gunnar	WI approved TSG#7
TR	27.901	Report on Terminal Interfaces - An Overview	3.0.0	R1999	Dec 99	T2	REX, Thomas	.
TR	27.903	Discussion of Synchronisation Standards	3.0.0	R1999	Oct 99	T2	LOCKHART, Rob	.
TS	28.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	0.0.0	Rel-4	Mar 01	S4	..,	.
TS	29.002	Mobile Application Part (MAP)	3.6.0	R1999	April 99	N4	..,	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	29.002	Mobile Application Part (MAP)	4.1.0	Rel-4	April 99	N4	..,	TSG#8:4.0.0 TSG#9:4.1.0
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	3.6.0	R1999	April 99	N3	KLEHN, Norbert	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	4.0.0	Rel-4	Dec 00	N3	KLEHN, Norbert	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:4.0.0
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)	3.3.0	R1999	Oct 99	N4	..,	TSG#7: 3.2.0 TSG#9:3.3.0
TS	29.011	Signalling Interworking for Supplementary Services	3.0.0	R1999	April 99	N4	..,	.
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	3.0.0	R1999	Oct 99	N4	..,	.
TS	29.016	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	3.1.0	R1999	April 99	N1	MILLS, Duncan	. TSG#9:3.1.0
TS	29.018	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	3.4.0	R1999	April 99	N1	MILLS, Duncan	TSG#7: 3.3.0 TSG#9:3.4.0
TS	29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	3.6.0	R1999	April 99	N4	OLTEDAL, Einar	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	3.4.0	R1999	April 99	N3	HEATON, Graham	TSG#7: 3.3.0 TSG#9:3.4.0
TS	29.078	CAMEL; Stage 3	3.5.0	R1999	Oct 99	N2	NOLDUS, Rogier	CR@TSG#6, note version changes are not available, 3.1.0 was not created. TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	3.0.0	R1999	Jun 00	R3	VESELY, Alexander	TSG#8:3.0.0 (2.0.0)
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	3.0.0	R1999	Mar 00	N4	AIKAWA, Shinichiro	Functionally frozen by CN#6. TSG#7:2.0.0 (TP-000107) 3.0.0
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); stage 3	3.1.0	R1999	Mar 00	N4	MITAMURA, Kazuo	Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99. TSG#7:2.0.0 3.0.0 TSG#9:3.1.0
TS	29.198	Open Services Architecture API part 1	3.1.0	R1999	Jun 00	N5	HU, Yun Chao	TSG#7:1.0.0 (TP-000056) 1.0.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TR	29.998	Open Services Architecture API part 2	3.1.0	R1999	Jun 00	N5	HU, Yun Chao	TSG#7:1.0.0 (TP-000057) 1.0.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TR	30.504	Work Plan and Study Items - RAN WG4	2.2.0	<?>	Mar 00	R4	IWASA, Masaaki	.
TR	30.531	Work Plan and Study Items - RAN WG3	0.8.2	R1999	Mar 00	R3	TAYLOR, Carolyn	TSG#7:0.7.0 (RP-000142) 0.7.0 TSG#8:0.8.0 TSG£9:0.8.1 TSG#9:0.8.2
TR	30.801	Overall Project Plan	1.1.0	<?>	Mar 00	S2	SULTAN, Alain	.

TR	30.802	Project plan on Bearer Services and QoS	1.0.0	<?>	Mar 00	S2	LOPEZ-TORRES, Oscar	.
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	1.0.0	<?>	Mar 00	S2	COURAU, François	.
TR	30.806	Project plan on Location based services	1.0.0	<?>	Mar 00	S2	KÅLL, Jan	.
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	1.0.0	<?>	Mar 00	S2	DROPMANN, Ulrich	.
TR	30.810	Project plan on Security	1.0.0	<?>	Mar 00	S2	PUDNEY, Chris	.
TR	30.812	Project plan on Services and Service platforms	1.0.0	<?>	Mar 00	S2	SCHMERSEL, Rob	.
TS	31.102	Characteristics of the USIM Application	3.3.0	R1999	Dec 99	T3	HEIM, Christian	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	31.110	Numbering system for telecommunication IC card applications	3.2.0	R1999	Dec 99	T3	DIETRICH, Christian	TSG#7: 3.1.0 TSG#9:3.2.0
TS	31.111	USIM Application Toolkit (USAT)	3.2.0	R1999	Mar 00	T3	WOODSEND, Kristian	TSG#7: 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	31.111	USIM Application Toolkit (USAT)	4.0.0	Rel-4	Dec 00	T3	WOODSEND, Kristian	TSG#7: 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0
TS	31.120	Terminal tests for the UICC Interface; part 1	1.0.0	R1999	Jun 00	T3	MAESER, Torsten	. TSG#9:1.0.0
TS	31.121	Terminal tests for the UICC Interface; part 2	1.0.0	R1999	Jun 00	T3	AFCHAR, Ramin	. TSG#9:1.0.0
TS	31.122	UICC Test Specification	1.0.0	R1999	Jun 00	T3	KNIGHT, Simon	. TSG#9:1.0.0
TS	32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	3.2.0	R1999	Jun 00	S5	NENNER, Karl Heinz	Title change. TSG#7: TSG#8:3.1.0->3.2.0 when fully implemented.
TS	32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	3.3.0	R1999	Jun 00	S5	NENNER, Karl Heinz	Title change. TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	32.101	3G Telecom Management principles and high level requirements	3.2.0	R1999	Mar 00	S5	TRUSS, Michael	Outstanding R99 issues. TSG#7: 3.1.0 TSG#8:3.2.0
TS	32.102	3G Telecom Management Architecture	3.2.0	R1999	Mar 00	S5	BERGGREN, Tommy	Outstanding R99 issues. TSG#7: 3.1.0 TSG#8:3.2.0
TS	32.104	3G Performance Management	3.3.0	R1999	Mar 00	S5	NENNER, Karl Heinz	Outstanding R99 issues. TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	32.105	Charging & Billing; GSM call and event data for the Circuit Switched (CS) domain	0.0.4	R1999	Jun 00	S5	NENNER, Karl Heinz	New at TSG#6. TSG#7:
TS	32.106-1	Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	3.1.0	R1999	Mar 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.106-2	Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	3.1.0	R1999	Mar 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.106-3	Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	3.1.0	R1999	Mar 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.106-4	Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	3.1.0	R1999	Mar 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	1.0.1	R1999	Dec 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99) TSG#9:1.0.0
TS	32.106-6	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	0.0.0	R1999	Dec 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99)
TS	32.106-7	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1	0.0.0	R1999	Dec 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99)
TS	32.106-8	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	3.1.0	R1999	Mar 00	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0

TS	32.111-1	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	3.2.0	R1999	Jun 00	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0
TS	32.111-2	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	3.2.0	R1999	Jun 00	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0
TS	32.111-3	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	3.2.0	R1999	Jun 00	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0
TS	32.111-4	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	3.1.1	R1999	Jun 00	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.140	3G Service Management Requirements & Framework	0.1.0	Rel-4		S5	CARYER, Geoffrey	TSG#8:0.1.0 but associated WI not approved.
TR	32.800	Management level procedures and interaction with UTRAN	0.0.0	Rel-4	Mar 01	S5	HIJDRA, Martiyn	
TS	33.102	Security Architecture	3.6.0	R1999	Mar 00	S3	VINCK, Bart	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	33.103	Security Integration Guidelines	3.4.0	R1999	Oct 99	S3	BLANCHARD, Colin	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	33.105	Cryptographic Algorithm requirements	3.5.0	R1999	Jun 99	S3	CHIKAZAWA, Takeshi	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	33.106	Lawful interception requirements	3.1.0	R1999	Jun 00	S3	WILHELM, Berthold	.
TS	33.107	Lawful interception architecture and functions	3.0.0	R1999	Dec 99	S3	WILHELM, Berthold	New at TSG#6 approved
TS	33.120	Security Objectives and Principles	3.0.0	R1999	April 99	S3	WRIGHT, Tim	.
TR	33.900	Guide to 3G security	1.2.0	R1999	Mar 00	S3	BROOKSON, Charles	New at TSG#6
TR	33.901	Criteria for cryptographic Algorithm design process	3.0.0	R1999	Jun 99	S3	BLOM, Rolf	.
TR	33.902	Formal Analysis of the 3G Authentication Protocol	3.1.0	R1999	Oct 99	S3	HORN, Guenther	.
TR	33.908	Security Algorithms Group of Experts (SAGE); General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	3.0.0	R1999	Mar 00	S3	WALKER, Michael	TSG#7 SP-000039
TR	33.909	ETSI SAGE 3GPP Standards Algorithms Task Force: Report on the evaluation of 3GPP standard confidentiality and integrity algorithms	3.0.0	R1999	Jun 00	S3	WALKER, Michael	TSG#7: refered to in 33.908.
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	3.1.0	R1999	Jun 00	T1	CHALABI, Nouhman	TSG#7:(TP-000032) 1.0.0, 1.0.1 TSG#8:aprvl is controversial TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TS	34.109	Logical Test Interface (TDD and FDD)	3.1.0	R1999	Jun 00	R2	MATTISSON, Leif	Feb00: 1.1.0 TSG#7: 1.2.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	3.2.0	R1999	Mar 00	T1	HIGUCHI, Kenji	TSG#7: 2.0.0(TP-000033), 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	3.1.0	R1999	Jun 00	T1	MAUCKSCH, Thomas	TSG#7: 1.2.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TS	34.123-1	UE Conformance Specification, Part 1 – Conformance specification	3.1.0	R1999	Jun 00	T1	SALMERON, Lidia	TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0
TS	34.123-2	UE Conformance Specification, Part 2 – ICS	3.1.0	R1999	Dec 00	T1	HU, Shicheng	TSG#7: 1.0.1 TSG#8: aprvl target postponed to end-00;TP-000137 TSG#9:2.0.0->3.1.0 (no 3.0.0 to keep in step with part 1).
TS	34.123-3	UE Conformance Specification, Part 3 Abstract Test suites	0.0.0	R1999	Dec 01	T1	HU, Shicheng	TSG#9: v3 expected Mar01, stable Dec01.
TS	34.124	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	3.1.0	R1999	Mar 00	T1	SOERENSEN, Ole	TSG#7: 2.0.1(SP-000034), 3.0.0 TSG#9:3.1.0
TR	34.907	Report on electrical safety requirements and regulations	3.0.0	R1999	Oct 99	T2	IIMORI, Eiji	.
TR	34.910	Conformance Test specifications – Relevant for Regulatory use	0.0.1	Rel-4	Mar 01	T1	NIELSEN, Bjarke	.
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0	R1999	Jun 99	T2	JOHNSSON, Sven	.
TR	34.926	Table of International EMC requirements	1.0.0	Rel-4	Jun 00	T1	FENN, John B	TP-000138 TSG#9:1.0.0

TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	3.1.0	R1999	Mar 00	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	3.1.0	R1999	Mar 00	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	3.1.0	R1999	Mar 00	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	3.1.0	R1999	Mar 00	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
	41.001	GSM R99 Specification set	0.0.0	Rel-4		GP	COURAU, François	info at #30 Alignment with 21.101: 1.1.0. Aprvl expected SMG#31b; or #32 … #32:2.0.0 -> 8.0.0
	41.004	Abbreviations and Acronyms	0.0.0	Rel-4		GP	CLAYTON, Michael	.
	41.031	Fraud Information Gathering System (FIGS); Service requirements - Stage 0	0.0.0	Rel-4		S3	WRIGHT, Tim	.
	41.033	Lawful Interception requirements for GSM	0.0.0	Rel-4		S3	MILES, David F.	.
	41.061	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	0.0.0	Rel-4		S3	..,	.
	42.009	Security Aspects	0.0.0	Rel-4		S3	GILBERT, Henri	.
	42.017	Subscriber Identity Modules, Functional Characteristics	0.0.0	Rel-4		T3	GREEN, Mark	7.1.0 #30: 8.0.0
	42.019	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	0.0.0	Rel-4		T3	DIETRICH, Christian	.
	42.031	Fraud Information Gathering System (FIGS) Service description - Stage 1	0.0.0	Rel-4		S3	WRIGHT, Tim	.
	42.032	Immediate Service Termination (IST); Service description - Stage 1	0.0.0	Rel-4		S3	WRIGHT, Tim	.
	42.033	Lawful Interception - Stage 1	0.0.0	Rel-4		S3	MILES, David F.	.
	42.048	Security mechanisms for the SIM Application Toolkit; Stage 1	0.0.0	Rel-4		T3	BARNES, David	.
	42.056	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	0.0.0	Rel-4		S1	GALLIGO, Michel	.
TS	42.068	Voice Group Call Service (VGCS) - Stage 1	4.0.0	Rel-4		S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0)
TS	42.069	Voice Broadcast Service (VBS) - Stage 1	4.0.0	Rel-4		S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0)
	42.094	Follow Me Service description - Stage 1	0.0.0	Rel-4		S1	..,	#28: 1.0.0 #30: 8.0.0
	42.095	Digital cellular telecommunications system (Phase 2+); Support of Private Numbering Plan (SPNP); Service description, Stage 1	0.0.0	Rel-4		S1	..,	.
	43.001	Network Functions	0.0.0	Rel-4		S2	GAASVIK, Per-Ola	.
	43.005	Technical Performance Objectives	0.0.0	Rel-4		NP	..,	.
	43.010	GSM Public Land Mobile Network (PLMN) Connection Types	0.0.0	Rel-4		N3	BRAUN, Achim	#29: 8.0.0 TSG#6: 8.1.0
	43.013	Discontinuous Reception (DRX) in the GSM System	0.0.0	Rel-4		GP	..,	.
	43.019	GSM API for SIM toolkit stage 2	0.0.0	Rel-4		T3	DIETRICH, Christian	.
	43.020	Security-related Network Functions	0.0.0	Rel-4		S3	GILBERT, Henri	#32:8.1.0
	43.022	Functions Related to Mobile Station (MS) in Idle Mode	4.0.0	Rel-4		G2	HOWELL, Andrew	#29: 8.0.0 #30: 8.1.0 #30bis: 8.2.0 eds 8.2.1 #31:8.3.0 GERAN#1:4.0.0
	43.026	Multiband operation of GSM/DCS 1800 by a single operator	0.0.0	Rel-4		GP	..,	.
	43.030	Radio Network Planning Aspects	4.0.0	Rel-4		GP	STEVENS, Peter John	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 GERAN#1:4.0.0
	43.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	0.0.0	Rel-4		S3	WRIGHT, Tim	.
	43.033	Lawful Interception - stage 2	0.0.0	Rel-4		S3	MILES, David F.	.
	43.035	Immediate Service Termination (IST); Stage 2	0.0.0	Rel-4		S3	WRIGHT, Tim	.

	43.045	Technical Realization of Facsimile Group 3 Service - transparent	0.0.0	Rel-4		N3	..,	#29: 8.0.0
	43.046	Technical Realization of Facsimile Group 3 Service - non transparent	0.0.0	Rel-4		N3	..,	#29: 7.0.0 TSG#6: 8.0.0 (source Klehn)
	43.048	Security Mechanisms for SIM Toolkit Application - Stage 2	0.0.0	Rel-4		T3	BARNES, David	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 TSG#8:8.3.0
	43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	0.0.0	Rel-4		S4	USAI, Paolino	#32:8.1.0
	43.051	GERAN overall description; stage 2	0.0.1	Rel-4		GP	SEBIRE, Guillaume	Created after TSG#8.
	43.052	Lower layers of the GSM Cordless Telephony System (CTS) radio interface - Stage 2	0.0.0	Rel-4		GP	DESBLANCS, Philippe	.
	43.053	Tandem Free Operation (TFO); Service description; Stage 2	0.0.0	Rel-4		S4	FAUCONNIER, Denis	.
	43.056	GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2	0.0.0	Rel-4		S2	ROBERTS, Martin	.
	43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	0.0.0	Rel-4		S4	MONFORT, Jean-Yves	.
	43.059	Location services (LCS) GERAN; Stage 2	0.0.1	Rel-4		GP	LIVINGSTON, Margaret	
	43.059	Location services (LCS) GERAN; Stage 2	0.0.2	Rel-4		GP	LIVINGSTON, Margaret	
	43.063	Packet Data on Signalling channels service (PDS) Service description, Stage 21	0.0.0	Rel-4		N1	JACOBSOHN, Dieter	#31: 8.0.0
	43.064	Overall description of the GPRS radio interface; Stage 2	0.0.0	Rel-4		G2	..,	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0
TS	43.068	Voice Group Call Service (VGCS); Stage 2	4.1.0	Rel-4		N1	MÜNNING, Dirk	#31: 8.0.0 TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0 #32:9.0.0 TSG#8:9.0.0->4.0.0 TSG#9:4.1.0
TS	43.069	Voice Broadcast service (VBS); Stage 2	4.1.0	Rel-4		N1	MÜNNING, Dirk	#32:9.0.0 TSG#8:9.0.0 TSG#9:4.1.0
	43.071	Location services (LCS); Stage 2	0.0.0	Rel-4		S2	BROOK, Richard	Need identified at TSG#7, since 23.171 does not cover GSM.
	44.001	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	0.0.0	Rel-4		N1	AVELINE, Sophie	#31: 8.0.0
	44.003	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	0.0.0	Rel-4		G2	THOMAS, Rémi	#30: 8.0.0
	44.004	Layer 1 - General Requirements	0.0.0	Rel-4		G2	THOMAS, Rémi	#30: 8.0.0 #30b: 8.1.0
	44.005	Data Link (DL) Layer General Aspects	0.0.0	Rel-4		G2	..,	.
	44.006	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	0.0.0	Rel-4		G2	..,	.
	44.013	Performance Requirements on Mobile Radio Interface	0.0.0	Rel-4		N1	MILLS, Duncan	#31: 8.0.0
	44.014	Individual equipment type requirements and interworking; Special conformance testing functions	0.0.0	Rel-4		G2	HOWELL, Andrew	#32:8.1.0
TS	44.018	Mobile Radio Interface - Layer 3 Specification RR part	4.1.0	Rel-4		G2	HOWELL, Andrew	#32:9.0.0 MCC-converted Aug00:4.0.0 GERAN#1: 4.1.0
	44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	0.0.0	Rel-4		N3	RÄSÄNEN, Juha	#29: 8.0.0 TSG#8:8.1.0
	44.031	Location Services LCS RR LCS Protocol	0.0.0	Rel-4		G2	DOSHI, Sonia	.
	44.035	Location Services LCS Stage 3 E-OTD Enhanced Observed	0.0.0	Rel-4		G2	DOSHI, Sonia	.
	44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	0.0.0	Rel-4		N1	HUPPERICH, Peter	#31: 8.0.0
	44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	0.0.0	Rel-4		N1	HUPPERICH, Peter	#31: 8.0.0

	44.060	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	0.0.0	Rel-4		G2	..,	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0
	44.063	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	0.0.0	Rel-4		N1	JACOBSOHN, Dieter	#31: 8.0.0
	44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	0.0.0	Rel-4		N1	SALKINTZIS, Apostolis	#29: 8.0.0 #30: 8.1.0 post-TSG#6:8.2.0 #31:8.3.0 TSG#8:8.4.0
	44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	0.0.0	Rel-4		N1	SALKINTZIS, Apostolis	#31: 8.0.0
TS	44.068	Group Call Control (GCC) Protocol	4.0.0	Rel-4		N1	..,	#32:9.0.0 TSG#8:9.0.0 GERAN#1:4.1.0
TS	44.069	Broadcast Call Control (BCC) protocol	4.0.0	Rel-4		N1	..,	TSG#8:9.0GERAN#1:4.1.0
	44.071	Location services (LCS) stage 3	0.0.0	Rel-4		G2	DOSHI, Sonia	#32:8.1.0
	45.001	Physical Layer on the Radio Path (General Description)	4.0.0	Rel-4		GP	ANDERSEN, Niels Peter Skov	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #32:8.4.0 GERAN#1:4.0.0
	45.002	Multiplexing and Multiple Access on the Radio Path	4.0.0	Rel-4		GP	..,	#29: 8.0.1 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:4.0.0
	45.003	Channel Coding	0.0.0	Rel-4		GP	..,	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0
	45.004	Modulation	0.0.0	Rel-4		GP	REINER, Michaël	#28: 8.0.0 #30b 8.1.0 GERAN#1:4.0.0
	45.005	Radio Transmission and Reception	4.0.0	Rel-4		GP	CHARLES, Jean Pierre	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0
	45.008	Radio Subsystem Link Control	4.0.0	Rel-4		GP	WHITE, Phil	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:4.0.0
	45.009	Link Adaptation	0.0.0	Rel-4		GP	..,	#31:8.0.0 #32:8.1.0
	45.010	Radio Subsystem Synchronization	0.0.0	Rel-4		GP	BENN, Howard	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.2.0 #32:8.4.0
	45.022	Radio link management in hierarchical networks	0.0.0	Rel-4		GP	..,	.
	45.050	Background for RF Requirements	0.0.0	Rel-4		GP	..,	#30: 8.0.0 #31:8.1.0 #31b:8.2.0
	45.056	CTS-FP Radio Sub-system	0.0.0	Rel-4		GP	..,	.
	46.001	Full Rate Speech Processing Functions	0.0.0	Rel-4		S4	USAI, Paolino	.
	46.002	Half Rate Speech Processing Functions	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.006	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.007	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	0.0.0	Rel-4		S4	SALEM, Tarek	.
	46.010	Full Rate Speech Transcoding	0.0.0	Rel-4		S4	LORENZ, Dietmar	#32:8.1.0
	46.011	Substitution and Muting of Lost Frames for Full Rate Speech Channels	0.0.0	Rel-4		S4	NAVARRO, William	.
	46.012	Comfort Noise Aspects for Full Rate Speech Traffic Channels	0.0.0	Rel-4		S4	SERENO, Daniele	.
	46.020	Half Rate Speech Transcoding	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.021	Substitution and Muting of Lost Frames for Half Rate Traffic Speech Traffic Channels	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.022	Comfort Noise Aspects for Half Rate Speech Traffic Channels	0.0.0	Rel-4		S4	AFTELAK, Steve	.
	46.031	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	0.0.0	Rel-4		S4	..,	.
	46.032	Voice Activity Detection (VAD)	0.0.0	Rel-4		S4	BARRETT, Paul	.

	46.041	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	0.0.0	Rel-4		S4	..,	.
	46.042	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	0.0.0	Rel-4		S4	BARRETT, Paul	.
	46.051	GSM Enhanced full rate speech processing functions: General description	0.0.0	Rel-4		S4	JÄRVINEN, Kari	#32:8.1.0
	46.053	ANSI-C code for the GSM Enhanced full rate speech codec	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.054	Test sequences for the GSM Enhanced Full Rate (EFR)	0.0.0	Rel-4		S4	JÄRVINEN, Kari	#32:8.1.0
	46.055	Performance characterisation of the GSM EFR Speech Codec	0.0.0	Rel-4		S4	SALEM, Tarek	.
	46.060	Enhanced full rate speech transcoding	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.061	Substitution and muting of lost frames for encanced full rate speech traffic channels	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.062	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.076	Adaptive Multi-Rate (AMR) speech codec; study phase report	0.0.0	Rel-4		S4	..,	TSG#7:2.0.0, 8.0.0
	46.077	Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder	0.0.0	Rel-4		S4	..,	#32:8.0.0
	46.078	Results of the AMR noise suppression selection phase	0.0.0	Rel-4		S4	..,	#32:8.0.0
	46.081	Discontinuous Transmission (DTX) for encanced full rate speech traffic channels	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.082	Voice Activity Detection (VAD) for encanced full rate speech traffic channels	0.0.0	Rel-4		S4	JÄRVINEN, Kari	.
	46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	0.0.0	Rel-4		S4	..,	.
	48.001	General Aspects on the BSS-MSC Interface	0.0.0	Rel-4		G2	DAVIES, Rob	.
	48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	0.0.0	Rel-4		G2	DAVIES, Rob	.
	48.004	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	0.0.0	Rel-4		G2	DAVIES, Rob	.
	48.006	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	0.0.0	Rel-4		G2	DAVIES, Rob	.
TS	48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	4.1.0	Rel-4		G2	DAVIES, Rob	#32:9.0.0 MCC-converted Aug00:4.0.0 GERAN#1:4.1.0
	48.014	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	0.0.0	Rel-4		G2	..,	.
	48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	0.0.0	Rel-4		G2	..,	.
	48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	0.0.0	Rel-4		G2	..,	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.3.0
	48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	0.0.0	Rel-4		N3	RÄSÄNEN, Juha	#29: 8.0.0 #30: 8.1.0
	48.031	Location Services LCS SMLC Peer Protocol (SMLCPP)	0.0.0	Rel-4		G2	DOSHI, Sonia	.
	48.051	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	0.0.0	Rel-4		G2	LYCKSELL, Edgar	.

	48.052	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	0.0.0	Rel-4		G2	LYCKSELL, Edgar	.
	48.054	BSC-BTS : Layer 1 Structure of Physical Circuits	0.0.0	Rel-4		G2	LYCKSELL, Edgar	.
	48.056	BSC-BTS Layer 2 Specification	0.0.0	Rel-4		G2	ANDERSEN, Harald	.
	48.058	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	0.0.0	Rel-4		G2	LYCKSELL, Edgar	#29: 8.0.0 #30: 8.1.0 #30: 8.2.0 #31:8.3.0 #31b:8.4.0
	48.060	Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR	0.0.0	Rel-4		GP	..,	#30: 8.0.1 #30b: 8.1.0
	48.061	Inband Control of Remote Transcoder and Rate Adaptors;(Half Rate)	0.0.0	Rel-4		GP	JACOB, Petra	.
	48.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	0.0.0	Rel-4		S4	..,	.
	48.071	Location services (LCS) SMLC-BSS intface L 3	0.0.0	Rel-4		G2	DOSHI, Sonia	.
	49.001	General Network Interworking Scenarios	0.0.0	Rel-4		N4	..,	.
	49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	0.0.0	Rel-4		N1	JORGENSEN, Per Johan	#31: 8.0.0
	49.031	Location Services LCS Extension (BSSAP-LE)	0.0.0	Rel-4		G2	DOSHI, Sonia	#32:8.2.0
	50.020	Lawful Interception requirements for GSM	0.0.0	Rel-4		S3	..,	.
	50.056	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	0.0.0	Rel-4		S2	GALLIGO, Michel	.
	50.059	Project scheduling and open issues for EDGE	0.0.0	Rel-4		GP	MUELLER, Frank	May00: 1.23.0 ("final" version) #32:8.0.0 (1.23.0)
	50.068	Introduction to the services: enhanced Multi-Level Precedence and Pre-emption (eMLPP), Voice Group Call Service (VGCS), Voice Broadcast Service (VBS)	0.0.0	Rel-4		S2	VAN DER AREND, Peter	.
	50.089	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	0.0.0	Rel-4		GP	ISAACS, Ken	0.0.5 appeared 19-apr-00
TR	50.099	GERAN project plan and open issues	0.0.7	Rel-4		GP	MUELLER, Frank	May00:0.0.5 #32:0.0.5
TS	51.010-1	Conformance Specification	4.0.1	Rel-4		G4	..,	#32:9.0.0 MCC-converted Aug00:4.0.1
TS	51.010-2	Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	0.0.0	Rel-4		T1	HU, Shicheng	
TS	51.010-3	Layer3 (L3) Abstract Test Suite (ATS)	4.0.0	Rel-4		G4	..,	Tdoc 7-00-276; P-00-266 #32:9.0.0
	51.011	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	0.0.0	Rel-4		T3	VEDDER, Klaus	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 #32:8.3.0
	51.014	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	0.0.0	Rel-4		T3	WOODSEND, Kristian	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 #32:8.3.0
	51.018	Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface	0.0.0	Rel-4		T3	LINDHOLM, Rune	.
	51.021	GSM Radio Aspects Base Station System Equipment Specification	0.0.0	Rel-4		GP	BUSIN, Ake	#28: 7.0.0 #29: 7.1.0 #30: 7.2.0 #30b: 8.0.0 #31:8.1.0 #31b:8.1.0 #32:8.3.0
	51.026	GSM Repeater Equipment Specification	0.0.0	Rel-4		GP	BUSIN, Ake	#31b:8.0.0 (based on 5.2.1)
	52.003	Security Management	0.0.0	Rel-4		S5	..,	.
	52.004	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	0.0.0	Rel-4		S5	..,	.
	52.071	Location Serices (LCS); Location services management	0.0.0	Rel-4		S5	DOSHI, Sonia	TSG#8:8.0.0 (2.0.1)
	53.021	Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive	0.0.0	Rel-4		MSG	BUSIN, Ake	No R99 impact. But #32 reinstated. #32:8.0.0
GSM Release 1999 onwards specifications and reports								

	01.00	Working Procedures for SMG	8.0.0	R1999		SP	BERGMANN, Ansgar	#30: 8.0.0
	01.01	GSM R99 Specification set	8.0.0	R1999		GP	COURAU, François	info at #30 Alignment with 21.101: 1.1.0. Aprvl expected SMG#31b; or #32 … #32:2.0.0 -> 8.0.0
	01.04	Abbreviations and Acronyms	8.0.0	R1999		GP	CLAYTON, Michael	.
	01.31	Fraud Information Gathering System (FIGS); Service requirements - Stage 0	8.0.0	R1999		S3	WRIGHT, Tim	.
	01.33	Lawful Interception requirements for GSM	8.0.0	R1999		S3	MCKIBBEN, Bernie	.
	01.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	8.0.0	R1999		S3	WALKER, Michael	.
	02.09	Security Aspects	8.0.0	R1999		S3	CHRISTOFFERSSON, Per	.
	02.17	Subscriber Identity Modules, Functional Characteristics	8.0.0	R1999		T3	HOOKER, Philip	7.1.0 #30: 8.0.0
	02.19	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	8.0.0	R1999		T3	DIETRICH, Christian	.
	02.31	Fraud Information Gathering System (FIGS) Service description - Stage 1	8.0.0	R1999		S3	WRIGHT, Tim	.
	02.32	Immediate Service Termination (IST); Service description - Stage 1	8.0.0	R1999		S3	WRIGHT, Tim	.
	02.33	Lawful Interception - Stage 1	8.0.0	R1999		S3	MCKIBBEN, Bernie	.
	02.48	Security mechanisms for the SIM Application Toolkit; Stage 1	8.0.0	R1999		T3	BARNES, Nigel	.
	02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	8.0.0	R1999		S1	GALLIGO, Michel	.
	02.68	Voice Group Call Service (VGCS) - Stage 1	8.0.0	R1999		S1	GILES, Les	#31:8.0.0
	02.68	Voice Group Call Service (VGCS) - Stage 1	9.0.0	Rel-4		S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0) ->42.068v4.0.0
	02.69	Voice Broadcast Service (VBS) - Stage 1	8.0.0	R1999		S1	GILES, Les	
	02.69	Voice Broadcast Service (VBS) - Stage 1	9.0.0	Rel-4		S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0) ->42.068v4.0.0
	02.76	Noise Suppression for the AMR	8.0.0	R1998		S4	..,	#29: 2.0.0 but approval status unclear. R98 or R99? Conclusion: was approved, R99.
	02.94	Follow Me Service description - Stage 1	8.0.0	R1999		S1	..,	#28: 1.0.0 #30: 8.0.0
	02.95	Digital cellular telecommunications system (Phase 2+); Support of Private Numbering Plan (SPNP); Service description, Stage 1	8.0.0	R1999		S1	..,	.
	03.01	Network Functions	8.0.0	R1999		S2	GAASVIK, Per-Ola	.
	03.05	Technical performance objectives	8.0.0	R1999		NP	..,	.
	03.10	GSM Public Land Mobile Network (PLMN) Connection Types	8.2.0	R1999		N3	BRAUN, Achim	#29: 8.0.0 TSG#6: 8.1.0 TSG#9:8.2.0
	03.13	Discontinuous Reception (DRX) in the GSM System	8.0.0	R1999		GP	..,	.
	03.19	GSM API for SIM toolkit stage 2	8.0.0	R1999		T3	DIETRICH, Christian	.
	03.20	Security-related Network Functions	8.1.0	R1999		S3	NGUYEN NGOC, Sebastien	#32:8.1.0
	03.22	Functions Related to Mobile Station (MS) in Idle Mode	8.3.0	R1999		G2	HOWELL, Andrew	#29: 8.0.0 #30: 8.1.0 #30bis: 8.2.0 eds 8.2.1 #31:8.3.0
	03.26	Multiband operation of GSM/DCS 1800 by a single operator	8.0.0	R1999		GP	..,	.
	03.30	Radio Network Planning Aspects	8.3.0	R1999		GP	STEVENS, Peter John	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0
	03.31	Fraud Information Gathering System (FIGS); Service description; Stage 2	8.0.0	R1999		S3	WRIGHT, Tim	.
	03.33	Lawful Interception - stage 2	8.0.0	R1999		S3	MCKIBBEN, Bernie	.
	03.35	Immediate Service Termination (IST); Stage 2	8.0.0	R1999		S3	WRIGHT, Tim	.
	03.45	Technical Realization of Facsimile Group 3 Service - transparent	8.0.0	R1999		N3	..,	#29: 8.0.0

	03.46	Technical Realization of Facsimile Group 3 Service - non transparent	8.0.0	R1999		N3	..,	#29: 7.0.0 TSG#6: 8.0.0 (source Klehn)
	03.48	Security Mechanisms for SIM Toolkit Application - Stage 2	8.4.0	R1999		T3	BARNES, Nigel	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 TSG#8:8.3.0 TSG#9:8.4.0
	03.50	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	8.1.0	R1999		S4	USAI, Paolino	#32:8.1.0
	03.52	Lower layers of the GSM Cordless Telephony System (CTS) radio interface - Stage 2	8.0.0	R1999		GP	DESBLANCS, Philippe	.
	03.53	Tandem Free Operation (TFO); Service description; Stage 2	8.0.0	R1999		S4	FAUCONNIER, Denis	.
	03.56	GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2	8.0.0	R1999		S2	ROBERTS, Martin	.
	03.58	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	8.0.0	R1999		S4	MONFORT, Jean-Yves	.
	03.63	Packet Data on Signalling channels service (PDS) Service description, Stage 2	8.0.0	R1999		N1	JACOBSOHN, Dieter	#31: 8.0.0
	03.64	Overall description of the GPRS radio interface; Stage 2	8.6.0	R1999		G2	..,	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0
	03.68	Voice Group Call Service (VGCS); Stage 2	8.2.0	R1999		N1	MÜNNING, Dirk	#31: 8.0.0 TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0
	03.68	Voice Group Call Service (VGCS); Stage 2	9.0.0	Rel-4		N1	MÜNNING, Dirk	#32:9.0.0 TSG#8:9.0.0->43.068v4.0.0
	03.69	Voice Broadcast service (VBS); Stage 2	8.2.0	R1999		N1	MÜNNING, Dirk	TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0
	03.69	Voice Broadcast service (VBS); Stage 2	9.0.0	Rel-4		N1	MÜNNING, Dirk	#32:9.0.0 TSG#8:9.0.0->43.069v4.0.0
	03.71	Location services (LCS); Stage 2	8.0.0	R1999		S2	BROOK, Richard	Need identified at TSG#7, since 23.171 does not cover GSM.
	04.01	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	8.0.0	R1999		N1	AVELINE, Sophie	#31: 8.0.0
	04.03	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	8.0.0	R1999		G2	THOMAS, Rémi	#30: 8.0.0
	04.04	Layer 1 - General Requirements	8.1.0	R1999		G2	THOMAS, Rémi	#30: 8.0.0 #30b: 8.1.0
	04.05	Data Link (DL) Layer General Aspects	8.0.0	R1999		G2	..,	.
	04.06	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	8.0.0	R1999		G2	..,	.
	04.08	Mobile Radio Interface - Layer 3 Specification	8.0.0	R1999		N1	HOWELL, Andrew	#29: 8.0.0 but perhaps this should not have been created! (24.008 instead)
	04.13	Performance Requirements on Mobile Radio Interface	8.0.0	R1999		N1	MILLS, Duncan	#31: 8.0.0
	04.14	Individual equipment type requirements and interworking; Special conformance testing functions	8.1.0	R1999		G2	HOWELL, Andrew	#32:8.1.0
	04.18	Mobile Radio Interface - Layer 3 Specification RR part	8.6.0	R1999		G2	HOWELL, Andrew	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0
	04.18	Mobile Radio Interface - Layer 3 Specification RR part	9.0.0	Rel-4		G2	HOWELL, Andrew	#32:9.0.0 Aug00: replaced by 44.018
	04.21	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	8.2.0	R1999		N3	RÄSÄNEN, Juha	#29: 8.0.0 TSG#8:8.1.0 TSG#9:8.2.0
	04.31	Location Services LCS RR LCS Protocol	8.1.0	R1999		G2	DOSHI, Sonia	.
	04.35	Location Services LCS Stage 3 E-OTD Enhanced Observed	8.2.0	R1999		G2	DOSHI, Sonia	. GERAN#1:8.2.0
	04.56	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	8.0.0	R1999		N1	HUPPERICH, Peter	#31: 8.0.0
	04.57	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	8.0.0	R1999		N1	HUPPERICH, Peter	#31: 8.0.0
	04.60	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	8.6.0	R1999		G2	..,	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0

	04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	8.0.1	R1999		N1	JACOBSOHN, Dieter	#31: 8.0.0
	04.64	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	8.5.0	R1999		N1	SALKINTZIS, Apostolis	#29: 8.0.0 #30: 8.1.0 post-TSG#6:8.2.0 #31:8.3.0 TSG#8:8.4.0 TSG#9:8.5.0
	04.65	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	8.1.0	R1999		N1	SALKINTZIS, Apostolis	#31: 8.0.0 TSG#9:8.1.0
	04.68	Group Call Control (GCC) Protocol	8.1.0	R1999		N1	..,	#31: 8.0.0 TSG#7: 8.1.0
	04.68	Group Call Control (GCC) Protocol	9.0.0	Rel-4		N1	..,	#32:9.0.0 TSG#8:9.0.0->44.069v4.0.0
	04.69	Broadcast Call Control (BCC) protocol	8.1.0	R1999		N1	..,	#31: 8.0.0 TSG#7: 8.1.0
	04.69	Broadcast Call Control (BCC) protocol	9.0.0	Rel-4		N1	..,	TSG#8:9.0.0->44.069v4.0.0
	04.71	Location services (LCS) stage 3	8.1.0	R1999		G2	DOSHI, Sonia	#32:8.1.0
	05.01	Physical Layer on the Radio Path (General Description)	8.5.0	R1999		GP	ANDERSEN, Niels Peter Skov	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #32:8.4.0 GERAN#1:8.5.0
	05.02	Multiplexing and Multiple Access on the Radio Path	8.6.0	R1999		GP	..,	#29: 8.0.1 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0
	05.03	Channel Coding	8.5.0	R1999		GP	..,	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0
	05.04	Modulation	8.1.0	R1999		GP	REINER, Michaël	#28: 8.0.0 #30b 8.1.0
	05.05	Radio Transmission and Reception	8.6.0	R1999		GP	CHARLES, Jean Pierre	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0 GERAN#1:8.6.0
	05.08	Radio Subsystem Link Control	8.6.0	R1999		GP	WHITE, Phil	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0
	05.09	Link Adaptation	8.1.0	R1999		GP	..,	#31:8.0.0 #32:8.1.0
	05.10	Radio Subsystem Synchronization	8.5.0	R1999		GP	BENN, Howard	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.2.0 #32:8.4.0 GERAN#1:8.5.0
	05.22	Radio link management in hierarchical networks	8.0.0	R1999		GP	..,	.
	05.50	Background for RF Requirements	8.2.0	R1999		GP	..,	#30: 8.0.0 #31:8.1.0 #31b:8.2.0
	05.56	CTS-FP Radio Sub-system	8.0.0	R1999		GP	..,	.
	06.01	Full Rate Speech Processing Functions	8.0.0	R1999		S4	USAI, Paolino	.
	06.02	Half Rate Speech Processing Functions	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.06	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.07	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.08	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	8.0.0	R1999		S4	SALEM, Tarek	.
	06.10	Full Rate Speech Transcoding	8.1.0	R1999		S4	LORENZ, Dietmar	#32:8.1.0
	06.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels	8.0.0	R1999		S4	NAVARRO, William	.
	06.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels	8.0.0	R1999		S4	SERENO, Daniele	.
	06.20	Half Rate Speech Transcoding	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.21	Substitution and Muting of Lost Frames for Half Rate Traffic Speech Traffic Channels	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels	8.0.0	R1999		S4	AFTELAK, Steve	.
	06.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	8.0.0	R1999		S4	..,	.
	06.32	Voice Activity Detection (VAD)	8.0.0	R1999		S4	BARRETT, Paul	.

	06.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	8.0.0	R1999		S4	..,	.
	06.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	8.0.0	R1999		S4	BARRETT, Paul	.
	06.51	GSM Enhanced full rate speech processing functions: General description	8.1.0	R1999		S4	JÄRVINEN, Kari	#32:8.1.0
	06.53	ANSI-C code for the GSM Enhanced full rate speech codec	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.54	Test sequences for the GSM Enhanced Full Rate (EFR)	8.1.0	R1999		S4	JÄRVINEN, Kari	#32:8.1.0
	06.55	Performance characterisation of the GSM EFR Speech Codec	8.0.0	R1999		S4	SALEM, Tarek	.
	06.60	Enhanced full rate speech transcoding	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.61	Substitution and muting of lost frames for encanced full rate speech traffic channels	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.62	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.76	Adaptive Multi-Rate (AMR) speech codec; study phase report	8.0.0	R1999		S4	..,	TSG#7:2.0.0, 8.0.0
	06.77	Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder	8.0.0	R1999		S4	..,	#32:8.0.0
	06.78	Results of the AMR noise suppression selection phase	8.0.0	R1999		S4	..,	#32:8.0.0
	06.81	Discontinuous Transmission (DTX) for encanced full rate speech traffic channels	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.82	Voice Activity Detection (VAD) for encanced full rate speech traffic channels	8.0.0	R1999		S4	JÄRVINEN, Kari	.
	06.85	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	8.0.0	R1999		S4	..,	.
	08.01	General Aspects on the BSS-MSC Interface	8.0.0	R1999		G2	DAVIES, Rob	.
	08.02	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	8.0.0	R1999		G2	DAVIES, Rob	.
	08.04	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	8.0.0	R1999		G2	DAVIES, Rob	.
	08.06	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	8.0.0	R1999		G2	DAVIES, Rob	.
	08.08	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	8.6.0	R1999		G2	DAVIES, Rob	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0 GERAN#1:8.6.0
	08.08	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	9.0.0	Rel-4		G2	DAVIES, Rob	#32:9.0.0 Aug00: replaced by 48.008
	08.14	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	8.0.0	R1999		G2	..,	.
	08.16	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	8.0.0	R1999		G2	..,	.
	08.18	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	8.4.0	R1999		G2	..,	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.3.0 GERAN#1:8.4.0
	08.20	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	8.2.0	R1999		N3	RÄSÄNEN, Juha	#29: 8.0.0 #30: 8.1.0 TSG#9:8.2.0
	08.31	Location Services LCS SMLC Peer Protocol (SMLCPP)	8.0.0	R1999		G2	DOSHI, Sonia	.

	08.51	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	8.0.0	R1999		G2	LYCKSELL, Edgar	.
	08.52	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	8.0.0	R1999		G2	LYCKSELL, Edgar	.
	08.54	BSC-BTS : Layer 1 Structure of Physical Circuits	8.0.0	R1999		G2	LYCKSELL, Edgar	.
	08.56	BSC-BTS Layer 2 Specification	8.0.0	R1999		G2	ANDERSEN, Harald	.
	08.58	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	8.5.0	R1999		G2	LYCKSELL, Edgar	#29: 8.0.0 #30: 8.1.0 #30: 8.2.0 #31:8.3.0 #31b:8.4.0 GERAN#1:8.5.0
	08.60	Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR	8.1.0	R1999		GP	..,	#30: 8.0.1 #30b: 8.1.0
	08.61	Inband Control of Remote Transcoder and Rate Adaptors;(Half Rate)	8.0.0	R1999		GP	JACOB, Petra	.
	08.62	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	8.0.1	R1999		S4	..,	.
	08.71	Location services (LCS) SMLC-BSS intface L 3	8.1.0	R1999		G2	DOSHI, Sonia	.
	09.01	General Network Interworking Scenarios	8.0.0	R1999		N4	..,	.
	09.08	Application of the Base Station System Application Part (BSSAP) on the E-Interface	8.0.0	R1999		N1	JORGENSEN, Per Johan	#31: 8.0.0
	09.31	Location Services LCS Extension (BSSAP-LE)	8.3.0	R1999		G2	DOSHI, Sonia	#32:8.2.0 GERAN#1:8.3.0
	10.56	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	8.0.0	R1999		S2	GALLIGO, Michel	.
	10.59	Project scheduling and open issues for EDGE	8.0.0	R1999		GP	MUELLER, Frank	May00: 1.23.0 ("final" version) #32:8.0.0 (1.23.0)
	10.68	Introduction to the services: enhanced Multi-Level Precedence and Pre-emption (eMLPP), Voice Group Call Service (VGCS), Voice Broadcast Service (VBS)	8.0.0	R1999		S2	VAN DER AREND, Peter	.
	11.10-1	Mobile station (MS) conformance specification; Part1: Conformance specification	8.2.0	R1999		G4	..,	#29: 7.0.0 #30: 7.1.0 #31: 8.0.0 & 8.1.0 #32:closed. #32:8.2.0
	11.10-1	Mobile station (MS) conformance specification; Part1: Conformance specification	9.0.1	Rel-4		G4	..,	#32:9.0.0->51.010-1v4.0.1
	11.10-3	Layer3 (L3) Abstract Test Suite (ATS)	9.0.0	Rel-4		G4	..,	Tdoc 7-00-276; P-00-266 #32:9.0.0->51.010-3v4.0.0
	11.11	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	8.4.0	R1999		T3	GUTHERY, Scott B.	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 #32:8.3.0 TSG#9:8.4.0
	11.14	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	8.4.0	R1999		T3	WOODSEND, Kristian	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 #32:8.3.0 TSG#9:8.4.0
	11.18	Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface	8.0.0	R1999		T3	LINDHOLM, Rune	.
	11.21	GSM Radio Aspects Base Station System Equipment Specification	8.4.0	R1999		G3	BUSIN, Ake	#28: 7.0.0 #29: 7.1.0 #30: 7.2.0 #30b: 8.0.0 #31:8.1.0 #31b:8.1.0 #32:8.3.0 GERAN#1:8.4.0
	11.26	GSM Repeater Equipment Specification	8.0.1	R1999		G3	BUSIN, Ake	#31b:8.0.0 (based on 5.2.1)
	12.03	Security Management	8.0.0	R1999		S5	..,	.
	12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	8.0.0	R1999		S5	..,	.
	12.71	Location Serices (LCS); Location services management	8.0.0	R1999		S5	DOSHI, Sonia	TSG#8:8.0.0 (2.0.1)
	13.21	Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive	8.0.0	R1999		MSG	BUSIN, Ake	No R99 impact. But #32 reinstated. #32:8.0.0

Annex E: List of Change Requests and their status after TSG SA Meeting #9

E.1 CRs from SA WG1:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000380	21.905	002		3.1.1	R99	New Abbreviations and Definitions for R99	approved	D	3.2.0	3G Vocabulary
SP-000381	21.905	003		3.1.1	rel-4	Change of Name of MExE	approved	D	4.0.0	3G Vocabulary
SP-000389	22.001	004		3.2.0	rel-4	CR on TS22.001 for Bearer Modification without pre-notification	approved	B	4.0.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)
SP-000371	22.002	007		3.4.0	R99	32 kbit/s UDI/RDI multimedia in GSM	approved	F	3.5.0	Circuit Bearer Services Supported by a PLMN
SP-000390	22.002	008		3.4.0	rel-4	Deletion of bearer service BS 30 NT	approved	C	4.0.0	Circuit Bearer Services Supported by a PLMN
SP-000372	22.011	017		3.2.0	R99	Alignment with 23.122 on selection procedure	approved	F	3.3.0	Service accessibility
SP-000372	22.011	018		4.1.0	rel-4	Alignment with 23.122 on selection procedure	approved	F	4.2.0	Service accessibility
SP-000385	22.011	019		4.1.0	rel-4	Reselection attempts of GPRS terminals	withdrawn	D		Service accessibility
SP-000376	22.030	009		3.3.0	R99	Codes for defined Supplementary Services	approved	F	3.4.0	Man-Machine Interface (MMI) of the Mobile Station (MS)
SP-000382	22.038	004		3.2.0	rel-5	Release 2000 features	approved	B	5.0.0	SIM application toolkit (SAT); Stage 1
SP-000381	22.038	005		3.2.0	rel-4	Change of MExE name	approved	D	4.0.0	SIM application toolkit (SAT); Stage 1
SP-000381	22.057	002		3.0.1	rel-4	Mobile Execution Environment	approved	D	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1
SP-000388	22.057	003		3.0.1	rel-5	MExE support of multimedia services	approved	B	5.0.0	Mobile Station Application Execution Environment (MExE); Stage 1
SP-000388	22.057	004		3.0.1	rel-4	MExE Release 2000	approved	D	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1
SP-000388	22.057	005		3.0.1	rel-4	MExE Classmark updates	approved	B	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1
SP-000373	22.060	018		3.4.0	R99	Removal of PTM-G text from stage 1	approved	F	3.5.0	General Packet Radio Service (GPRS); Stage 1
SP-000378	22.071	007		3.2.0	R99	Correction to LCS Service Description Stage 1 Document (R'99)	approved	F	3.3.0	Location Services (LCS); Stage 1
SP-000378	22.071	008		4.0.0	rel-4	Correction to LCS Service Description Stage 1 Document (R'00)	approved	F	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	009		4.0.0	rel-4	Provision of Velocity for Location Services	approved	C	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	010		4.0.0	rel-4	External LCS client identity	approved	B	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	011		4.0.0	rel-4	Privacy Control for LCS	approved	B	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	012		4.0.0	rel-4	Privacy Control for LCS	approved	F	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	013		4.0.0	rel-4	Clarifications to LCS on privacy and Service response	approved	D	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	014		4.0.0	rel-4	LCS: Geographic Location	approved	F	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	015		4.0.0	rel-4	Adding statement on "active" and "idle" UE in chapter 4.13	approved	D	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	016		4.0.0	rel-4	Radio Access Network support for LCS	approved	D	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	017		4.0.0	rel-4	LCS, Identification of a Target UE using IP addresses	approved	D	4.1.0	Location Services (LCS); Stage 1
SP-000392	22.071	018		4.0.0	rel-4	LCS: LCS Open Service Architecture (OSA) and Application Programming Interface.	approved	D	4.1.0	Location Services (LCS); Stage 1
SP-000374	22.078	049		3.4.1	R99	Removal of user interaction at answer DPs (Release 99)	approved	F	3.5.0	CAMEL; Stage 1
SP-000381	22.078	050		3.4.1	rel-4	Change of MExE name	approved	D	4.0.0	CAMEL; Stage 1
SP-000425	22.078	051		3.4.1	rel-5	Proposed CR to 22.078 Section 6 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1
SP-000425	22.078	052		3.4.1	rel-5	Proposed CR to 22.078 Section 1 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000425	22.078	053		3.4.1	rel-5	Proposed CR to 22.078 Section 4 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1
SP-000425	22.078	054		3.4.1	rel-5	Introduction of MT SMS interworking with CAMEL4	approved	B	5.0.0	CAMEL; Stage 1
SP-000425	22.078	055		3.4.1	rel-5	Proposed CR to 22.078 Section 3 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1
SP-000425	22.078	056		3.4.1	rel-5	Removal of tags associated with previous releases of CAMEL	approved	C	5.0.0	CAMEL; Stage 1
SP-000425	22.078	057		3.4.1	rel-5	Introduction of IPT for CAMEL4	withdrawn -> S1	B		CAMEL; Stage 1
SP-000425	22.078	058		3.4.1	rel-5	Inclusion of Mid call event	approved	B	5.0.0	CAMEL; Stage 1
SP-000425	22.078	059		3.4.1	rel-5	Inclusion of flexible tone injection	approved	B	5.0.0	CAMEL; Stage 1
SP-000374	22.078	060		3.4.1	R99	GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2)	approved	F	3.5.0	CAMEL; Stage 1
SP-000425	22.078	061		3.4.1	rel-5	GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2)	approved	C	5.0.0	CAMEL; Stage 1
SP-000457	22.078	062	1	3.4.1	R99	Alignment with stage 2 & 3, and editorial clarification	Postponed to SP-10	F		CAMEL; Stage 1
SP-000425	22.078	064		3.4.1	rel-5	Transport of Charging Information to the Home Network	approved	B	5.0.0	CAMEL; Stage 1
SP-000377	22.091	002		3.0.1	R99	CR on CLI presentation modifications	approved	F	3.1.0	Explicit Call Transfer (ECT) Supplementary Service; Stage 1
SP-000375	22.097	003		3.1.0	R99	Interaction with Multicall	approved	F	3.2.0	Multiple Subscriber Profile (MSP); Stage 1
SP-000383	22.101	040		4.0.0	rel-4	Multimedia messaging	approved	B	4.1.0	UMTS Service principles
SP-000383	22.101	041		4.0.0	rel-4	Service Management requirements	approved	C	4.1.0	UMTS Service principles
SP-000429	22.101	042		4.0.0	rel-5	General corrections and clarifications to 22.101 for Release 2000	Withdrawn	F		UMTS Service principles
SP-000430	22.101	042	1	4.0.0	rel-4	General corrections and clarifications to 22.101 for Release 2000	approved	F	4.1.0	UMTS Service principles
SP-000383	22.101	043		4.0.0	rel-5	Classification of services	approved	F	5.0.0	UMTS Service principles
SP-000383	22.101	044		4.0.0	rel-5	IP multimedia services	approved	B	5.0.0	UMTS Service principles
SP-000383	22.101	045		4.0.0	rel-5	IP multimedia session for Emergency call	approved	B	5.0.0	UMTS Service principles
SP-000383	22.101	046		4.0.0	rel-4	Editorial changes to 22.101 for Release 2000	approved	D	4.1.0	UMTS Service principles
SP-000429	22.101	047		4.0.0	rel-5	Numbering Principles	withdrawn	C		UMTS Service principles
SP-000430	22.101	047	1	4.0.0	rel-4	Numbering Principles	approved	C	4.1.0	UMTS Service principles
SP-000383	22.101	048		4.0.0	rel-4	Service evolution	approved	C	4.1.0	UMTS Service principles
SP-000391	22.101	049		4.0.0	rel-4	Emergency Call	approved	D	4.1.0	UMTS Service principles
SP-000405	22.101	050		4.0.0	rel-4	Text Conversation	approved	B	4.1.0	UMTS Service principles
SP-000430	22.101	051		4.0.0	rel-5	IM Number portability	approved	C	5.0.0	UMTS Service principles
SP-000430	22.101	052		4.0.0	rel-5	Introduction of IM CN Subsystem	approved	F	5.0.0	UMTS Service principles
SP-000383	22.101	053		4.0.0	rel-5	Subscription	approved	F	5.0.0	UMTS Service principles
SP-000383	22.101	054		4.0.0	rel-5	Roaming	approved	F	5.0.0	UMTS Service principles
SP-000379	22.101	055		3.10.0	R99	Handling of interactions between applications requiring the access to UE resources	withdrawn	F		UMTS Service principles
SP-000379	22.101	056		3.10.0	R99	Handling of interactions between applications requiring the access to UE resources	approved	F	3.11.0	UMTS Service principles
SP-000381	22.105	026		3.9.0	rel-4	Change of MExE name	approved	D	4.0.0	Services & Service capabilities
SP-000389	22.105	027		3.9.0	rel-4	Bearer Modification without pre-notification	approved	B	4.0.0	Services & Service capabilities

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000387	22.121	011		3.3.0	rel-4	VHE in R00 User Profile	approved	C	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000387	22.121	012		3.3.0	rel-4	VHE in R00	approved	C	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000381	22.121	013		3.3.0	rel-4	Change of MExE name	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000387	22.121	014		3.3.0	rel-4	Realisation of Application interface	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000387	22.121	015		3.3.0	rel-4	Synchronisation of distributed user profiles	approved	B	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000387	22.121	016		3.3.0	rel-4	Uniquely addressable user profiles	approved	B	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000387	22.121	017		3.3.0	rel-4	VASP indirect support of VHE	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1
SP-000426	22.129	013		3.3.0	R99	Removal of requirements for SoLSA support	approved	F	3.4.0	Handover Requirements between UMTS and GSM or other Radio Systems
SP-000389	22.129	014		3.3.0	rel-4	Bearer Modification without pre-notification	approved	B	4.0.0	Handover Requirements between UMTS and GSM or other Radio Systems
SP-000375	22.135	006		3.3.0	R99	Interaction with MSP	approved	F	3.4.0	Multicall Stage 1
SP-000406	22.135	007		3.3.0	R99	Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall	approved	F	3.4.0	Multicall Stage 1
SP-000406	22.135	008		3.3.0	R99	Addition of Ncs_MT limitation to number of MPTY members	approved	F	3.4.0	Multicall Stage 1

E.2 CRs from SA WG2:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000449	23.002	016		3.3.0	rel-5	Introduction of R00 Definitions from 23.821 into 23.002	Approved	B	5.0.0	Network Architecture
SP-000449	23.002	017		3.3.0	rel-5	CR on functional elements	Approved	B	5.0.0	Network Architecture
SP-000449	23.002	018		3.3.0	rel-5	CR on reference model	Approved	B	5.0.0	Network Architecture
SP-000449	23.002	019		3.3.0	rel-5	CR on reference points	Approved	B	5.0.0	Network Architecture
SP-000448	23.060	147	3	3.4.0	R99	Change of the Cell update procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	170	0	3.4.0	R99	DTM: simultaneous LAU and RAU procedures on an SDCCH	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	171	1	3.4.0	R99	DTM: reuse of the GPRS Suspension procedure in cells with no DTM capabilities	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	172	1	3.4.0	R99	DTM: download of the IMSI from the SGSN to the BSC	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	173	0	3.4.0	R99	CS Paging procedure in UMTS	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	174	0	3.4.0	R99	Clarification on P-TMSI and P-TMSI signature at Detach	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000448	23.060	175	1	3.4.0	R99	Serving RNS Relocation Procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	176	1	3.4.0	R99	DRX and MS network capabilities within UMTS	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	177	1	3.4.0	R99	Compatibility GTPv0/GTPv1 in case of SGSN change	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	178	2	3.4.0	R99	Correction on Iu Release Procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000448	23.060	182	1	3.4.0	R99	Removal of PDP type OSP:IHOSS in R99	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000487	23.060	184	2	3.4.0	R99	Clarification to Service Request procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000450	23.107	026	2	3.3.0	R99	Attribute and parameter	Approved	F	3.4.0	Quality of Service, Concept and Architecture
SP-000450	23.107	027	1	3.3.0	R99	Informational content in clause 6.2	Approved	F	3.4.0	Quality of Service, Concept and Architecture
SP-000450	23.107	029	2	3.3.0	R99	Traffic class editorial corrections	Approved	F	3.4.0	Quality of Service, Concept and Architecture
SP-000451	23.121	056		3.3.0	rel-5	Architectural Principles for Release 2000	Approved	B	5.0.0	Architecture Requirements for release 99
SP-000451	23.121	060	2	3.3.0	R99	Correction to Data Retrieve protocol stacks endpoints	Approved	F	5.0.0	Architecture Requirements for release 99
SP-000451	23.121	062	2	3.3.0	R99	Correction to Data Retrieve protocol stacks endpoints	Approved	F	3.4.0	Architecture Requirements for release 99
SP-000452	23.127	011	1	3.2.0	rel-4	Change of TS 23.127 title for version 4.0 and up	Approved	D	4.0.0	Virtual Home Environment - Stage 2
SP-000452	23.127	012		3.1.0	R99	CR on Parlay-OSA alignment: basic service interface	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	013		3.1.0	R99	CR on Parlay-OSA alignment: initial contact interfaces	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	014		3.1.0	R99	CR on Parlay-OSA alignment : access SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	015		3.1.0	R99	CR on Parlay-OSA alignment: load manager SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	016		3.1.0	R99	CR on Parlay-OSA alignment: fault manager SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	017		3.1.0	R99	CR on Parlay-OSA alignment: service factory SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2
SP-000452	23.127	018		3.1.0	R99	CR on Parlay-OSA alignment: authentication interface	Approved	F	3.2.0	Virtual Home Environment - Stage 2

E.3 CRs from SA WG3:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000442	33.102	095	2	3.5.0	R99	Handling of emergency call	approved	F	3.6.0	Security Architecture
SP-000411	33.102	104	1	3.5.0	R99	Re-transmission of authentication request using the same quintet	approved	F	3.6.0	Security Architecture
SP-000442	33.102	105		3.5.0	R99	Length of CFN	approved	F	3.6.0	Security Architecture
SP-000442	33.102	106		3.5.0	R99	Clarification on Sequence Numbers (SQN - SEQ)	approved	F	3.6.0	Security Architecture
SP-000442	33.102	107		3.5.0	R99	Replace IMUI and TMUI with IMSI and TMSI	approved	F	3.6.0	Security Architecture
SP-000442	33.102	108		3.5.0	R99	Replace Quintuplet by Quintet	approved	F	3.6.0	Security Architecture
SP-000442	33.102	109		3.5.0	R99	Conversion function c2	approved	F	3.6.0	Security Architecture
SP-000442	33.102	110		3.5.0	R99	Update terminology regarding VLR/SGSN	approved	F	3.6.0	Security Architecture
SP-000442	33.102	111		3.5.0	R99	Start of ciphering	approved	F	3.6.0	Security Architecture
SP-000442	33.102	112		3.5.0	R99	Removal of ME triggered authentication during RRC connection	approved	F	3.6.0	Security Architecture
SP-000442	33.102	113		3.5.0	R99	Removal of EUIC	approved	F	3.6.0	Security Architecture

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000442	33.102	114		3.5.0	R99	Removal of duplicate text on USIM toolkit secure messaging and addition of a reference to 02.48 and 03.48 instead.	approved	F	3.6.0	Security Architecture
SP-000442	33.102	115		3.5.0	R99	Removal of secure authentication mechanism negotiation.	approved	F	3.6.0	Security Architecture
SP-000442	33.102	116		3.5.0	R99	Removal of HE control of some aspects of security configuration	approved	F	3.6.0	Security Architecture
SP-000442	33.102	117		3.5.0	R99	Specification of authentication vector handling in serving network nodes.	approved	F	3.6.0	Security Architecture
SP-000442	33.102	118		3.5.0	R99	Update of References	approved	F	3.6.0	Security Architecture
SP-000412	33.102	119		3.5.0	R99	Profiles for sequence number management	approved	C	3.6.0	Security Architecture
SP-000442	33.102	120		3.5.0	R99	Change of parameter value x regarding the capability of the USIM to store information on past successful authentication events	approved	F	3.6.0	Security Architecture
SP-000442	33.102	121		3.5.0	R99	Clarifications on integrity and ciphering of radio bearers.	approved	F	3.6.0	Security Architecture
SP-000445	33.102	122		3.5.0	R99	Change of computation of the anonymity key in the re-synchronisation procedure	approved	F	3.6.0	Security Architecture
SP-000442	33.102	123		3.5.0	R99	Clarification on condition on rejecting keys CK and IK	approved	F	3.6.0	Security Architecture
SP-000442	33.102	124		3.5.0	R99	Clarifications on the START parameter handling	approved	F	3.6.0	Security Architecture
SP-000442	33.102	125		3.5.0	R99	New FRESH at SRNC relocation	approved	F	3.6.0	Security Architecture
SP-000442	33.102	126		3.5.0	R99	Addition of authentication parameter lengths	approved	F	3.6.0	Security Architecture
SP-000442	33.102	127		3.5.0	R99	Clarifications on the COUNT parameters	approved	F	3.6.0	Security Architecture
SP-000442	33.102	128		3.5.0	R99	Minor editorial changes	approved	F	3.6.0	Security Architecture
SP-000443	33.103	010		3.3.0	R99	Removal of Network Wide Confidentiality for R99 (clause 6)	approved	F	3.4.0	Security Integration Guidelines
SP-000446	33.103	011		3.3.0	R99	Correction to BEARER definition	approved	F	3.4.0	Security Integration Guidelines
SP-000445	33.103	012		3.3.0	R99	Computation of the anonymity key for re-synchronisation	approved	F	3.4.0	Security Integration Guidelines
SP-000445	33.105	012		3.4.0	R99	Calculation of AK in re-synchronisation	approved	F	3.5.0	Cryptographic Algorithm requirements
SP-000444	33.105	013		3.4.0	R99	Deletion of eUIC	approved	F	3.5.0	Cryptographic Algorithm requirements
SP-000445	33.105	014		3.4.0	R99	Anonymity key computation during re-synchronisation	approved	F	3.5.0	Cryptographic Algorithm requirements

E.4 CRs from SA WG4:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000395	26.110	001		3.0.1	rel-4	CS Multimedia Codec specification for real time text conversation	approved	B	4.0.0	Codec for Circuit switched Multimedia Telephony Service; General Description
SP-000396	26.111	006		3.2.0	R99	MPEG-4 interface to multiplex	approved	F	3.3.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324
SP-000397	26.132	001		3.0.0	R99	Handheld hands-free Test Setup	approved	F	3.1.0	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.

E.5 CRs from SA WG5:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000433	32.015	010		3.2.0	R99	Clarifications to chapter 7 characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain
SP-000433	32.015	011		3.2.0	R99	Clarifications and corrections characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain
SP-000433	32.015	012		3.2.0	R99	Clarification for QoS parameter characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain
SP-000434	32.104	007		3.2.0	R99	Clarification of the table oriented structure of the file format, and addition of ASN.1 example, according to annex D	approved	F	3.3.0	3G Performance Management
SP-000435	32.106-3	001		3.1.0	R99	Add pragma statement to Notification IRP IDL	rejected	F		Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1
SP-000437	32.111-1	001		3.1.0	R99	Clarification On Mediation Function Algorithms	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements
SP-000437	32.111-1	002		3.1.0	R99	Clarification On Clear Alarm Suppression	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements
SP-000438	32.111-2	001		3.1.1	R99	Correction of qualifier for SystemDN	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service
SP-000438	32.111-2	002		3.1.1	R99	Addition of a missing constraint in acknowledgeAlarm operation	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service
SP-000439	32.111-3	001		3.1.0	R99	Update TS 32.111-3 Iterator	rejected	D	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1
SP-000439	32.111-3	002		3.1.0	R99	Clarification On Filterable Body Fields	rejected	D	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1
SP-000439	32.111-3	003		3.1.0	R99	Correct push_structured_event of push_structured_events	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1
SP-000439	32.111-3	004		3.1.0	R99	Remove the use of interface to encapsulate const strings	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1

E.6 CRs from TSG level:

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000402	21.900	007	1	3.3.0	R99	Role of rapporteur for both Specifications and Work Items	approved	F	3.4.0	3GPP Working methods
SP-000402	21.900	007	1	3.2.0	R99	Role of rapporteur for both Specifications and Work Items	approved	C	3.3.0	3GPP Working methods

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000492	21.900	008	2	3.3.0	R99	Clarification of CR categories	approved	F	3.4.0	3GPP Working methods
SP-000493	21.900	008	3	3.2.0	R99	Clarification of CR categories	approved	C	3.3.0	3GPP Working methods
SP-000461	21.900	010		3.3.0	R99	Clarification of CR categories for a frozen 3GPP release	approved	F	3.4.0	3GPP Working methods

Annex F: Status of all 3GPP CRs after TSG SA #9 Meeting

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-000499	03.08	A033		7.3.0	R98	Deletion of "Barring of roaming" stored in the SGSN	approved	A	7.4.0	Organization of Subscriber Data	N4
NP-000499	03.08	A034		6.4.0	R97	Deletion of "Barring of roaming" stored in the SGSN	approved	F	6.5.0	Organization of Subscriber Data	N4
NP-000473	03.10	A012		8.1.0	R99	32kbit/s UDI/RDI multimedia	revised	F		GSM Public Land Mobile Network (PLMN) Connection Types	
NP-000551	03.10	A012	1	8.1.0	R99	32kbit/s UDI/RDI multimedia	approved	F	8.2.0	GSM Public Land Mobile Network (PLMN) Connection Types	
NP-000499	03.16	A041		7.3.0	R98	Correction to Delete Subscriber Data	approved	A	7.4.0	Subscriber Data Management	
NP-000499	03.16	A042		6.4.0	R97	Correction to Delete Subscriber Data	approved	F	6.5.0	Subscriber Data Management	
NP-000482	03.18	A062	1	6.5.0	R97	Correction of Obtain_Routeing_Address for the reconnect case	approved	F	6.6.0	Basic Call Handling	
NP-000482	03.18	A063	1	7.3.0	R98	Correction of Obtain_Routeing_Address for the reconnect case	approved	A	7.4.0	Basic Call Handling	
TP-000146	03.19	A003		7.2.0	R98	Definition of the value of the getShareableInterfaceObject() method byte parameter for the ToolkitInterface.	approved	F	7.3.0	GSM API for SIM toolkit stage 2	
TP-000159	03.19	A004		7.2.0	R98	Correction of the AID coding for the API packages	approved	F	7.3.0	GSM API for SIM toolkit stage 2	
TP-000147	03.48	A012		8.3.0	R99	Modification of the fields to be included in the 03.48 response packet checksum computation.	approved	F	8.4.0	Security Mechanisms for SIM Toolkit Application - Stage 2	
TP-000147	03.48	A013		8.3.0	R99	Clarification of the KID and KIC fields for Open Platform keys.	approved	F	8.4.0	Security Mechanisms for SIM Toolkit Application - Stage 2	
TP-000147	03.48	A014		8.3.0	R99	Clarification on Access Domain parameters in Install(Install) command	approved	F	8.4.0	Security Mechanisms for SIM Toolkit Application - Stage 2	
NP-000450	03.68	A032		6.2.0	R97	Clarification of anchor MSC address format	approved	F	6.3.0	Voice Group Call Service (VGCS); Stage 2	
NP-000450	03.68	A033		7.1.0	R98	Clarification of anchor MSC address format	approved	A	7.2.0	Voice Group Call Service (VGCS); Stage 2	
NP-000450	03.69	A022		6.2.0	R97	Clarification of anchor MSC address format	approved	F	6.3.0	Voice Broadcast service (VBS); Stage 2	
NP-000450	03.69	A023		7.1.0	R98	Clarification of anchor MSC address format	approved	A	7.2.0	Voice Broadcast service (VBS); Stage 2	
NP-000438	04.08	A1039		7.8.0	R98	Deletion of references to OSP:IHOSS for R98	approved	F	7.9.0	Mobile Radio Interface - Layer 3 Specification	
NP-000439	04.08	A1041		6.11.0	R97	Missing P-TMSI reallocation after Attach or RAU	approved	F	6.12.0	Mobile Radio Interface - Layer 3 Specification	
NP-000439	04.08	A1043		7.8.0	R98	Missing P-TMSI reallocation after Attach or RAU	approved	A	7.9.0	Mobile Radio Interface - Layer 3 Specification	
NP-000437	04.08	A1045	1	6.11.0	R97	Optional support of GEA/2 Encryption Algorithm in the MS	approved	F	6.12.0	Mobile Radio Interface - Layer 3 Specification	
NP-000437	04.08	A1047	1	7.8.0	R98	Optional support of GEA/2 Encryption Algorithm in the MS	approved	A	7.9.0	Mobile Radio Interface - Layer 3 Specification	
NP-000439	04.08	A993	1	6.11.0	R97	Usage of cause code IE in network initiated detach	approved	F	6.12.0	Mobile Radio Interface - Layer 3 Specification	
NP-000439	04.08	A995	1	7.8.0	R98	Usage of cause code IE in network initiated detach	approved	A	7.9.0	Mobile Radio Interface - Layer 3 Specification	
NP-000440	04.11	A019		4.10.1	PH2	Corrections of CP/RP-DATA IE lengths	approved	F	4.11.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	
NP-000440	04.11	A020		5.2.1	R96	Corrections of CP/RP-DATA IE lengths	approved	A	5.3.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-000440	04.11	A021		6.0.1	R97	Corrections of CP/RP-DATA IE lengths	approved	A	6.1.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	
NP-000440	04.11	A022		7.0.0	R98	Corrections of CP/RP-DATA IE lengths	approved	A	7.1.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	
NP-000473	04.21	A019		8.1.0	R99	32kbit/s UDI/RDI multimedia	revised	F		Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	
NP-000551	04.21	A019	1	8.1.0	R99	32kbit/s UDI/RDI multimedia	approved	F	8.2.0	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	
NP-000441	04.64	A143	1	8.4.0	R99	Corrections regarding NULL frame	approved	F	8.5.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	
NP-000441	04.65	A070	1	8.0.0	R99	Deletion of PDP type X.25	approved	F	8.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	
NP-000441	04.65	A071	1	8.0.0	R99	Supporting RFC2507 Header Compression in SNDCP	approved	F	8.1.0	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	
NP-000492	04.80	A018		7.3.0	R98	Addition of error type description for PositionMethodFailure	approved	F	7.4.0	Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding	
NP-000473	08.20	A008		8.1.0	R99	32kbit/s UDI/RDI multimedia	revised	F		Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	
NP-000551	08.20	A008	1	8.1.0	R99	32kbit/s UDI/RDI multimedia	approved	F	8.2.0	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	
NP-000499	09.02	A304		5.15.0	R96	Deletion of Annex C	approved	F	5.16.0	Mobile Application Part (MAP) Specification	
NP-000499	09.02	A305		6.8.0	R97	Deletion of Annex C	approved	A	6.9.0	Mobile Application Part (MAP) Specification	
NP-000499	09.02	A306		7.5.0	R98	Deletion of Annex C	approved	A	7.6.0	Mobile Application Part (MAP) Specification	
NP-000492	09.02	A310	1	7.5.1	R98	Correction to QoS indication	approved	F	7.6.0	Mobile Application Part (MAP) Specification	
NP-000536	09.60	A089	2	6.8.0	R97	MM Context information coding clarification	approved	F	6.9.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A090	2	7.5.0	R98	MM Context information coding clarification	approved	A	7.6.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A091	1	7.5.0	R98	Encoding of IMSI	approved	F	7.6.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-000536	09.60	A092	1	6.8.0	R97	Encoding of IMSI	approved	F	6.9.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A094		7.5.0	R98	Removal of IHOSS from GTP	approved	F	7.6.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A095	1	7.5.0	R98	Coding of TI in PDP Context IE	approved	F	7.6.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A096		6.8.0	R97	Addition of MS Not Reachable Reason to Send Routing Information For GPRS Response	approved	F	6.9.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
NP-000536	09.60	A097		7.5.0	R98	Addition of MS Not Reachable Reason to Send Routing Information For GPRS Response	approved	A	7.6.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	
TP-000176	11.11	A116		8.3.0	R99	PLMN Selection Corrections and additions for EDGE	approved	F	8.4.0	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	
TP-000176	11.11	A119		8.3.0	R99	Addition of RPLMN file	approved	C	8.4.0	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	
TP-000148	11.11	A125		8.3.0	R99	Addition of warning regarding network selection with access technology	withdrawn	F		Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	
TP-000148	11.11	A126		8.3.0	R99	Standardise the current GAIT commands and reserving these CLA/INS codes	approved	F	8.4.0	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	
TP-000149	11.14	A183		7.5.0	R98	Clarification for Alpha Identifier in PLAY TONE	approved	F	7.6.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000149	11.14	A184		8.3.0	R99	Clarification for Alpha Identifier in PLAY TONE	approved	F	8.4.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000149	11.14	A185		7.5.0	R98	EVENT DOWNLOAD-MT call : correction of the sub-address description	approved	F	7.6.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000149	11.14	A186		8.3.0	R99	EVENT DOWNLOAD-MT call : correction of the sub-address description	approved	F	8.4.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000149	11.14	A187		7.5.0	R98	correction to GET INPUT regarding number of response string variables	approved	F	7.6.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000149	11.14	A188		8.3.0	R99	correction to GET INPUT regarding number of response string variables	approved	F	8.4.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	
TP-000150	21.111	005		3.2.0	R99	Partial AID selection requirements	approved	F	3.3.0	USIM and IC card requirements	
SP-000402	21.900	007	1	3.2.0	R99	Role of rapporteur for both Specifications and Work Items	approved	C	3.3.0	3GPP Working methods	
SP-000402	21.900	007	1	3.3.0	R99	Role of rapporteur for both Specifications and Work Items	approved	F	3.4.0	3GPP Working methods	

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SP-000492	21.900	008	2	3.3.0	R99	Clarification of CR categories	approved	F	3.4.0	3GPP Working methods	
SP-000493	21.900	008	3	3.2.0	R99	Clarification of CR categories	approved	C	3.3.0	3GPP Working methods	
SP-000461	21.900	010		3.3.0	R99	Clarification of CR categories for a frozen 3GPP release	approved	F	3.4.0	3GPP Working methods	
SP-000461	21.900	10		3.2.0	R99	Clarification of CR categories for a frozen 3GPP release	approved	C	3.3.0	3GPP Working methods	
TP-000143	21.904	006		3.1.0	R99	Reflection of document structure changes in core specifications and correction of editorial mistakes in the annexes	approved	F	3.2.0	UE Capability Requirements (UCR)	
TP-000143	21.904	007		3.1.0	R99	Reflection of document structure changes in core specifications and correction of editorial mistakes in the main text	approved	F	3.2.0	UE Capability Requirements (UCR)	
SP-000380	21.905	002		3.1.1	R99	New Abbreviations and Definitions for R99	approved	D	3.2.0	3G Vocabulary	
SP-000381	21.905	003		3.1.1	rel-4	Change of Name of MExE	approved	D	4.0.0	3G Vocabulary	
SP-000389	22.001	004		3.2.0	rel-4	CR on TS22.001 for Bearer Modification without pre-notification	approved	B	4.0.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	
SP-000371	22.002	007		3.4.0	R99	32 kbit/s UDI/RDI multimedia in GSM	approved	F	3.5.0	Circuit Bearer Services Supported by a PLMN	
SP-000390	22.002	008		3.4.0	rel-4	Deletion of bearer service BS 30 NT	approved	C	4.0.0	Circuit Bearer Services Supported by a PLMN	
SP-000372	22.011	017		3.2.0	R99	Alignment with 23.122 on selection procedure	approved	F	3.3.0	Service accessibility	
SP-000372	22.011	018		4.1.0	rel-4	Alignment with 23.122 on selection procedure	approved	F	4.2.0	Service accessibility	
SP-000385	22.011	019		4.1.0	rel-4	Reselection attempts of GPRS terminals	withdrawn	D		Service accessibility	
SP-000376	22.030	009		3.3.0	R99	Codes for defined Supplementary Services	approved	F	3.4.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	
SP-000382	22.038	004		3.2.0	rel-5	Release 2000 features	approved	B	5.0.0	SIM application toolkit (SAT); Stage 1	
SP-000381	22.038	005		3.2.0	rel-4	Change of MExE name	approved	D	4.0.0	SIM application toolkit (SAT); Stage 1	
SP-000381	22.057	002		3.0.1	rel-4	Mobile Execution Environment	approved	D	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1	
SP-000388	22.057	003		3.0.1	rel-5	MExE support of multimedia services	approved	B	5.0.0	Mobile Station Application Execution Environment (MExE); Stage 1	
SP-000388	22.057	004		3.0.1	rel-4	MExE Release 2000	approved	D	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1	
SP-000388	22.057	005		3.0.1	rel-4	MExE Classmark updates	approved	B	4.0.0	Mobile Station Application Execution Environment (MExE); Stage 1	
SP-000373	22.060	018		3.4.0	R99	Removal of PTM-G text from stage 1	approved	F	3.5.0	General Packet Radio Service (GPRS); Stage 1	
SP-000378	22.071	007		3.2.0	R99	Correction to LCS Service Description Stage 1 Document (R'99)	approved	F	3.3.0	Location Services (LCS); Stage 1	
SP-000378	22.071	008		4.0.0	rel-4	Correction to LCS Service Description Stage 1 Document (R'00)	approved	F	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	009		4.0.0	rel-4	Provision of Velocity for Location Services	approved	C	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	010		4.0.0	rel-4	External LCS client identity	approved	B	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	011		4.0.0	rel-4	Privacy Control for LCS	approved	B	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	012		4.0.0	rel-4	Privacy Control for LCS	approved	F	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	013		4.0.0	rel-4	Clarifications to LCS on privacy and Service response	approved	D	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	014		4.0.0	rel-4	LCS: Geographic Location	approved	F	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	015		4.0.0	rel-4	Adding statement on "active" and "idle" UE in chapter 4.13	approved	D	4.1.0	Location Services (LCS); Stage 1	

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SP-000392	22.071	016		4.0.0	rel-4	Radio Access Network support for LCS	approved	D	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	017		4.0.0	rel-4	LCS, Identification of a Target UE using IP addresses	approved	D	4.1.0	Location Services (LCS); Stage 1	
SP-000392	22.071	018		4.0.0	rel-4	LCS: LCS Open Service Architecture (OSA) and Application Programming Interface.	approved	D	4.1.0	Location Services (LCS); Stage 1	
SP-000374	22.078	049		3.4.1	R99	Removal of user interaction at answer DPs (Release 99)	approved	F	3.5.0	CAMEL; Stage 1	
SP-000381	22.078	050		3.4.1	rel-4	Change of MExE name	approved	D	4.0.0	CAMEL; Stage 1	
SP-000425	22.078	051		3.4.1	rel-5	Proposed CR to 22.078 Section 6 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1	
SP-000425	22.078	052		3.4.1	rel-5	Proposed CR to 22.078 Section 1 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1	
SP-000425	22.078	053		3.4.1	rel-5	Proposed CR to 22.078 Section 4 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1	
SP-000425	22.078	054		3.4.1	rel-5	Introduction of MT SMS interworking with CAMEL4	approved	B	5.0.0	CAMEL; Stage 1	
SP-000425	22.078	055		3.4.1	rel-5	Proposed CR to 22.078 Section 3 for IP Telephony in CAMEL Phase 4	withdrawn -> S1	C		CAMEL; Stage 1	
SP-000425	22.078	056		3.4.1	rel-5	Removal of tags associated with previous releases of CAMEL	approved	C	5.0.0	CAMEL; Stage 1	
SP-000425	22.078	057		3.4.1	rel-5	Introduction of IPT for CAMEL4	withdrawn -> S1	B		CAMEL; Stage 1	
SP-000425	22.078	058		3.4.1	rel-5	Inclusion of Mid call event	approved	B	5.0.0	CAMEL; Stage 1	
SP-000425	22.078	059		3.4.1	rel-5	Inclusion of flexible tone injection	approved	B	5.0.0	CAMEL; Stage 1	
SP-000374	22.078	060		3.4.1	R99	GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2)	approved	F	3.5.0	CAMEL; Stage 1	
SP-000425	22.078	061		3.4.1	rel-5	GPRS AC/ACR alignment of shared data volume control (Stage 1 vs. 2)	approved	C	5.0.0	CAMEL; Stage 1	
SP-000457	22.078	062	1	3.4.1	R99	Alignment with stage 2 & 3, and editorial clarification	Postponed to SP-10	F		CAMEL; Stage 1	
SP-000425	22.078	064		3.4.1	rel-5	Transport of Charging Information to the Home Network	approved	B	5.0.0	CAMEL; Stage 1	
SP-000377	22.091	002		3.0.1	R99	CR on CLI presentation modifications	approved	F	3.1.0	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	
SP-000375	22.097	003		3.1.0	R99	Interaction with Multicall	approved	F	3.2.0	Multiple Subscriber Profile (MSP); Stage 1	
SP-000383	22.101	040		4.0.0	rel-4	Multimedia messaging	approved	B	4.1.0	UMTS Service principles	
SP-000383	22.101	041		4.0.0	rel-4	Service Management requirements	approved	C	4.1.0	UMTS Service principles	
SP-000429	22.101	042		4.0.0	rel-5	General corrections and clarifications to 22.101 for Release 2000	Withdrawn	F		UMTS Service principles	
SP-000430	22.101	042	1	4.0.0	rel-4	General corrections and clarifications to 22.101 for Release 2000	approved	F	4.1.0	UMTS Service principles	
SP-000383	22.101	043		4.0.0	rel-5	Classification of services	approved	F	5.0.0	UMTS Service principles	
SP-000383	22.101	044		4.0.0	rel-5	IP multimedia services	approved	B	5.0.0	UMTS Service principles	
SP-000383	22.101	045		4.0.0	rel-5	IP multimedia session for Emergency call	approved	B	5.0.0	UMTS Service principles	
SP-000383	22.101	046		4.0.0	rel-4	Editorial changes to 22.101 for Release 2000	approved	D	4.1.0	UMTS Service principles	
SP-000429	22.101	047		4.0.0	rel-5	Numbering Principles	withdrawn	C		UMTS Service principles	
SP-000430	22.101	047	1	4.0.0	rel-4	Numbering Principles	approved	C	4.1.0	UMTS Service principles	
SP-000383	22.101	048		4.0.0	rel-4	Service evolution	approved	C	4.1.0	UMTS Service principles	
SP-000391	22.101	049		4.0.0	rel-4	Emergency Call	approved	D	4.1.0	UMTS Service principles	
SP-000405	22.101	050		4.0.0	rel-4	Text Conversation	approved	B	4.1.0	UMTS Service principles	
SP-000430	22.101	051		4.0.0	rel-5	IM Number portability	approved	C	5.0.0	UMTS Service principles	

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SP-000430	22.101	052		4.0.0	rel-5	Introduction of IM CN Subsystem	approved	F	5.0.0	UMTS Service principles	
SP-000383	22.101	053		4.0.0	rel-5	Subscription	approved	F	5.0.0	UMTS Service principles	
SP-000383	22.101	054		4.0.0	rel-5	Roaming	approved	F	5.0.0	UMTS Service principles	
SP-000379	22.101	055		3.10.0	R99	Handling of interactions between applications requiring the access to UE resources	withdrawn	F		UMTS Service principles	
SP-000379	22.101	056		3.10.0	R99	Handling of interactions between applications requiring the access to UE resources	approved	F	3.11.0	UMTS Service principles	
SP-000381	22.105	026		3.9.0	rel-4	Change of MExE name	approved	D	4.0.0	Services & Service capabilities	
SP-000389	22.105	027		3.9.0	rel-4	Bearer Modification without pre-notification	approved	B	4.0.0	Services & Service capabilities	
SP-000387	22.121	011		3.3.0	rel-4	VHE in R00 User Profile	approved	C	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000387	22.121	012		3.3.0	rel-4	VHE in R00	approved	C	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000381	22.121	013		3.3.0	rel-4	Change of MExE name	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000387	22.121	014		3.3.0	rel-4	Realisation of Application interface	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000387	22.121	015		3.3.0	rel-4	Synchronisation of distributed user profiles	approved	B	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000387	22.121	016		3.3.0	rel-4	Uniquely addressable user profiles	approved	B	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000387	22.121	017		3.3.0	rel-4	VASP indirect support of VHE	approved	D	4.0.0	Provision of Services in UMTS - The Virtual Home Environment - Stage 1	
SP-000426	22.129	013		3.3.0	R99	Removal of requirements for SoLSA support	approved	F	3.4.0	Handover Requirements between UMTS and GSM or other Radio Systems	
SP-000389	22.129	014		3.3.0	rel-4	Bearer Modification without pre-notification	approved	B	4.0.0	Handover Requirements between UMTS and GSM or other Radio Systems	
SP-000375	22.135	006		3.3.0	R99	Interaction with MSP	approved	F	3.4.0	Multicall Stage 1	
SP-000406	22.135	007		3.3.0	R99	Removal of the Requirement on Network to Tear Down Calls to Accept EC in Multicall	approved	F	3.4.0	Multicall Stage 1	
SP-000406	22.135	008		3.3.0	R99	Addition of Ncs_MT limitation to number of MPTY members	approved	F	3.4.0	Multicall Stage 1	
SP-000449	23.002	016		3.3.0	rel-5	Introduction of R00 Definitions from 23.821 into 23.002	Approved	B	5.0.0	Network Architecture	
SP-000449	23.002	017		3.3.0	rel-5	CR on functional elements	Approved	B	5.0.0	Network Architecture	
SP-000449	23.002	018		3.3.0	rel-5	CR on reference model	Approved	B	5.0.0	Network Architecture	
SP-000449	23.002	019		3.3.0	rel-5	CR on reference points	Approved	B	5.0.0	Network Architecture	
NP-000499	23.003	023	1	3.5.0	R99	Alignment of 23.003 with text from 25.401	approved	F	3.6.0	Numbering, Addressing and Identification	
NP-000499	23.008	030		3.3.0	R99	Deletion of "Barring of roaming" stored in the SGSN	approved	A	3.4.0	Organisation of subscriber data	
NP-000499	23.008	031		3.4.0	R99	Corrections of the description of BC allocation for VLR	approved	A	3.5.0	Organisation of subscriber data	
NP-000444	23.009	012	1	3.3.0	R99	Correction to transcoder handling for R99	approved	F	3.4.0	Handover procedures	
NP-000500	23.011	002		3.0.1	R99	SDL refresh	revised	D		Technical Realization of Supplementary Services - General Aspects	
NP-000556	23.011	002	1	3.0.1	R99	SDL refresh	approved	D	3.1.0	Technical Realization of Supplementary Services - General Aspects	
NP-000499	23.016	016		3.5.0	R99	Correction to Delete Subscriber Data	approved	F	3.6.0	Subscriber data management - Stage 2	
NP-000499	23.018	053		3.5.0	R99	Correction of connector numbering in process ICH_MSC	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000496	23.018	054		3.5.0	R99	Correction of the SDL diagram for Pre-paging	approved	F	3.6.0	Basic Call Handling - Technical realisation	

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NP-000545	23.018	055	4	3.5.0	rel-4	Inclusion of Call Hold in Basic Call Handling	approved	C	4.0.0	Basic Call Handling - Technical realisation	
NP-000483	23.018	056		3.5.0	R99	Correction to Process ICH_VLR	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000483	23.018	057	3	3.5.0	R99	Handling of the Call Diversion Treatment Indicator	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000499	23.018	059		3.5.0	R99	Corrections to procedure obtain routeing address	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000499	23.018	060		3.5.0	R99	Corrections to process ICH_VLR	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000483	23.018	061	2	3.5.0	R99	Update of CAMEL References	approved	F	3.6.0	Basic Call Handling - Technical realisation	
NP-000483	23.018	063	1	3.5.0	R99	Correction of Obtain_Routeing_Address for the reconnect case	approved	A	3.6.0	Basic Call Handling - Technical realisation	
TP-000143	23.039	002		3.1.0	R99	Clarification of SC to SME protocol reference information.	approved	F	3.2.0	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	
TP-000144	23.040	016		4.0.0	rel-4	Presence of TP-PI	approved	F	4.1.0	Technical realisation of Short Message Service	
TP-000144	23.040	017		4.0.0	rel-4	Big endian integer representation	approved	D	4.1.0	Technical realisation of Short Message Service	
TP-000144	23.040	018		4.0.0	rel-4	SMS Address fields section needs clarification	approved	B	4.1.0	Technical realisation of Short Message Service	
TP-000144	23.040	019		4.0.0	rel-4	User prompt indication	approved	B	4.1.0	Technical realisation of Short Message Service	
TP-000143	23.041	005		3.2.0	R99	Defining Assisted GPS Broadcast Identifiers	approved	A	3.3.0	Technical Realization of Cell Broadcast Service	
TP-000143	23.057	010		3.2.0	R99	Storage of user private data in the user profile in the network	approved	F	3.3.0	Mobile Station Application Execution Environment (MExE)	
TP-000143	23.057	011		3.2.0	R99	Correction of UAProf tags	approved	F	3.3.0	Mobile Station Application Execution Environment (MExE)	
TP-000143	23.057	012		3.2.0	R99	WAP UAProf URL correction	approved	F	3.3.0	Mobile Station Application Execution Environment (MExE)	
SP-000448	23.060	147	3	3.4.0	R99	Change of the Cell update procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	170	0	3.4.0	R99	DTM: simultaneous LAU and RAU procedures on an SDCCH	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	171	1	3.4.0	R99	DTM: reuse of the GPRS Suspension procedure in cells with no DTM capabilities	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	172	1	3.4.0	R99	DTM: download of the IMSI from the SGSN to the BSC	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	173	0	3.4.0	R99	CS Paging procedure in UMTS	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	174	0	3.4.0	R99	Clarification on P-TMSI and P-TMSI signature at Detach	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	175	1	3.4.0	R99	Serving RNS Relocation Procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	176	1	3.4.0	R99	DRX and MS network capabilities within UMTS	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	177	1	3.4.0	R99	Compatibility GTPv0/GTPv1 in case of SGSN change	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000448	23.060	178	2	3.4.0	R99	Correction on Iu Release Procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	

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SP-000448	23.060	182	1	3.4.0	R99	Removal of PDP type OSP:IHOSS in R99	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
SP-000487	23.060	184	2	3.4.0	R99	Clarification to Service Request procedure	Approved	F	3.5.0	General Packet Radio Service (GPRS) Service description; Stage 2	
NP-000483	23.072	004		3.2.0	R99	Transfer of Procedure Check_CD_SII2 to TS 23.078	approved	F	3.3.0	Call Deflection Supplementary Service - Stage 2	
NP-000483	23.072	005		3.2.0	R99	Handling of the Call Diversion Treatment Indicator	approved	F	3.3.0	Call Deflection Supplementary Service - Stage 2	
NP-000456	23.078	134	4	3.5.0	R99	Interworking of Call Forwardings and new CAMEL3 trigger detection points	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	137	4	3.5.0	R99	E-parameter handling of distinct CAP dialogues/TDPs	approved	F	3.6.0	CAMEL Stage 2	
NP-000459	23.078	181	2	3.5.0	R99	Indication of Network requested PDP Context in Initial DPGPRS message	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	185	1	3.5.0	R99	Addition of the Handle_FCI_GPRS procedure	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	186		3.5.0	R99	Correction to Procedure CAMEL_ICH_MSC_INIT	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	187	1	3.5.0	R99	Transfer of Procedure Check_CD_SII2 from TS 23.072	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	188	2	3.5.0	R99	Update of References for the Location Information IE	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	190		3.5.0	R99	Removal of duplicate SGSN address/number from IDP-GPRS	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	191		3.5.0	R99	Clean-up the Monitoring state User Interaction	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	192		3.5.0	R99	Editorial corrections and enhancements	approved	D	3.6.0	CAMEL Stage 2	
NP-000456	23.078	193	1	3.5.0	R99	GPRS Change of Position Procedure for Session and Context	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	194	3	3.5.0	R99	Corrections on GPRS	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	198	3	3.5.0	R99	Location Number GPRS	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	200	7	3.5.0	R99	ACR/AC supervision for GPRS	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	201	1	3.5.0	R99	Correction to Proceure CAMEL_Modify_CUG_Info	approved	F	3.6.0	CAMEL Stage 2	
NP-000456	23.078	203	1	3.5.0	R99	Move of processing rules for GPRS context.	approved	D	3.6.0	CAMEL Stage 2	
NP-000457	23.078	204		3.5.0	R99	Interaction with CUG	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	205	1	3.5.0	R99	Handling of the Call Diversion Treatment Indicator	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	206	1	3.5.0	R99	GPRS location information in GPRSEventSpecificInformation	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	207	1	3.5.0	R99	Removal of NPI check in DP Analyzed_Information	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	208	2	3.5.0	R99	SDL modelling and overlapping dialogue case	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	209		3.5.0	R99	Correction CAMEL_MT_GMSC_INIT	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	213	1	3.5.0	R99	Correction of MO-SMS SDL's	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	215		3.5.0	R99	Correction to description of DP Collected_Info	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	216	1	3.5.0	R99	Introduction of Guard Timer for GPRS TCAP dialogue handling	approved	F	3.6.0	CAMEL Stage 2	
NP-000459	23.078	217		3.5.0	R99	PDP establishment	approved	F	3.6.0	CAMEL Stage 2	
NP-000457	23.078	218	1	3.5.0	R99	Clarification of description of number comparison for dialled services	approved	D	3.6.0	CAMEL Stage 2	
NP-000457	23.078	219		3.5.0	R99	Correction to Initial DP SMS Information Flow	approved	F	3.6.0	CAMEL Stage 2	
NP-000581	23.078	220		3.5.0	R99	Correction to the missing connection in SDL gsmSSF	approved	F	3.6.0	CAMEL Stage 2	
NP-000499	23.079	015		3.5.0	R99	Sheet 1 of Procedure OR_HLR_CF	approved	F	3.6.0	Support of Optimal Routeing - Phase 1 - Stage 2	

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NP-000500	23.082	008		3.2.0	R99	SDL refresh	revised	D		Call Forwarding (CF) Supplementary Services - Stage 2	
NP-000556	23.082	008	1	3.2.0	R99	SDL refresh	approved	D	3.3.0	Call Forwarding (CF) Supplementary Services - Stage 2	
NP-000500	23.083	004		3.1.0	R99	SDL refresh	revised	D		Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	
NP-000556	23.083	004	1	3.1.0	R99	SDL refresh	approved	D	3.2.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	
NP-000545	23.083	005	1	3.2.0	R-4	Inclusion of call hold in basic call handling	approved	D	4.0.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	
NP-000500	23.084	002		3.1.0	R99	SDL refresh	revised	D		MultiParty (MPTY) Supplementary Service - Stage 2	
NP-000556	23.084	002	1	3.1.0	R99	SDL refresh	approved	D	3.2.0	MultiParty (MPTY) Supplementary Service - Stage 2	
NP-000500	23.085	001		3.0.1	R99	SDL refresh	revised	D		Closed User Group (CUG) Supplementary Service - Stage 2	
NP-000556	23.085	001	1	3.0.1	R99	SDL refresh	approved	D	3.1.0	Closed User Group (CUG) Supplementary Service - Stage 2	
NP-000500	23.086	001		3.0.1	R99	SDL refresh	revised	D		Advice of Charge (AoC) Supplementary Service - Stage 2	
NP-000556	23.086	001	1	3.0.1	R99	SDL refresh	approved	D	3.1.0	Advice of Charge (AoC) Supplementary Service - Stage 2	
NP-000500	23.087	001		3.0.1	R99	SDL refresh	revised	D		User-to-User Signalling (UUS) - Stage 2	
NP-000556	23.087	001	1	3.0.1	R99	SDL refresh	approved	D	3.1.0	User-to-User Signalling (UUS) - Stage 2	
NP-000500	23.088	002		3.1.0	R99	SDL refresh	revised	D		Call Barring (CB) Supplementary Service - Stage 2	
NP-000556	23.088	002	1	3.1.0	R99	SDL refresh	approved	D	3.2.0	Call Barring (CB) Supplementary Service - Stage 2	
NP-000500	23.090	002		3.1.0	R99	SDL refresh	revised	D		Unstructured Supplementary Service Data (USSD) - Stage 2	
NP-000556	23.090	002	1	3.1.0	R99	SDL refresh	approved	D	3.2.0	Unstructured Supplementary Service Data (USSD) - Stage 2	
NP-000500	23.091	002		3.1.0	R99	SDL refresh	revised	D		Explicit Call Transfer (ECT) Supplementary Service - Stage 2	
NP-000556	23.091	002	1	3.1.0	R99	SDL refresh	approved	D	3.2.0	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	
NP-000483	23.093	003	1	3.1.0	R99	Handling of the Call Completion Treatment Indicator	approved	F	3.2.0	Call Completion to Busy Subscriber (CCBS) - Stage 2	
NP-000483	23.093	004		3.1.0	R99	Handling of the Call Diversion Treatment Indicator	approved	F	3.2.0	Call Completion to Busy Subscriber (CCBS) - Stage 2	
NP-000481	23.094	002		3.1.0	R99	Correction of the wrong Service Code	approved	F	3.2.0	Follow Me Stage 2	
SP-000450	23.107	026	2	3.3.0	R99	Attribute and parameter	Approved	F	3.4.0	Quality of Service, Concept and Architecture	
SP-000450	23.107	027	1	3.3.0	R99	Informational content in clause 6.2	Approved	F	3.4.0	Quality of Service, Concept and Architecture	
SP-000450	23.107	029	2	3.3.0	R99	Traffic class editorial corrections	Approved	F	3.4.0	Quality of Service, Concept and Architecture	
SP-000451	23.121	056		3.3.0	rel-5	Architectural Principles for Release 2000	Approved	B	5.0.0	Architecture Requirements for release 99	

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SP-000451	23.121	060	2	3.3.0	R99	Correction to Data Retrieve protocol stacks endpoints	Approved	F	5.0.0	Architecture Requirements for release 99	
SP-000451	23.121	062	2	3.3.0	R99	Correction to Data Retrieve protocol stacks endpoints	Approved	F	3.4.0	Architecture Requirements for release 99	
NP-000443	23.122	009	2	3.3.0	R99	Clarifications of the PLMN Selection procedures for UMTS and COMPACT.	approved	F	3.4.0	Non Access Stratum functions related to Mobile Station (MS) in idle mode	
SP-000452	23.127	011	1	3.2.0	rel-4	Change of TS 23.127 title for version 4.0 and up	Approved	D	4.0.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	012		3.1.0	R99	CR on Parlay-OSA alignment: basic service interface	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	013		3.1.0	R99	CR on Parlay-OSA alignment: initial contact interfaces	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	014		3.1.0	R99	CR on Parlay-OSA alignment : access SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	015		3.1.0	R99	CR on Parlay-OSA alignment: load manager SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	016		3.1.0	R99	CR on Parlay-OSA alignment: fault manager SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	017		3.1.0	R99	CR on Parlay-OSA alignment: service factory SCF	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
SP-000452	23.127	018		3.1.0	R99	CR on Parlay-OSA alignment: authentication interface	Approved	F	3.2.0	Virtual Home Environment - Stage 2	
NP-000559	23.135	002	4	3.0.0	R99	Requirement on Network to Tear Down Calls to Accept Emergency Calls in Multicall	approved	F	3.1.0	Multicall - Stage 2	
NP-000545	23.135	003	1	3.0.0	rel-4	Inclusion of call hold in basic call handling	approved	D	4.0.0	Multicall - Stage 2	
NP-000495	23.135	004		3.0.0	R99	Correction to MT_Multicall SDL	revised	F		Multicall - Stage 2	
NP-000559	23.135	004	1	3.0.0	R99	Correction to MT_Multicall SDL	approved	F	3.1.0	Multicall - Stage 2	
TP-000144	23.140	001		3.0.1	rel-4	Set of mandatory media formats for MMS	approved	B	4.0.0	Multimedia Messaging Service (MMS)	
NP-000476	23.146	001		4.0.0	rel-4	Correction of SDL Diagrams	approved	F	4.1.0	Technical realisation of facsimile Group 3 service - non-transparent	
NP-000552	23.146	002		4.0.0	rel-4	Modification from V.25bis to V.250	approved	F	4.1.0	Technical realisation of facsimile Group 3 service - non-transparent	
NP-000543	23.910	009		3.1.0	R99	Cleanup of RAB parameter setting	approved	F	3.2.0	Circuit Switched Data Bearer Services	
NP-000468	23.910	010		3.1.0	rel-4	Transparent 32kbit/s data rate with I.460 rate adaptation	approved	A	4.0.0	Circuit Switched Data Bearer Services	
NP-000468	23.910	011		3.1.0	R99	Transparent 32kbit/s data rate with I.460 rate adaptation	approved	F	3.2.0	Circuit Switched Data Bearer Services	
NP-000475	23.910	012		3.1.0	R99	Deletion of UMTS NT-RT FAX from R'99	approved	F	3.2.0	Circuit Switched Data Bearer Services	
NP-000543	23.910	013		3.1.0	rel-4	Cleanup of RAB parameter setting	approved	A	4.0.0	Circuit Switched Data Bearer Services	
NP-000542	23.910	014		3.1.0	R99	3.1kHz multimedia at 33.6kbit/s	approved	F	3.2.0	Circuit Switched Data Bearer Services	
NP-000543	23.910	015		3.1.0	rel-4	Delivery of erroneous SDUs parameter value	approved	A	4.0.0	Circuit Switched Data Bearer Services	
NP-000543	23.910	016		3.1.0	R99	Delivery of erroneous SDUs parameter value	approved	F	3.2.0	Circuit Switched Data Bearer Services	
NP-000542	23.910	017		3.1.0	rel-4	3.1kHz multimedia at 33.6kbit/s	approved	A	4.0.0	Circuit Switched Data Bearer Services	
NP-000443	24.007	013	3	3.4.0	R99	SAPs and Service primitives for UMTS, PS mode.	approved	F	3.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	
NP-000443	24.007	018		3.4.0	R99	Protocol discriminator value for UE special conformance testing functions	approved	F	3.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	
NP-000443	24.007	019	1	3.4.0	R99	Correction of send sequence number method applied protocols	approved	F	3.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	
NP-000443	24.007	020		3.4.0	R99	Editorial corrections	approved	F	3.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	
NP-000441	24.007	021		3.4.0	R99	Protocol Discriminator for DTM (simple class A)	approved	F	3.5.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	
NP-000448	24.008	073	5	3.5.0	rel-4	CC Enhancements for Codec Selection	approved	B	4.0.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	229	1	3.4.1	R99	P-TMSI signature handling	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	

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NP-000445	24.008	230	1	3.4.1	R99	Network Authentication Failure	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	233	1	3.4.1	R99	DRX IE as mandatory IE for RAU	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	235		3.4.1	R99	New cause for Modify PDP Context Reject	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	236	2	3.4.1	R99	Reaction to duplicated PDP context activation	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	238	1	3.4.1	R99	Editorial Modification on SM state transition model	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000440	24.008	242		3.4.1	R99	Wrong reference after 04.08 split	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	243		3.4.1	R99	Editorial correction of figure in QoS IE	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000436	24.008	244	2	3.4.1	R99	Clarification to Service Request procedure	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000447	24.008	245	3	3.5.0	rel-4	Emergency Call Additions	approved	B	4.0.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000438	24.008	247		3.4.1	R99	Deletion of references to OSP:IHOSS for R99	approved	A	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	248	1	3.4.1	R99	Editorial corrections	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000439	24.008	249		3.4.1	R99	Missing P-TMSI reallocation after Attach or RAU	approved	A	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	251	2	3.4.1	R99	Introduction of 3G Radio Access Technology capabilities in the MS Radio Access Capability IE	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000445	24.008	252		3.4.1	R99	Modifications to the authentication failure procedure	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000442	24.008	254	1	3.4.1	R99	3.1 kHz multimedia calls at 33.6 kbit/s data rate	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000443	24.008	255	3	3.4.1	R99	Duplicated PDP context activation and clarification of TI related issues.	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	

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NP-000446	24.008	260		3.4.1	R99	MS Classsmark 3 Tidy-up	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000445	24.008	261		3.4.1	R99	Correction of the storage of the ciphering key	approved	F	3.5.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	
NP-000440	24.011	008		3.3.0	R99	Corrections of CP/RP-DATA IE lengths	approved	A	3.4.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	
NP-000540	24.022	005	1	3.3.0	R99	Relevance of GSM specific BC-IE parameters for negotiating RLP version in UMTS	approved	F	3.4.0	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	
NP-000488	24.080	005	1	3.3.0	R99	Message type: Alignment to 24.007 and 24.008	approved	F	3.4.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	
NP-000492	24.080	006		3.3.0	R99	Addition of error type description for PositionMethodFailure	approved	A	3.4.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	
RP-000394	25.101	63		3.3.1	R99	Corrections to DL compressed mode tests in TS 25.101	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	64		3.3.1	R99	Combining of TPC commands in soft handover	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	65		3.3.1	R99	Clarifications for power steps in RACH/CPCH message transmission	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	66		3.3.1	R99	Editorial corrections for TS 25.101	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	67		3.3.1	R99	Corrections to power control	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	68		3.3.1	R99	Corrections for compressed mode patterns	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	69		3.3.1	R99	Editorial modification for BTFD measurement channels	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	70		3.3.1	R99	Definition of period for frequency error	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	71		3.3.1	R99	Downlink power control, wind up effects	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	72		3.3.1	R99	Inclusion of OCNS definition for performance tests	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	73		3.3.1	R99	Removal of confidence levels	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	74		3.3.1	R99	Corrections to all tests with power control ON in TS 25.101	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	75		3.3.1	R99	Editorial modification to Annex A.5 of TS 25.101	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	76		3.3.1	R99	Tap magnitudes and phases for Birth-Death propagation conditions	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000394	25.101	77		3.3.1	R99	UE emission mask measurement filter definition correction for TS 25.101	approved	F	3.4.0	UE Radio transmission and reception (FDD)	

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RP-000394	25.101	78		3.3.1	R99	Handling of measurement uncertainties in UE radio conformance testing (FDD)	approved	F	3.4.0	UE Radio transmission and reception (FDD)	
RP-000395	25.102	32		3.3.0	R99	Performance requirements with TFCI decoding for TDD UE	approved	F	3.4.0	UE Radio transmission and reception (TDD)	
RP-000395	25.102	33		3.3.0	R99	Performance test for UE power control in downlink	approved	F	3.4.0	UE Radio transmission and reception (TDD)	
RP-000395	25.102	34		3.3.0	R99	Definition of period for frequency error	approved	F	3.4.0	UE Radio transmission and reception (TDD)	
RP-000395	25.102	35		3.3.0	R99	Handling of measurement uncertainties in UE radio conformance testing (TDD)	approved	F	3.4.0	UE Radio transmission and reception (TDD)	
RP-000396	25.104	49		3.3.0	R99	Correction to 25.104 ch. 6.6.3.6	approved	F	3.4.0	UTRA (BS) FDD; Radio transmission and reception	
RP-000396	25.104	50		3.3.0	R99	Corrections to spectrum mask	approved	F	3.4.0	UTRA (BS) FDD; Radio transmission and reception	
RP-000396	25.104	51		3.3.0	R99	Handling of measurement uncertainties in Base station conformance testing (FDD)	approved	F	3.4.0	UTRA (BS) FDD; Radio transmission and reception	
RP-000396	25.104	52		3.3.0	R99	Tap magnitudes and phases for Birth-Death propagation conditions	approved	F	3.4.0	UTRA (BS) FDD; Radio transmission and reception	
RP-000397	25.105	39		3.3.0	R99	Maximum frequency deviation for receiver performance.	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	40		3.3.0	R99	Corrections to spectrum mask	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	41		3.3.0	R99	Handling of measurement uncertainties in base station radio conformance testing (TDD)	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	42		3.3.0	R99	Performance requirements with TFCI decoding	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	43		3.3.0	R99	Inner Loop Power Control	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	44		3.3.0	R99	BS Transmit ON/OFF time mask for TDD-mode	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000397	25.105	45		3.3.0	R99	Definition of period for frequency error	approved	F	3.4.0	UTRA (BS) TDD: Radio transmission and reception	
RP-000398	25.113	5		3.2.0	R99	Alignment of EMC requirements.	approved	F	3.3.0	Base station EMC	
RP-000399	25.123	16		3.2.0	R99	Handling of measurement uncertainties in conformance testing (TDD) for RRM measurements	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	17		3.2.0	R99	Basestation Physical Channel BER Measurement	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	18		3.2.0	R99	Repetition Period of System Information	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	19		3.2.0	R99	RRC connection mobility in cell_FACH, cell_PCH and URA_PCH	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	20		3.2.0	R99	Basestation SIR Measurement	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	21		3.2.0	R99	UE SIR Measurement Accuracy	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	22		3.2.0	R99	UE TS ISCP range/mapping correction	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	

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RP-000399	25.123	23		3.2.0	R99	Alignment of TDD measurements for UE: SFN-CFN observed time difference	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	24		3.2.0	R99	UTRAN Transport Channel BLER	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	25		3.2.0	R99	Accuracy requirements for Node-B synchronisation	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000399	25.123	26		3.2.0	R99	Alignment of TDD measurements with FDD: GPS related measurements	approved	F	3.3.0	Requirements for support of radio resource management (TDD)	
RP-000400	25.133	36		3.2.0	R99	Corrections to definitions, symbols and abbreviations	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	37		3.2.0	R99	Handling of measurement uncertainties in Base station conformance testing (FDD) for RRM measurements	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	38		3.2.0	R99	Proposal for section 4	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	39		3.2.0	R99	Proposal for section 5	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	40		3.2.0	R99	Proposal for section 8	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	41		3.2.0	R99	Proposal for section 9	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	42		3.2.0	R99	Revision of requirement and range of measurement for CPCH	revised	B		Requirements for support of radio resource management (FDD)	
RP-000480	25.133	42		3.2.0	R99	Revision of requirement and range of measurement for CPCH	revised	B		Requirements for support of radio resource management (FDD)	
RP-000497	25.133	42	1	3.2.0	R99	Revision of requirement and range of measurement for CPCH	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	43		3.2.0	R99	Inclusion of UTRAN measurements in 25.133	revised	B		Requirements for support of radio resource management (FDD)	
RP-000480	25.133	43		3.2.0	R99	Inclusion of UTRAN measurements in 25.133	revised	B		Requirements for support of radio resource management (FDD)	
RP-000497	25.133	43	1	3.2.0	R99	Inclusion of UTRAN measurements in 25.133	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	44		3.2.0	R99	Proposal for section 7 and A.7	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	45		3.2.0	R99	Text proposal for section A.1, A.2 and A.3	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000400	25.133	46		3.2.0	R99	Proposal for section 6	approved	F	3.3.0	Requirements for support of radio resource management (FDD)	
RP-000470	25.141	38		3.2.0	R99	Corrections to spectrum mask	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	39		3.2.0	R99	Editorial corrections for TS 25.141	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	40		3.2.0	R99	Global In-Channel TX-Test for use as annex in 25.141	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	41		3.2.0	R99	Reference measurement channels	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	42		3.2.0	R99	Handling of measurement uncertainties in Base station conformance testing (FDD)	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	43		3.2.0	R99	Clarifications of modulation accuracy and code domain error tests for TD operation	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	44		3.2.0	R99	Corrections to spectrum mask measurement method	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	45		3.2.0	R99	Test model clarifications	approved	F	3.3.0	Base station conformance testing (FDD)	

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RP-000470	25.141	46		3.2.0	R99	Clarifications of modulation accuracy and code domain error tests for TD operation	Withdrawn	F		Base station conformance testing (FDD)	
RP-000470	25.141	47		3.2.0	R99	Clarification of applicability of environmental range spec in section 4	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	48		3.2.0	R99	Clarification of "confidence level of 95%" in section 4.1	approved	D	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	49		3.2.0	R99	Corrections to test models in TS 25.141	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000470	25.141	50		3.2.0	R99	Tap magnitudes and phases for Birth-Death propagation conditions	approved	F	3.3.0	Base station conformance testing (FDD)	
RP-000402	25.142	28		3.2.1	R99	Handling of measurement uncertainties in Base station conformance testing (TDD)	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	29		3.2.1	R99	Conformance test description for maximum output power	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	30		3.2.1	R99	Conformance test description for minimum transmit power	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	31		3.2.1	R99	Conformance test description for power control steps	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	32		3.2.1	R99	Conformance test description for spectrum emission mask	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	33		3.2.1	R99	Corrections to spectrum mask	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	34		3.2.1	R99	Conformance test description for modulation accuracy	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	35		3.2.1	R99	Conformance test description for blocking characteristics	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	36		3.2.1	R99	Conformance test description for performance requirements	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000402	25.142	37		3.2.1	R99	Conformance test description for spectrum emission mask	approved	F	3.3.0	Base station conformance testing (TDD)	
RP-000340	25.211	065	-	3.3.0	R99	Correction of reference	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	066	4	3.3.0	R99	Clarification of paging indicator mapping	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	068	-	3.3.0	R99	Editorial modification of the 25.211 about the CD/CA-ICH	approved	D	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	070	1	3.3.0	R99	Support of closed loop transmit diversity modes	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	071	-	3.3.0	R99	DPCH initialisation procedure	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	072	3	3.3.0	R99	Correction on indicators	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	074	-	3.3.0	R99	Correction of STTD for DPCH	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	075	-	3.3.0	R99	Clarification of first significant path	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000340	25.211	076	-	3.3.0	R99	Clarification of SCH transmitted by TSTD	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	

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RP-000340	25.211	077	1	3.3.0	R99	Clarification of FBI field	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (FDD)	
RP-000341	25.212	079	-	3.3.0	R99	Clarification of compressed mode terminology	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	085	1	3.3.0	R99	Editorial corrections in Turbo code internal interleaver section	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	086	1	3.3.0	R99	Clarification on DL slot format for compressed mode by SF/2	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	087	-	3.3.0	R99	Corrections	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	088	1	3.3.0	R99	Clarifications to TS 25.212	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	089	-	3.3.0	R99	Correction regarding DSCH	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	090	-	3.3.0	R99	Correction regarding CPCH	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	092	1	3.3.0	R99	Bit separation and collection for rate matching	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000341	25.212	093	-	3.3.0	R99	Puncturing Limit definition in WG1 specification	approved	F	3.4.0	Multiplexing and channel coding (FDD)	
RP-000342	25.214	110	4	3.3.0	R99	Downlink inner-loop power control in compressed mode	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	112	-	3.3.0	R99	Adding reference for power offset variation text in TS 25.214	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	113	-	3.3.0	R99	Combining TPC commands in soft handover	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	115	1	3.3.0	R99	Corrections to power control	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	116	-	3.3.0	R99	Corrections to 25.214	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	117	-	3.3.0	R99	Clarification to downlink power control	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	118	3	3.3.0	R99	Clarification of power control at maximum and minimum power	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	119	-	3.3.0	R99	Clarification of SSDT text	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	120	-	3.3.0	R99	Corrections to CL transmit diversity mode 1	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	121	1	3.3.0	R99	Clarification of SSDT ID code bit transmission order	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	122	1	3.3.0	R99	Clarification on RACH and CPCH subchannel definition	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	123	1	3.3.0	R99	DPCH initialisation procedure	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	124	-	3.3.0	R99	Clarification of closed loop mode TX diversity initialisation	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.214	127	2	3.3.0	R99	Uplink power control in compressed mode	approved	F	3.4.0	Physical layer procedures (FDD)	
RP-000342	25.215	067	-	3.3.0	R99	Insertion of UTRAN SIRerror measurement in 25.215	approved	F	3.4.0	Physical layer; Measurements (FDD)	
RP-000343	25.215	068	-	3.3.0	R99	Reporting of UTRAN Transmitted carrier power	approved	F	3.4.0	Physical layer; Measurements (FDD)	
RP-000343	25.215	070	-	3.3.0	R99	Clarification of UTRAN SIR measurement	approved	F	3.4.0	Physical layer; Measurements (FDD)	
RP-000343	25.215	071	-	3.3.0	R99	Clarification of first significant path	approved	F	3.4.0	Physical layer; Measurements (FDD)	
RP-000343	25.215	072	-	3.3.0	R99	Clarification of radio link set as the measured object	approved	F	3.4.0	Physical layer; Measurements (FDD)	
RP-000344	25.221	022	1	3.3.0	R99	Correction to midamble generation in UTRA TDD	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (TDD)	
RP-000344	25.221	026	2	3.3.0	R99	Some corrections for TS25.221	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (TDD)	
RP-000344	25.221	028	-	3.3.0	R99	Terminology regarding the beacon function	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (TDD)	
RP-000344	25.221	030	1	3.3.0	R99	TDD Access Bursts for HOV	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (TDD)	

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RP-000344	25.221	031	1	3.3.0	R99	Number of codes signalling for the DL common midamble case	approved	F	3.4.0	Physical channels and mapping of transport channels onto physical channels (TDD)	
RP-000345	25.222	040	1	3.3.0	R99	Update of TS 25.222	approved	F	3.4.0	Multiplexing and channel coding (TDD)	
RP-000345	25.222	041	1	3.3.0	R99	Editorial corrections in Turbo code internal interleaver section	approved	F	3.4.0	Multiplexing and channel coding (TDD)	
RP-000345	25.222	042	-	3.3.0	R99	Paging Indicator Terminology	approved	F	3.4.0	Multiplexing and channel coding (TDD)	
RP-000345	25.222	043	1	3.3.0	R99	Bit separation and collection for rate matching	approved	F	3.4.0	Multiplexing and channel coding (TDD)	
RP-000345	25.222	048	-	3.3.0	R99	Puncturing Limit definition in WG1 specification	approved	F	3.4.0	Multiplexing and channel coding (TDD)	
RP-000346	25.223	007	1	3.3.0	R99	Gain Factors for TDD Mode	approved	F	3.4.0	Spreading and modulation (TDD)	
RP-000346	25.223	014	-	3.3.0	R99	Synchronisation codes	approved	F	3.4.0	Spreading and modulation (TDD)	
RP-000347	25.224	019	1	3.3.0	R99	Gain Factors for TDD Mode	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	025	-	3.3.0	R99	Terminology regarding the beacon function	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	026	1	3.3.0	R99	Synchronisation of timing advance adjustment and timing deviation measurement	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	027	1	3.3.0	R99	CCTrCH UL/DL pairing for DL inner loop power control	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	028	1	3.3.0	R99	RACH timing in TDD mode	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	030	1	3.3.0	R99	TDD Access Bursts for HOV	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	032	-	3.3.0	R99	Removal of ODMA related abbreviations and correction of references	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000347	25.224	033	-	3.3.0	R99	Clarifications on the Out-of-sync handling for UTRA TDD	approved	F	3.4.0	Pphysical layer procedures (TDD)	
RP-000348	25.225	012	1	3.3.0	R99	Alignment of TDD measurements with FDD: GPS related measurements	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000348	25.225	013	1	3.3.0	R99	Alignment of TDD measurements with FDD:SFN-CFN observed time difference	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000348	25.225	014	-	3.3.0	R99	Clarification of the Timeslot ISCP measurements	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000348	25.225	015	-	3.3.0	R99	Terminology regarding the beacon function	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000348	25.225	016	-	3.3.0	R99	Removal of Physical Channel BER	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000348	25.225	017	-	3.3.0	R99	Update of TS25.225 due to recent change for FDD: Reporting of UTRAN TX carrier power	approved	F	3.4.0	Physical layer; Measurements (TDD)	
RP-000352	25.301	041		3.5.0	R99	RLC modes for SHCCH	approved	F	3.6.0	Radio Interface Protocol Architecture	
RP-000353	25.302	065		3.5.0	R99	Filtering period in case of periodical reporting	approved	F	3.6.0	Services provided by the physical layer	
RP-000353	25.302	066		3.5.0	R99	UE simultaneous Physical and Transport channel combinations for PDSCH and DSCH	approved	F	3.6.0	Services provided by the physical layer	
RP-000353	25.302	067		3.5.0	R99	Inclusion of SIR ERROR measurement	approved	F	3.6.0	Services provided by the physical layer	
RP-000353	25.302	068	1	3.5.0	R99	Simultaneous reception of PCCPCH and SCCPCH	approved	F	3.6.0	Services provided by the physical layer	
RP-000353	25.302	070		3.5.0	R99	Removal of puncturing limit from the transport format definition	approved	F	3.6.0	Services provided by the physical layer	
RP-000353	25.302	071		3.5.0	R99	Clarification of the Timeslot ISCP Measurements	approved	F	3.6.0	Services provided by the physical layer	
RP-000354	25.303	035	2	3.4.0	R99	SRNS relocation	approved	F	3.5.0	UE functions and inter-layer procedures in connected mode	
RP-000354	25.303	037		3.4.0	R99	Variable Rate Transmission	approved	F	3.5.0	UE functions and inter-layer procedures in connected mode	
RP-000354	25.304	035	2	3.3.0	R99	Paging channel selection	approved	F	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	

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RP-000355	25.304	037	1	3.3.0	R99	Editorial corrections	approved	F	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	
RP-000355	25.304	039		3.3.0	R99	HCS measurement rules	approved	F	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	
RP-000355	25.304	042	2	3.3.0	R99	Usage of Ec/N0 measurement quantity for cell ranking	approved	F	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	
RP-000355	25.304	044		3.3.0	R99	Correction and restructuring	approved	F	3.4.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	
RP-000356	25.305	020		3.2.0	R99	Alignment of FDD and TDD positioning methods and editorial changes	approved	F	3.3.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	
RP-000356	25.305	021	3	3.2.0	R99	Assisted GPS Procedures	approved	F	3.3.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	
RP-000356	25.305	022	2	3.2.0	R99	TDD/FDD alignment of OTDOA and GPS assisted positioning methods	approved	F	3.3.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	
RP-000356	25.305	023		3.2.0	R99	Clean-up	approved	F	3.3.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	
RP-000356	25.305	024		3.2.0	R99	Corrections from LCS Ad Hoc	approved	F	3.3.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	
RP-000357	25.321	047		3.4.0	R99	Movement of primitives text to the correct section	approved	F	3.5.0	Medium Access Control (MAC) Protocol Specification	
RP-000357	25.321	048		3.4.0	R99	Corrections to RACH procedure	approved	F	3.5.0	Medium Access Control (MAC) Protocol Specification	
RP-000357	25.321	049		3.4.0	R99	Clarification on the parameters of the MAC-RLC primitives	approved	F	3.5.0	Medium Access Control (MAC) Protocol Specification	
RP-000357	25.321	051	1	3.4.0	R99	Editorial Cleanup	approved	F	3.5.0	Medium Access Control (MAC) Protocol Specification	
RP-000358	25.322	059	1	3.3.0	R99	State variables after window change	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	060	4	3.3.0	R99	SDU discard	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	061	5	3.3.0	R99	General RLC corrections	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	066		3.3.0	R99	Editorial changes to RLC	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	067	4	3.3.0	R99	Correction to RLC window size range	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	068	2	3.3.0	R99	Window based polling	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	070	2	3.3.0	R99	General corrections to RLC	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	071		3.3.0	R99	State Transition in RLC Acknowledged Mode	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	073		3.3.0	R99	Clarification of the Length Indicators	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	

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RP-000358	25.322	076	1	3.3.0	R99	RLC corrections	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	077	1	3.3.0	R99	Corrections to reset procedure and length indicator definitions	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	078		3.3.0	R99	RLC Modes for SHCCH	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000358	25.322	079		3.3.0	R99	CCCH in UM RLC	approved	F	3.4.0	Radio Link Control (RLC) Protocol Specification	
RP-000359	25.323	009	3	3.2.0	R99	Clarification of PDCP Sequence Numbering	approved	F	3.3.0	Packet Data Convergence Protocol (PDCP) protocol	
RP-000359	25.323	011		3.2.0	R99	Clarification on how to handle invalid PDUs	approved	F	3.3.0	Packet Data Convergence Protocol (PDCP) protocol	
RP-000359	25.323	012	2	3.2.0	R99	Primitives required for SRNS relocation	approved	F	3.3.0	Packet Data Convergence Protocol (PDCP) protocol	
RP-000359	25.323	015		3.2.0	R99	Handling of invalid PDCP PDU sequence number	approved	F	3.3.0	Packet Data Convergence Protocol (PDCP) protocol	
RP-000360	25.324	005		3.1.0	R99	Corrections	approved	F	3.2.0	Radio Interface for Broadcast/Multicast Services	
RP-000361	25.331	356	3	3.3.0	R99	Clarification on multiplicity of PCH and PICH and S-CCPCH selection	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	403	3	3.3.0	R99	Parameters to be stored in the USIM	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	413	3	3.3.0	R99	Optimisation of Inter-system handover message	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	416	2	3.3.0	R99	Timing Advance in Handover Procedures	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	417	2	3.3.0	R99	Synchronisation of Timing Advance and Timing Deviation Measurement	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	418		3.3.0	R99	Downlink Physical Channels Per Timeslot	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	419		3.3.0	R99	TDD Mode DCH Reception in Cell DCH State	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	420	2	3.3.0	R99	Downlink Power Control During DTX in TDD Mode	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	421	1	3.3.0	R99	Paging Indicator Length Definition	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	422		3.3.0	R99	Updating & alignment of RRC containers & handover to UTRAN information transfer	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	424		3.3.0	R99	Default values for UE timers and counters	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	425	1	3.3.0	R99	Security mode control	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	426	1	3.3.0	R99	Corrections and Editorial updates to chapter 8	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	427		3.3.0	R99	Corrections and editorial updates to chapter 10	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	428		3.3.0	R99	Transition from CELL_DCH to CELL_PCH and URA_PCH state	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	

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RP-000361	25.331	430		3.3.0	R99	Assisted GPS Messaging and Procedures	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	431	2	3.3.0	R99	Corrections to Activation Time use	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	432		3.3.0	R99	Editorial Corrections to measurement reporting range	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	434	4	3.3.0	R99	Default DPCH offset value and DPCH offset	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000361	25.331	435	3	3.3.0	R99	RLC info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	437		3.3.0	R99	Clarification of the description of IE semantics in "RB with PDCP information"	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	438	1	3.3.0	R99	Editorial corrections on security	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	439		3.3.0	R99	Editorial correction to RB mapping info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	440	1	3.3.0	R99	Compressed mode configuration failure	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	441		3.3.0	R99	Gain factors for TDD	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	442		3.3.0	R99	Introduction of Default DPCH Offset Value in TDD	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	444	1	3.3.0	R99	Optimisation of handover to UTRAN command	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	445		3.3.0	R99	Editorial corrections	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	448	1	3.3.0	R99	Mapping of channelisation code	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	449	2	3.3.0	R99	DL TFCS Limitation	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	450		3.3.0	R99	SIB offset	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	451		3.3.0	R99	RRC CONNECTION RELEASE cause	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	452		3.3.0	R99	Addition of RACH TFCS	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	453	2	3.3.0	R99	Cell Identity	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	454		3.3.0	R99	Editorial Modifications	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	455	1	3.3.0	R99	TDD PRACH Power Control for Spreading Factor 8/16	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	456		3.3.0	R99	TDD CCTrCH Repetition Length Definition	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	457	1	3.3.0	R99	Reporting threshold of traffic volume measurements	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000362	25.331	459	2	3.3.0	R99	LCS GPS assistance data for SIB	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	

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RP-000362	25.331	461	1	3.3.0	R99	Support of cell update confirm on CCCH	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	462	1	3.3.0	R99	Max Window Size in RLC capabilities	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	463	3	3.3.0	R99	UE handling of CFN	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	464	1	3.3.0	R99	Correction of padding description in clause 12	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	465	1	3.3.0	R99	Window size in RLC info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	466	1	3.3.0	R99	TFC Control Duration	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	467		3.3.0	R99	System Information Block Tabular Information	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	469	1	3.3.0	R99	Frequency encoding in inter-system handover messages	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	470		3.3.0	R99	RRC message size optimisation regarding TFS parameters	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	471	2	3.3.0	R99	RACH selection	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	472		3.3.0	R99	DRX cycle lower limit	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	474		3.3.0	R99	Rx window size in RLC info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	476	1	3.3.0	R99	Corrections & optimisations regarding system information blocks of length 215..221	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	477	1	3.3.0	R99	Corrections on 8.1.1 resulting from RRC review at R2#14	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	478	1	3.3.0	R99	Corrections to the RRC connection release procedure	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	479	1	3.3.0	R99	New release cause for signalling connection re-establishment	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	480	1	3.3.0	R99	Correction to IE midamble shift and burst type	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	481	1	3.3.0	R99	Correction in RLC info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	483		3.3.0	R99	Description of CTCH occasions	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	485	1	3.3.0	R99	TDD CCTrCH UL/DL Pairing for Inner Loop Power Control	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000363	25.331	486	1	3.3.0	R99	DCCH and BCCH Signaling of TDD UL OL PC Information	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	487	1	3.3.0	R99	Broadcast SIBs for TDD UL OL PC Information	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	490	1	3.3.0	R99	CPCH corrections	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	492	3	3.3.0	R99	Corrections to Security IEs	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	

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RP-000364	25.331	494	1	3.3.0	R99	Corrections to parameters to be stored in the USIM	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	496		3.3.0	R99	Editorial corrections	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	497	2	3.3.0	R99	Physical Shared Channel Allocation procedure	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	498		3.3.0	R99	Correction to Transport Format Combination Control Message	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	499	1	3.3.0	R99	Usage of Cell Parameter ID	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	500		3.3.0	R99	RB description for SHCCH	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	501	1	3.3.0	R99	Use of LI in UM	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	502	1	3.3.0	R99	Minor Corrections to RRC Protocol Specification	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	503	1	3.3.0	R99	Correction to Cell Update Cause	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	504		3.3.0	R99	Correction on T307 definition	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	505		3.3.0	R99	Corrections to relative priorities in RRC Protocol	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	506		3.3.0	R99	Unification of Reconfiguration Procedures	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	507	1	3.3.0	R99	Changes to section 8.2 proposed at Paris RRC Ad Hoc	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	508		3.3.0	R99	Establishment Cause	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	509	1	3.3.0	R99	PRACH partitioning	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	510		3.3.0	R99	Editorial Correction on Active Set Update	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000364	25.331	511		3.3.0	R99	Editorial Correction regarding system information	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	512	1	3.3.0	R99	Clarification on Reporting Cell Status	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	513	1	3.3.0	R99	Editorial corrections on RRC Connection Establishment and Release procedures	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	514		3.3.0	R99	Gated Transmission Control Info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	515	1	3.3.0	R99	Cell selection/reselection parameters for SIB 3/4	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	516		3.3.0	R99	Implementation of Ec/N0 parameters and optimisation of SIB 11/12	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	517		3.3.0	R99	PRACH Info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	518	1	3.3.0	R99	Uplink DPCH power control info	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	

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RP-000365	25.331	519		3.3.0	R99	AICH power offset value range	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	520	2	3.3.0	R99	Direct paging of RRC connected UE in CELL_PCH/URA_PCH	postponed	F		Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	521		3.3.0	R99	Corrections to Sections 1-7	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	522		3.3.0	R99	Error handling for Uplink Physical Channel Control procedure	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	523		3.3.0	R99	Corrections to downlink outer loop power control in compressed mode	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	524	1	3.3.0	R99	Clarification on measurement procedure using compressed mode	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	525	1	3.3.0	R99	Updates to cell and URA update procedures based on RRC Ad Hoc	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	526	1	3.3.0	R99	Updates to RNTI allocation procedure based on RRC Ad Hoc	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	528		3.3.0	R99	PRACH constant value	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	530		3.3.0	R99	Corrections to the paging procedure	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	532	1	3.3.0	R99	Miscellaneous corrections and moving of text from 3G TS 25.304	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	533	1	3.3.0	R99	Message extensibility	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	534	1	3.3.0	R99	Additions to "State of RRC Procedure" in RRC Initialisation information, source RNC to target RNC	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000365	25.331	535	1	3.3.0	R99	Support of codec negotiation	approved	F	3.4.0	Radio Resource Control (RRC) Protocol Specification	
RP-000370	25.401	013	3	3.3.0	R99	Principles for functional distribution between SRNC and CRNC	approved	F	3.4.0	UTRAN Overall Description	
RP-000370	25.401	014		3.3.0	R99	Removal of UTRAN Identifier definition and reference made to TS 23.003	approved	F	3.4.0	UTRAN Overall Description	
RP-000370	25.401	015	1	3.3.0	R99	Delay performance requirements	approved	F	3.4.0	UTRAN Overall Description	
RP-000370	25.401	016		3.3.0	R99	Alignment of list of functions and cleaning of editorial notes	approved	F	3.4.0	UTRAN Overall Description	
RP-000370	25.401	017	1	3.3.0	R99	Layered architecture view	approved	F	3.4.0	UTRAN Overall Description	
RP-000371	25.402	007	1	3.2.0	R99	Corrections to the UE state in section 9	approved	F	3.3.0	Synchronisation in UTRAN Stage 2	
RP-000371	25.402	008	2	3.2.0	R99	Introduction of DOFF in TDD and CFN handling during hard handover	approved	F	3.3.0	Synchronisation in UTRAN Stage 2	
RP-000371	25.402	009	2	3.2.0	R99	TDD intercell synchronisation	approved	F	3.3.0	Synchronisation in UTRAN Stage 2	
RP-000372	25.412	005		3.4.0	R99	Updating RFC 1483 to RFC 2684	approved	F	3.5.0	UTRAN Iu interface signalling transport	
RP-000373	25.413	124	1	3.2.0	R99	Only resources related to Iu need to be released	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	125	1	3.2.0	R99	Values for paging cause need to be aligned with 25.331	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	126	1	3.2.0	R99	No new RABs at reconfiguration	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	127	1	3.2.0	R99	Faulty condition for SDU Error Ratio	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	128	1	3.2.0	R99	Clarification for mapping between RABs and DCH/DSCH/USCH.	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	

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RP-000373	25.413	129	2	3.2.0	R99	Cause value needed for relocation because of resource optimisation	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	130	1	3.2.0	R99	Handling or IEs marked with "Ignore and Notify" in RANAP Class 2 Procedures	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	131		3.2.0	R99	SAI in Direct transfer	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	132	1	3.2.0	R99	Correcting the presentation in RANAP to follow Specification Notation	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	133	2	3.2.0	R99	Correcting the references in RANAP	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	134	2	3.2.0	R99	Clarification of LAI and RAC setting in Initial UE message and UL Direct Transfer	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	135	1	3.2.0	R99	Correcting the conditions for GTP PDU sequence numbers	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	136	3	3.2.0	R99	Rules for RANAP on how IEs become known and clarification on EP knowledge	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	138		3.2.0	R99	object identifier value for RANAP	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	168	3	3.2.0	R99	Cause value needed for relocation	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	169		3.2.0	R99	User data before RAB ASSIGNMENT RESPONSE	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	170		3.2.0	R99	Clarification on re-assignment of Iu-signalling connection after Reset Resource procedure	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	171		3.2.0	R99	Clarification on list of Iu signalling connection identifiers within RESET RESOURCE ACKNOWLEDGE message	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	173		3.2.0	R99	Overlapping CN Broadcast Areas	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000373	25.413	174	1	3.2.0	R99	Usage of DRX Cycle Length Coefficient is missing	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	175	1	3.2.0	R99	Usage of Subflow SDU size	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	177	1	3.2.0	R99	Correction of SAPI values in RANAP ASN.1 code	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	178		3.2.0	R99	Wrong implementation of CR123 in 25.413 v 3.2.0	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	179	1	3.2.0	R99	Reference between unsuccessful Location Report and Location Reporting Control	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	181	1	3.2.0	R99	Handling of the situation when Relocation is not supported by target.	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	182		3.2.0	R99	Correction to range of repetition indicator	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	183		3.2.0	R99	New Abstract syntax error for wrong order or number or IEs	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000374	25.413	184		3.2.0	R99	Combined ASN.1 definition based on agreed CRs.	approved	F	3.3.0	UTRAN Iu interface RANAP signalling	
RP-000375	25.414	018	1	3.4.0	R99	UDP port number over Iu	approved	F	3.5.0	UTRAN Iu interface data transport & transport signalling	
RP-000375	25.414	020		3.4.0	R99	Addition of reference for usages of MTP3b on Iu	approved	F	3.5.0	UTRAN Iu interface data transport & transport signalling	
RP-000376	25.415	028		3.3.0	R99	Correction of Cause Indicator	approved	F	3.4.0	UTRAN Iu interface user plane protocols	
RP-000376	25.415	029	1	3.3.0	R99	Subflow SDUs in Payload fields	approved	F	3.4.0	UTRAN Iu interface user plane protocols	
RP-000376	25.415	030	2	3.3.0	R99	Selection of user data PDU type	approved	F	3.4.0	UTRAN Iu interface user plane protocols	
RP-000376	25.415	032	1	3.3.0	R99	Editorial correction of reference No	approved	D	3.4.0	UTRAN Iu interface user plane protocols	
RP-000376	25.415	034		3.3.0	R99	Value range of PDU type	approved	F	3.4.0	UTRAN Iu interface user plane protocols	
RP-000376	25.415	035		3.3.0	R99	Delivery of erroneous SDUs value alignment	approved	F	3.4.0	UTRAN Iu interface user plane protocols	
RP-000377	25.419	011		3.1.0	R99	Handling of Presence field	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	012	1	3.1.0	R99	Handling of IEs marked with "Ignore and Notify" in SABP Class 2 Procedures	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	

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RP-000377	25.419	014	1	3.1.0	R99	Criticality in tabular format of 25.419	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	015		3.1.0	R99	object identifier value for SBAP	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	016	3	3.1.0	R99	Clarification of Message Identifier	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	017	2	3.1.0	R99	Rules for SABP on how IEs become known and clarification on EP	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	018	2	3.1.0	R99	Correcting the references in SABP & other minor corrections.	approved	D	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	019	1	3.1.0	R99	Editorial Corrections in the presentation of SABP as per Specification Notation.	approved	D	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	020	2	3.1.0	R99	Clarification of the description and usage of Elementary Procedures.	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	021		3.1.0	R99	Correction to range of repetition indicator	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	022	1	3.1.0	R99	New Abstract syntax error for wrong order or number or IEs	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000377	25.419	023		3.1.0	R99	Combined ASN.1 definition based on agreed CRs.	approved	F	3.2.0	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	
RP-000378	25.420	008	1	3.1.0	R99	Bi-directional dedicated transport channels	approved	F	3.2.0	UTRAN Iur Interface: General Aspects and Principles	
RP-000379	25.423	145	2	3.2.0	R99	Clarification for Multi-DPCH cases	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	146	3	3.2.0	R99	Need to disable Timing advance	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	147	1	3.2.0	R99	Shared Channel Signalling correction	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	148	1	3.2.0	R99	UE Capabilities transfer SRNC to DRNC	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	149	2	3.2.0	R99	Alignment of DPCH parameters with WG1/WG2 in TDD	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	151	3	3.2.0	R99	Rules for RNSAP on how IEs become known and clarification on EP knowledge	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	152	1	3.2.0	R99	Maximum/minimum DL power settings	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	153	2	3.2.0	R99	UL/DL SIR target corrections	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	154	1	3.2.0	R99	Power reference point	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	156	2	3.2.0	R99	Introduction of DL Codes Not Supported cause value	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	157	1	3.2.0	R99	Introduction of a temporary failure: not expired CFN	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	158	1	3.2.0	R99	Maximum number of TBs in a TTI	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	159	1	3.2.0	R99	Handling of IEs marked with “Ignore and Notify” in class 2 procs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	160	1	3.2.0	R99	Corrections of diversity information	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	161	2	3.2.0	R99	Editorial Correction RNSAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	162	1	3.2.0	R99	Correction the value range of IB_SG_REP in RNSAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	163	1	3.2.0	R99	Clarification to the RL failure procedure	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	164	2	3.2.0	R99	Renaming UL interference	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	166	1	3.2.0	R99	compress mode	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000379	25.423	167		3.2.0	R99	object identifier value for RNSAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	168		3.2.0	R99	correction of errors in the ASN.1 part of RNSAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	169	2	3.2.0	R99	Correction to Burst Type IE and Midamble Shift IE in TDD messages	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	

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RP-000380	25.423	171	1	3.2.0	R99	BER at Uplink DTX for TDD	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	173	1	3.2.0	R99	TDD CCTrCH power control ambiguity	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	174		3.2.0	R99	Renaming of Timeslot ISCP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	176	1	3.2.0	R99	Correction to FDD DL Channelisation Code Number IE definition	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	178	1	3.2.0	R99	Initial DL transmission power allocation in DRNC	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	179	1	3.2.0	R99	Introduction of SRNC-Id in the RL SETUP REQUEST Message	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	180	1	3.2.0	R99	Missing Choice Tag in the RL RECONFIGURATION FAILURE Message	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	183	1	3.2.0	R99	Measurement alignment	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	184		3.2.0	R99	Clarification of usage of reporting objects in the RL restoration procedure	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	185	3	3.2.0	R99	Non-core Features in RNSAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	186	1	3.2.0	R99	Correction to RL Addition, Transmit Diversity Indicator	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	187		3.2.0	R99	Limited power increase chapter	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	188		3.2.0	R99	Measurement Grouping in the DRNC	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	189	1	3.2.0	R99	Remove Unnecessary use of the ProtocolIE-Container	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	190	1	3.2.0	R99	Correction to Compressed Mode	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	191	1	3.2.0	R99	Procedure Rejection in RNSAP due to Lack of Support on NBAP	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	192	1	3.2.0	R99	Support for CELL_FACH to CELL_DCH state transition	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000380	25.423	193		3.2.0	R99	RNSAP Support for switching from Cell_DCH to URA_PCH State	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	194		3.2.0	R99	Correction to range of repetition indicator	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	195		3.2.0	R99	New Abstract syntax error for wrong order or number or IEs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	196	2	3.2.0	R99	RNSAP Common IEs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	197	1	3.2.0	R99	Extensability RNSAP FDD IEs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	198	1	3.2.0	R99	RNSAP TDD IEs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	199		3.2.0	R99	Procedure Rejection in RNSAP due to Unknown Procedure ID	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000381	25.423	200	1	3.2.0	R99	Combined ASN.1 definition based on agreed CRs	approved	F	3.3.0	UTRAN Iur interface RNSAP signalling	
RP-000382	25.424	005		3.3.0	R99	Remove Draft in the title of the reference Q.2630.1 in 25.424	approved	F	3.4.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	
RP-000383	25.426	003	1	3.3.0	R99	AAL2 switching possibility	approved	F	3.4.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	
RP-000383	25.426	004		3.3.0	R99	Remove Draft in the title of the reference Q.2630.1 and Q.2150.2 in 25.426	approved	F	3.4.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	
RP-000383	25.426	006		3.3.0	R99	Additon of reference for usage of MTP3b on Iur	approved	F	3.4.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	
RP-000384	25.427	026	1	3.3.0	R99	Timing Deviation and Timing Adjustment Synchronisation	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	

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RP-000384	25.427	028	1	3.3.0	R99	Reserved TFI bits	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	029	1	3.3.0	R99	Transport connection synchronisation	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	031		3.3.0	R99	DSCH Corrections	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	032	1	3.3.0	R99	BER at Uplink DTX for TDD	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	033	1	3.3.0	R99	Node B knowledge of timing advance	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	034	1	3.3.0	R99	CRCI octet when number of TBs is equal to zero	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000384	25.427	035	3	3.3.0	R99	Editorial modification of 25.427	approved	F	3.4.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	
RP-000385	25.430	011	1	3.2.0	R99	Bi-directional dedicated transport channels	approved	F	3.3.0	UTRAN Iub Interface: General Aspects and Principles	
RP-000386	25.433	165	4	3.2.0	R99	Changes to NBAP to support the signaling of the 'DSCH DL signaling frame' from the CRNC to the Node B	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	168	2	3.2.0	R99	Clarification for Multi-DPCH cases	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	169	3	3.2.0	R99	Alignment of DPCH parameters with WG1/WG2 in TDD	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	170	1	3.2.0	R99	Node B communication context ID IE in Radio Link Setup Failure message	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	173	1	3.2.0	R99	Correction of Tabular Formats and Information Element definitions	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	174	1	3.2.0	R99	Corrections to RL Setup Failure description	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	175	3	3.2.0	R99	Rules for NBAP on how IEs become known and clarification on EP knowledge	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	176	1	3.2.0	R99	Maximum/minimum DL power settings	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	177	3	3.2.0	R99	Minimum power level	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	178	1	3.2.0	R99	Power reference point	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	180	2	3.2.0	R99	Introduction of DL Codes Not Supported cause value	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	181	1	3.2.0	R99	Power offset for PICH and AICH in Common Transport Channel Setup	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	182	1	3.2.0	R99	Ambiguous Resource Status Indication and consequences for Audit response	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	183	1	3.2.0	R99	Handling of two non supported non core functionalities	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	184	1	3.2.0	R99	Removal of paging procedure from NBAP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	185	2	3.2.0	R99	Alignment to RRC CRs 363 and 362	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	186	1	3.2.0	R99	Introduction of a temporary failure: not expired CFN	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	187	3	3.2.0	R99	NBAP Reset procedure	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	188	1	3.2.0	R99	Maximum number of TBs in a TTI	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000386	25.433	189	1	3.2.0	R99	Handling of IEs marked with "Ignore and Notify" in class 2 procs	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	190	3	3.2.0	R99	Iub Admission Control	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	191	1	3.2.0	R99	Corrections of diversity information	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	192	1	3.2.0	R99	Editorial Correction NBAP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	193		3.2.0	R99	Minor CPCH correction	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	

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RP-000387	25.433	194	2	3.2.0	R99	Renaming UL interference	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	195	1	3.2.0	R99	compress mode	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	196	1	3.2.0	R99	Clarification to the RL Failure procedure	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	197		3.2.0	R99	object identifier value for NBAP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	198		3.2.0	R99	correction of errors and misalignments in the ASN.1 part of NBAP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	199	2	3.2.0	R99	Correction of Burst Type IE and Midamble Shift IE in TDD messages	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	200	1	3.2.0	R99	DSCH Corrections	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	203	1	3.2.0	R99	BER at Uplink DTX for TDD	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	205	2	3.2.0	R99	Correction to RL Addition, RL Reconfiguration Prepare, and RL Configuration Request Transmit Diversity parameters	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	207	1	3.2.0	R99	TDD CCTrCH power control ambiguity	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	208		3.2.0	R99	Renaming of Timeslot ISCP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	211	1	3.2.0	R99	Correction to FDD DL Channelisation Code Number IE definition	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	214	1	3.2.0	R99	Resource status indication clarification	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	218	1	3.2.0	R99	Edditorial Correction in Tabular format for CPCH	approved	D	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	219		3.2.0	R99	Correction in Common measurement report message for CPCH	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000387	25.433	220	1	3.2.0	R99	Power Offset for AP-AICH, CD/CA-ICH and CSICH	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	221		3.2.0	R99	RACH Transport format Correction in TDD	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	222	1	3.2.0	R99	Measurement alignment	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	224	2	3.2.0	R99	Non-core Features in NBAP	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	225		3.2.0	R99	Limited power increase chapter	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	226	1	3.2.0	R99	Correction of UL-FP mode and Measurement filter coefficient ranges in tabular format	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	227		3.2.0	R99	Remove Unnecessary use of the ProtocolIE-Container	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	228		3.2.0	R99	Correction to Compressed Mode	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	233		3.2.0	R99	Editorial Correction - Min SF	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	234	3	3.2.0	R99	Update of RL-SETUP procedure text, addressing optional IE's.	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	235	1	3.2.0	R99	Physical Shared Channel procedure clarifications	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	236		3.2.0	R99	Clarification of the Resource Status Indication procedure text	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	237	1	3.2.0	R99	RL addition procedure text update.	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	238		3.2.0	R99	Procedure text proposal for optional IE in common transport channels	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	239		3.2.0	R99	New Abstract syntax error for wrong order or number or IEs	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	240	4	3.2.0	R99	NBAP Common IEs extensibility corrections	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	241	1	3.2.0	R99	NBAP FDD IE's extension capability	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	242	2	3.2.0	R99	Extensibility for NBAP-TDD-Ies	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	243	3	3.2.0	R99	Updated NBAP Sync RL Reconfiguration Procedure (Optional IEs	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000388	25.433	244		3.2.0	R99	procedure rejection in NBAP due to unknown procedure ID	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	

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RP-000388	25.433	246		3.2.0	R99	Correction to range of repetition indicator	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000389	25.433	247	3	3.2.0	R99	Updated NBAP UnSync RL Reconfiguration Procedure (Optional IEs)	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000389	25.433	248	1	3.2.0	R99	Combined ASN.1 definition based on agreed CRs	approved	F	3.3.0	UTRAN Iub interface NBAP signalling	
RP-000390	25.434	003		3.2.0	R99	Remove Draft in the title of the reference Q.2630.1 and Q.2150.2 in 25.434	approved	F	3.3.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	
RP-000391	25.435	022	3	3.3.0	R99	Changes to 25.435 required to support the signaling of the 'DSCH DL signaling frame' from the CRNC to the Node B	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000391	25.435	026	1	3.3.0	R99	Reserved TFI bits	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000391	25.435	027		3.3.0	R99	DSCH Corrections	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000391	25.435	028	2	3.3.0	R99	BER at Uplink DTX for TDD	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000391	25.435	029	3	3.3.0	R99	Node B knowledge of timing advance	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000391	25.435	030	2	3.3.0	R99	Pilot bit sending when unknown TFCI	approved	F	3.4.0	UTRAN Iub interface user plane protocols for CCH data streams	
RP-000366	25.922	004	2	3.2.0	R99	Clarification on RRC security and capability information transfer during handover to UTRAN	approved	F	3.3.0	Radio Resource Management Strategies	
RP-000366	25.922	006		3.2.0	R99	Variable Rate Transmission	approved	F	3.3.0	Radio Resource Management Strategies	
RP-000367	25.925	003		3.1.0	R99	Corrections	approved	F	3.2.0	Radio Interface for Broadcast/Multicast Services	
RP-000368	25.926	010	1	3.1.0	R99	TDD DL Physical Channel Capability per Timeslot	approved	F	3.2.0	UE Radio Access capabilities definition	
RP-000368	25.926	012		3.1.0	R99	Change to UE Capability definition	approved	F	3.2.0	UE Radio Access capabilities definition	
RP-000368	25.926	013		3.1.0	R99	Physical parameter changes	approved	F	3.2.0	UE Radio Access capabilities definition	
RP-000392	25.931	001	1	3.0.0	R99	Corrections to a minor mistake present in the spec.	approved	F	3.1.0	UTRAN Functions, examples on signalling procedures	
RP-000392	25.931	002	1	3.0.0	R99	Introduction of new scenarios related to channel switching over Iur	approved	F	3.1.0	UTRAN Functions, examples on signalling procedures	
RP-000392	25.931	003	1	3.0.0	R99	Correction of timing and message name	approved	F	3.1.0	UTRAN Functions, examples on signalling procedures	
RP-000349	25.944	002	2	3.1.0	R99	TDD related changes for TR25.944	approved	F	3.2.0	Channel coding and multiplexing examples	
SP-000395	26.110	001		3.0.1	rel-4	CS Multimedia Codec specification for real time text conversation	approved	B	4.0.0	Codec for Circuit switched Multimedia Telephony Service; General Description	
SP-000396	26.111	006		3.2.0	R99	MPEG-4 interface to multiplex	approved	F	3.3.0	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	
SP-000397	26.132	001		3.0.0	R99	Handheld hands-free Test Setup	approved	F	3.1.0	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	
NP-000540	27.001	024	1	4.0.0	rel-4	UMTS clean-up	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000540	27.001	025		3.5.0	R99	Relevance of GSM specific BC-IE parameters for negotiating RLP version in UMTS	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000543	27.001	026		3.5.0	R99	Cleanup of RAB parameter setting	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	

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NP-000543	27.001	027		4.0.0	rel-4	Cleanup of RAB parameter setting	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000540	27.001	028		4.0.0	rel-4	Relevance of GSM specific BC-IE parameters for negotiating RLP version in UMTS	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000475	27.001	029		3.5.0	R99	Deletion of UMTS NT-RT FAX from R'99	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000540	27.001	030	1	3.5.0	R99	UMTS clean-up	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000551	27.001	031		3.5.0	R99	32kbit/s UDI/RDI multimedia	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000551	27.001	032		4.0.0	rel-4	32kbit/s UDI/RDI multimedia	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000542	27.001	034		4.0.0	rel-4	3.1kHz multimedia at 33.6kbit/s	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000543	27.001	035		3.5.0	R99	Delivery of erroneous SDUs parameter value	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000540	27.001	036		4.0.0	rel-4	Clarification related to RCR	approved	D	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000552	27.001	037		3.5.0	R99	Modification from V.25bis to V.250	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000552	27.001	038		4.0.0	rel-4	Modification from V.25bis to V.250	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000542	27.001	039		3.5.0	R99	3.1kHz multimedia at 33.6kbit/s	approved	F	3.6.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000543	27.001	040		4.0.0	rel-4	Delivery of erroneous SDUs parameter value	approved	A	4.1.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	
NP-000475	27.002	005		3.4.0	R99	Deletion of UMTS NT-RT FAX from R'99	approved	F	3.5.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	
NP-000552	27.002	006		3.4.0	R99	Modification from V.25bis to V.250	approved	F	3.5.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	
NP-000552	27.002	007		3.4.0	rel-4	Modification from V.25bis to V.250	approved	A	4.0.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	
NP-000552	27.003	006		3.4.0	R99	Modification from V.25bis to V.250	approved	F	3.5.0	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	
TP-000143	27.007	041		3.5.0	R99	TE software implementations must take account of extra parameters	approved	F	3.6.0	AT command set for 3G User Equipment (UE)	
TP-000143	27.007	042		3.5.0	R99	APN presentation	approved	F	3.6.0	AT command set for 3G User Equipment (UE)	
TP-000144	27.007	043		3.5.0	rel-4	Introduction of a new AT command +CUUS1 to manage User-to-User Information element	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	
TP-000144	27.007	044		3.5.0	rel-4	Indication of priority and/or sub-address in the unsolicited result code CCWA	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	
TP-000144	27.007	045		3.5.0	rel-4	eMLPP SIM Commands	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	

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TP-000144	27.007	046		3.5.0	rel-4	VBS, VGCS SIM Commands	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	
TP-000144	27.007	047		3.5.0	rel-4	Extension of dial command for VBS and VGCS	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	
TP-000144	27.007	048		3.5.0	rel-4	Introduction of a new AT command +COTDI to manage Originator-to-dispatcher information element	approved	B	4.0.0	AT command set for 3G User Equipment (UE)	
TP-000143	27.103	001	1	3.0.0	R99	Introduction of PUSH and TARGET	approved	F	3.1.0	Wide Area Network Synchronisation	
NP-000497	29.002	151		3.5.0	R99	AUTN and AUTS parameter length	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000485	29.002	152	1	3.5.1	R99	Clarifications for secure MAP transport	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000545	29.002	153	1	4.0.1	rel-4	Generalization of version handling text in subclause 18.2.4	approved	D	4.1.0	Mobile Application Part (MAP)	
NP-000497	29.002	154	3	3.5.2	R99	Clarification on Authentication Failure Report ack	approved	F	3.6.0	Mobile Application Part (MAP)	
Np-000490	29.002	156		3.5.1	R99	Aligning 29.002 with 25.413 (UTRAN Iu Interface RANAP Signalling)	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000499	29.002	157		3.5.1	R99	Deletion of Annex C	approved	A	3.6.0	Mobile Application Part (MAP)	
NP-000491	29.002	159		4.0.1	rel-4	Aligning 29.002 with 25.413 (UTRAN Iu Interface RANAP Signalling)	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000498	29.002	160		4.0.1	rel-4	AUTN and AUTS parameter length	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000498	29.002	161	2	4.0.1	rel-4	Clarification on Authentication Failure Report ack	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000483	29.002	162	1	3.5.1	R99	Correction on Location Information	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000484	29.002	163	1	4.0.1	rel-4	Correction on Location Information	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000483	29.002	165		3.5.1	R99	Removal of LSAIdentity from NoteMM-EventArg	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000483	29.002	173	2	3.5.1	R99	Optionality of parameters in GPRS-CSI	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000484	29.002	174	2	4.0.1	rel-4	Optionality of parameters in GPRS-CSI	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000492	29.002	175	1	3.5.1	R99	Correction to QoS indication	approved	A	3.6.0	Mobile Application Part (MAP)	
NP-000493	29.002	176	1	4.0.1	rel-4	Correction to QoS indication	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000490	29.002	177	1	3.5.1	R99	Clarification of use of Radio Resource Information	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000491	29.002	178	1	4.0.1	rel-4	Clarification of use of Radio Resource Information	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000556	29.002	179	1	3.5.1	R99	Correction to MSC-A handover SDLs	approved	D	3.6.0	Mobile Application Part (MAP)	
NP-000557	29.002	180	1	4.0.1	rel-4	Correction to MSC-A handover SDLs	approved	D	4.1.0	Mobile Application Part (MAP)	
NP-000557	29.002	180	2	4.0.1	rel-4	Correction to MSC-A handover SDLs	approved	D	4.1.0	Mobile Application Part (MAP)	
NP-000484	29.002	182		4.0.1	rel-4	Removal of LSAIdentity from NoteMM-EventArg	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000492	29.002	183		3.5.1	R99	LCS Support for CAMEL Phase 3	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000493	29.002	184		4.0.1	rel-4	LCS Support for CAMEL Phase 3	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000500	29.002	185		3.5.1	R99	Correction to MSC-A handover SDLs	revised	D		Mobile Application Part (MAP)	
NP-000556	29.002	185	1	3.5.1	R99	Correction to MSC-A handover SDLs	approved	D	3.6.0	Mobile Application Part (MAP)	
NP-000501	29.002	186		4.0.1	rel-4	Correction to MSC-A handover SDLs	revised	D		Mobile Application Part (MAP)	
NP-000557	29.002	186	1	4.0.1	rel-4	Correction to MSC-A handover SDLs	approved	D	4.1.0	Mobile Application Part (MAP)	
NP-000483	29.002	187		3.5.1	R99	Clarification for segmentation of D-CSI and SMS-CSI	approved	F	3.6.0	Mobile Application Part (MAP)	
NP-000484	29.002	188		4.0.1	rel-4	Clarification for segmentation of D-CSI and SMS-CSI	approved	A	4.1.0	Mobile Application Part (MAP)	
NP-000468	29.007	022		3.5.0	rel-4	Transparent 32kbit/s data rate with I.460 rate adaptation	approved	A	4.0.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000475	29.007	023		3.5.0	R99	Deletion of UMTS NT-RT FAX from R'99	approved	F	3.6.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000468	29.007	024		3.5.0	R99	Transparent 32kbit/s data rate with I.460 rate adaptation	approved	F	3.6.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	

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NP-000476	29.007	025		3.5.0	rel-4	Correction of incomplete part related to introduction of UMTS NT-RT FAX	approved	F	4.0.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000540	29.007	028		3.5.0	rel-4	Clarification related to RCR	approved	D	4.0.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000551	29.007	029		3.5.0	rel-4	32kbit/s UDI/RDI multimedia	approved	A	4.0.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000551	29.007	030		3.5.0	R99	32kbit/s UDI/RDI multimedia	approved	F	3.6.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	
NP-000490	29.010	006	1	3.2.0	R99	Clarification of use of Radio Resource Information	approved	F	3.3.0	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)	
NP-000499	29.010	007	1	3.2.0	R99	Corrections and updates to align with current R99 specs	approved	F	3.3.0	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)	
NP-000441	29.016	004	1	3.0.0	R99	Different SSNs for SGSN and VLR	approved	F	3.1.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	
NP-000441	29.018	010		3.3.0	R99	Reject cause in case of expiry of T6-1	approved	F	3.4.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	
NP-000489	29.060	105	1	3.5.0	R99	Race Conditions Avoidance	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	121		3.5.0	R99	Definition of TEID value in GTP-U header	approved	D	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	122	3	3.5.0	R99	Solution for race condition of GTP procedures	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	123	1	3.5.0	R99	Clarifications concerning the use of TEID in the Control Plane	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	124	1	3.5.0	R99	Editorial modifications concerning TEID Control Plane and TEID Data	approved	D	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	126	2	3.5.0	R99	Sequence number in signalling messages	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	127		3.5.0	R99	Clarification of the conditional information elements	approved	D	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	128	1	3.5.0	R99	Enhancement of MS Network capabirity and GPRS Ciphering Algorithm	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	129		3.5.0	R99	IPv6 support for Charging Gateway Address	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	130		3.5.0	R99	Signalling messages in GTP	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	

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NP-000536	29.060	131	1	3.5.0	R99	Security parameter transport in case of 2G-3G interworking	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	132	1	3.5.0	R99	Encoding of IMSI	approved	A	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	133		3.5.0	R99	Removal of IHOSS from GTP	approved	A	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	135		3.5.0	R99	Addition of MS Not Reachable Reason to Send Routing Information For GPRS Response	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	138	1	3.5.0	R99	Coding of TI in PDP Context	approved	A	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	139	1	3.5.0	R99	Clarifications on the use of TEID in the Control Plane	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	140		3.5.0	R99	Correction on the handling of the PDP Context at unsuccessful PDP Context modification	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000536	29.060	141	2	3.5.0	R99	Categorize Error indication as the GTP-U message	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	142		3.5.0	R99	Clarifications on the presence condition of TLLI/P-TMSI in SGSN Context request	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	143	2	3.5.0	R99	Correction on Reliable transmission of signalling messages	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	144		3.5.0	R99	Alignment of the description of tables for Identification Request and SGSN Context Request	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	145	1	3.5.0	R99	Correction to the SGSN Context transfer Request and response messages	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	146	2	3.5.0	R99	Correction to the SGSN Forward relocation Request and Response messages	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	147		3.5.0	R99	Clarification or the handling of response messages	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000489	29.060	148		3.5.0	R99	Clarification on SGSN context acknowledge message	approved	F	3.6.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	
NP-000472	29.061	014		3.3.0	R99	GPRS Mobile IP interworking	approved	F	3.4.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	
NP-000459	29.078	099	3	3.4.1	R99	Indication of Network requested PDP Context in Initial DP GPRS message	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	101		3.4.1	R99	CAP-GPRS-ReferenceNumber ASN.1 correction	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	102		3.4.0	R99	Removal of duplicate SGSN address/number from IDP-GPRS	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	103	2	3.4.1	R99	Comments on 'Introduction of GPRS reference in TCAP dialogue portion'	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	104	1	3.4.0	R99	Revised GPRS TCAP reference in TCAP dialogue portion	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	106	3	3.4.1	R99	Location Number GPRS	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	108		3.4.0	R99	Move of processing rules for GPRS context.	approved	D	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	109		3.4.0	R99	Correction to GPRS CONTRACT	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	111	1	3.4.0	R99	Replacing 'NetworkSpecificBoundSet' by CapSpecificBoundSet'	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	112	1	3.4.0	R99	Renumbering of GPRS specific Error codes	approved	F	3.5.0	CAMEL; Stage 3	

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NP-000458	29.078	113		3.4.0	R99	Correction of CAMEL-SCIBillingChargingCharacteristics	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	114	1	3.4.1	R99	Clarification on GPRS dialogue handling in case of TCAP error/abort	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	115	1	3.4.1	R99	GPRS location information in GPRSEventSpecificInformation	approved	F	3.5.0	CAMEL; Stage 3	
NP-000458	29.078	116	1	3.4.1	R99	Corrections on cause definitions	approved	F	3.5.0	CAMEL; Stage 3	
NP-000486	29.120	001		3.0.0	R99	Changes to support Authentication Failure Report for GLR	revised	B		Mobile Application Part (MAP) specification for Gateway Location Register (GLR); stage 3	
NP-000558	29.120	001	1	3.0.0	R99	Changes to support Authentication Failure Report for GLR	approved	F	3.1.0	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); stage 3	
NP-000494	29.120	002		3.0.0	rel-4	Changes to support secure transport MAP for GLR	approved	B	4.0.0	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); stage 3	
NP-000519	29.198	001	1	3.0.0	R99	Improvement of User Interaction STDs	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	003	2	3.0.0	R99	Correction of numbering in TpResultInfo	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	004	1	3.0.0	R99	Remove of E.164 Mobile and correction of numbering in TpAddressPlan	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	005		3.0.0	R99	Common IDL interfaces for Generic Call Control and Generic User Interaction between 3GPP, ETSI SPAN3 and Parlay	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	006		3.0.0	R99	Correction to table with overview of IDL files	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	007		3.0.0	R99	Reduction in name scoping in IDL for createUICall operation on IpUICall interface	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	008	2	3.0.0	R99	Alignment of Framework with Parlay 2.1, improvement on business entity identification	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	009	2	3.0.0	R99	Alignment of Framework with Parlay 2.1, correction of missing service token	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	010	2	3.0.0	R99	Alignment of Framework with Parlay 2.1, parameter name and data-type alignments	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	011	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, one interface per application correction	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	012	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, only one error returned in load manager query	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000519	29.198	013	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, missing operation fwUnavailableInd in IpAppFaultManager.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	014	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, missing service properties parameter in getServiceManager() operation of IpSvcFactory.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	015	1	3.0.0	R99	Alignment of Framework with Parlay 2.1 undefined datatype in endaccess operation of IpAccess.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	016	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, service and interface naming correction.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	017	1	3.0.0	R99	Alignment of Framework with Parlay 2.1, renaming of TpPropertyStruct to TpServiceTypeProperty	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	018	1	3.0.0	R99	Alignment of Framework with Parlay 2.1 addition of DES 128 bit authentication.	approved	F	3.1.0	Open Services Architecture API part 1	

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NP-000520	29.198	019	2	3.0.0	R99	Alignment of Framework with Parlay 2.1, improvement of load statistic data-types.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	020	1	3.0.0	R99	Correction in descriptive text for Call STD regarding user interaction in 2 Parties in Call State.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	021		3.0.0	R99	"Removal of double description of the type TpCallServiceCode".	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	022	1	3.0.0	R99	"Removal of unused types TpUIMessageCriteria, TpEntOpID and TpEntOpIDList".	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	023		3.0.0	R99	Alignment of Framework with Parlay 2.1, addition of setCallbackWithSessionID operation to IpService.	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000520	29.198	024		3.0.0	R99	Clarification of life time of parameters in TpAuthDomain	approved	F	3.1.0	Open Services Architecture API part 1	
NP-000521	29.998	001	2	3.0.0	R99	Mapping of CallNotification interupted CallNotification continue methods.	approved	F	3.1.0	Open Services Architecture API part 2	
NP-000521	29.998	002		3.0.0	R99	callEnded method mapping correction	approved	F	3.1.0	Open Services Architecture API part 2	
NP-000521	29.998	003		3.0.0	R99	Mapping of userInteractionNotificationInterrupted and userInteractionNotificationContinued methods	approved	f	3.1.0	Open Services Architecture API part 2	
NP-000545	30.802	A004	1		rel-4	The handling of application layer errors in MAP	approved	C	4.0.0	Project plan on Bearer Services and QoS	
TP-000151	31.101	023		3.2.0	R99	Replacement of the techincal contents with a reference to TS 102 221.	approved	F	3.3.0	UICC-terminal interface; Physical and logical characteristics	
TP-000176	31.102	030		3.2.0	R99	PLMN Selection additions	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000176	31.102	036		3.2.0	R99	Alignment to GSM 11.11 regarding Terminology	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	044	1	3.2.0	R99	Correction to call information access conditions and correction of DF_GSM file IDs	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	045		3.2.0	R99	Clarification of the type 3 links of the phonebook	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	046		3.2.0	R99	Alignment of EF(CCP2) with EF(ECCP)	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	047	1	3.2.0	R99	Correction of record length, editorial errors, missing FID	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	048		3.2.0	R99	APN Control List coding	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	049		3.2.0	R99	Alignment with TS 33.102 regarding authentication Sequence Numbers	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	050		3.2.0	R99	Preferred language selection	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	051		3.2.0	R99	Application Selection by partial AID	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000152	31.102	052		3.2.0	R99	Addition of warning regarding network selection with access technology	withdrawn	F		Characteristics of the USIM Application	
TP-000152	31.102	053		3.2.0	R99	Phone book clarifications	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000182	31.102	054		3.2.0	R99	Update condition for OPLMN Selector list	approved	F	3.3.0	Characteristics of the USIM Application	
TP-000153	31.110	003	1	3.1.0	R99	Reservation of TAR values	approved	F	3.2.0	Numbering system for telecommunication IC card applications	
TP-000154	31.111	005		3.1.0	R99	Correction of Profile Download regarding USAT service table	approved	F	3.2.0	USIM Application Toolkit (USAT)	
TP-000154	31.111	006		3.1.0	rel-4	Modification of GET INKEY	approved	C	4.0.0	USIM Application Toolkit (USAT)	
TP-000154	31.111	007		3.1.0	rel-4	DTMF issues	approved	C	4.0.0	USIM Application Toolkit (USAT)	
TP-000154	31.111	008		3.1.0	R99	correction to GET INPUT regarding number of response string variables	approved	F	3.2.0	USIM Application Toolkit (USAT)	
TP-000154	31.111	009		3.1.0	R99	Clarification for Alpha Identifier in PLAY TONE	approved	F	3.2.0	USIM Application Toolkit (USAT)	
TP-000154	31.111	010		3.1.0	R99	EVENT DOWNLOAD-MT call : correction of the sub-address description	approved	F	3.2.0	USIM Application Toolkit (USAT)	

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TP-000154	31.111	011		3.1.0	rel-4	Addition of a Technology Indicator Tag in a Terminal Response message	approved	F	4.0.0	USIM Application Toolkit (USAT)	
SP-000433	32.015	010		3.2.0	R99	Clarifications to chapter 7 characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain	
SP-000433	32.015	011		3.2.0	R99	Clarifications and corrections characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain	
SP-000433	32.015	012		3.2.0	R99	Clarification for QoS parameter characteristics per PDP context	approved	F	3.3.0	Telecommunications Management; Charging and billing; GSM call and event data for the Packet Switched (PS) domain	
SP-000434	32.104	007		3.2.0	R99	Clarification of the table oriented structure of the file format, and addition of ASN.1 example, according to annex D	approved	F	3.3.0	3G Performance Management	
SP-000435	32.106-3	001		3.1.0	R99	Add pragma statement to Notification IRP IDL	rejected	F		Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	
SP-000437	32.111-1	001		3.1.0	R99	Clarification On Mediation Function Algorithms	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	
SP-000437	32.111-1	002		3.1.0	R99	Clarification On Clear Alarm Suppression	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	
SP-000438	32.111-2	001		3.1.1	R99	Correction of qualifier for SystemDN	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	
SP-000438	32.111-2	002		3.1.1	R99	Addition of a missing constraint in acknowledgeAlarm operation	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	
SP-000439	32.111-3	001		3.1.0	R99	Update TS 32.111-3 Iterator	rejected	D	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	
SP-000439	32.111-3	002		3.1.0	R99	Clarification On Filterable Body Fields	rejected	D	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	
SP-000439	32.111-3	003		3.1.0	R99	Correct push_structured_event of push_structured_events	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	
SP-000439	32.111-3	004		3.1.0	R99	Remove the use of interface to encapsulate const strings	approved	F	3.2.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	
SP-000442	33.102	095	2	3.5.0	R99	Handling of emergency call	approved	F	3.6.0	Security Architecture	

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SP-000411	33.102	104	1	3.5.0	R99	Re-transmission of authentication request using the same quintet	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	105		3.5.0	R99	Length of CFN	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	106		3.5.0	R99	Clarification on Sequence Numbers (SQN - SEQ)	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	107		3.5.0	R99	Replace IMUI and TMUI with IMSI and TMSI	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	108		3.5.0	R99	Replace Quintuplet by Quintet	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	109		3.5.0	R99	Conversion function c2	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	110		3.5.0	R99	Update terminology regarding VLR/SGSN	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	111		3.5.0	R99	Start of ciphering	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	112		3.5.0	R99	Removal of ME triggered authentication during RRC connection	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	113		3.5.0	R99	Removal of EUIC	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	114		3.5.0	R99	Removal of duplicate text on USIM toolkit secure messaging and addition of a reference to 02.48 and 03.48 instead.	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	115		3.5.0	R99	Removal of secure authentication mechanism negotiation.	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	116		3.5.0	R99	Removal of HE control of some aspects of security configuration	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	117		3.5.0	R99	Specification of authentication vector handling in serving network nodes.	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	118		3.5.0	R99	Update of References	approved	F	3.6.0	Security Architecture	
SP-000412	33.102	119		3.5.0	R99	Profiles for sequence number management	approved	C	3.6.0	Security Architecture	
SP-000442	33.102	120		3.5.0	R99	Change of parameter value x regarding the capability of the USIM to store information on past successful authentication events	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	121		3.5.0	R99	Clarifications on integrity and ciphering of radio bearers.	approved	F	3.6.0	Security Architecture	
SP-000445	33.102	122		3.5.0	R99	Change of computation of the anonymity key in the re-synchronisation procedure	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	123		3.5.0	R99	Clarification on condition on rejecting keys CK and IK	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	124		3.5.0	R99	Clarifications on the START parameter handling	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	125		3.5.0	R99	New FRESH at SRNC relocation	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	126		3.5.0	R99	Addition of authentication parameter lengths	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	127		3.5.0	R99	Clarifications on the COUNT parameters	approved	F	3.6.0	Security Architecture	
SP-000442	33.102	128		3.5.0	R99	Minor editorial changes	approved	F	3.6.0	Security Architecture	
SP-000443	33.103	010		3.3.0	R99	Removal of Network Wide Confidentiality for R99 (clause 6)	approved	F	3.4.0	Security Integration Guidelines	
SP-000446	33.103	011		3.3.0	R99	Correction to BEARER definition	approved	F	3.4.0	Security Integration Guidelines	
SP-000445	33.103	012		3.3.0	R99	Computation of the anonymity key for re-synchronisation	approved	F	3.4.0	Security Integration Guidelines	
SP-000445	33.105	012		3.4.0	R99	Calculation of AK in re-synchronisation	approved	F	3.5.0	Cryptographic Algorithm requirements	
SP-000444	33.105	013		3.4.0	R99	Deletion of eUIC	approved	F	3.5.0	Cryptographic Algorithm requirements	
SP-000445	33.105	014		3.4.0	R99	Anonymity key computation during re-synchronisation	approved	F	3.5.0	Cryptographic Algorithm requirements	
TP-000131	34.108	001		3.0.1	R99	RRC Message Contents: RLCSize	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	002		3.0.1	R99	RRC Message Contents: RLCParam	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	003		3.0.1	R99	RRC Message Contents: PCPreamble	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	

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TP-000131	34.108	004		3.0.1	R99	RRC Message Contents: RBIdentity	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	005		3.0.1	R99	RRC Message Contents: TrCHParam	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	006		3.0.1	R99	RRC Message Contents: UECapability	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	007		3.0.1	R99	RRC Message Contents: RBMapping	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	008		3.0.1	R99	RRC Message Contents: PagingCause	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	009		3.0.1	R99	RRC Message Contents: CipheringAndIntegrity	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	010		3.0.1	R99	RRC Message Contents: RLCInfo	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	011		3.0.1	R99	RRC Message Contents: CompressedMode	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	012		3.0.1	R99	RRC Message Contents: SIB	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	013		3.0.1	R99	RRC Message Contents: PhyCH	approved	D	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	014		3.0.1	R99	RRC Message Contents: Measurement	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	015		3.0.1	R99	RRC Message Contents: TFCS	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	016		3.0.1	R99	RRC Message Contents: DPCHFrameOffset	approved	C	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	017		3.0.1	R99	Test USIM Parameters	approved	F	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	018		3.0.1	R99	Correction to definition of the test algorithm for authentication (clause 8.1.2)	approved	F	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	019		3.0.1	R99	Reference Radio Bearer Configurations	approved	F	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000131	34.108	020		3.0.1	R99	TDD Single mode	approved	F	3.1.0	Common Test Environments for User Equipment (UE) Conformance Testing	
TP-000162	34.109	001		3.0.0	R99	Clarification of UE test loop mode 2 loop back scheme	approved	C	3.1.0	Logical Test Interface (TDD and FDD)	
TP-000162	34.109	002		3.0.0	R99	Clarification of loopback delay requirement	approved	F	3.1.0	Logical Test Interface (TDD and FDD)	
TP-000162	34.109	003		3.0.0	R99	Change Request about specification TS 34.109	approved	F	3.1.0	Logical Test Interface (TDD and FDD)	
TP-000162	34.109	004		3.0.0	R99	UE test loop mode 1, loopback of PDCP SDUs	approved	C	3.1.0	Logical Test Interface (TDD and FDD)	
TP-000163	34.121	019		3.1.0	R99	Editorial corrections for References and Frequency Stability (2, 5.2, 5.3)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	020		3.1.0	R99	Corrections for Output Power Dynamics in the Uplink (5.4)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	021		3.1.0	R99	Transients for uplink inner loop power control (5.4.2.4.2)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	022		3.1.0	R99	Transmit On/Off power (5.5.2.4.2)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	023		3.1.0	R99	Change of TFC (5.6.4.2)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	

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TP-000163	34.121	024		3.1.0	R99	Clarification of the definition on Peak Code Domain Error (5.13.2.1)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	025		3.1.0	R99	UE interfering signal definition (6.3, 6.4, 6.5, 6.7)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	026		3.1.0	R99	Performance requirements (7.1, 7.2, 7.3, 7.4, 7.5)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	027		3.1.0	R99	CR on clause 7.6 and 7.7 in TS34.121 (7.6, 7.7)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	028		3.1.0	R99	Performance requirements (7.9, 7.10, 7.11)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	029		3.1.0	R99	Corrections for Annex D (Annex-D)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	030		3.1.0	R99	Corrections for Annex E (Annex-E)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	031		3.1.0	R99	Corrections for Transmit ON/OFF Power, Change of TFC and Power setting in uplink compressed mode (5.5, 5.6, 5.7)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	032		3.1.0	R99	Corrections for power setting in uplink compressed mode (5.7)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	033		3.1.0	R99	CR for subclause 7.8: Power control in downlink (7.8)	approved	B	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	034		3.1.0	R99	Corrections to clause 5.8, 5.9, 5.10, 5.11 and 5.12	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	035		3.1.0	R99	Corrections to EVM and PCDE formulae (B.2.7.1, B2.7.2)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	036		3.1.0	R99	New initial conditions for Spurious emission test case (6.8.4.1)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000163	34.121	037		3.1.0	R99	C.4.1 UL reference measurement channel for BTFD performance requirement (C.4.1)	approved	F	3.2.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	
TP-000134	34.122	001		3.0.0	R99	Corrections to EVM and PCDE formulae (B.2.7.1, B2.7.2)	approved	F	3.1.0	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	
TP-000135	34.123-1	001		3.0.0	R99	Idle mode test cases	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	002		3.0.0	R99	Section 8, RRC Tests: RLCSize	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	003		3.0.0	R99	Section 8, RRC Tests: HFN	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	004		3.0.0	R99	Section 8, RRC Tests: RLCParam	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	005		3.0.0	R99	Section 8, RRC Tests: RBIdentity	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	006		3.0.0	R99	Section 8, RRC Tests: TrCHParam	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	007		3.0.0	R99	Section 8, RRC Tests: UECapability	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	008		3.0.0	R99	Section 8, RRC Tests: RBMapping	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	

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TP-000135	34.123-1	009		3.0.0	R99	Section 8, RRC Tests: PagingCause	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	010		3.0.0	R99	Section 8, RRC Tests: RRCConnRelease-TM	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	011		3.0.0	R99	Section 8, RRC Tests: SignallingRelease	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	012		3.0.0	R99	Section 8, RRC Tests: CipheringAndIntegrity	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	013		3.0.0	R99	Section 8, RRC Tests: Countercheck_rev	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	014		3.0.0	R99	Section 8, RRC Tests: RLCInfo	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	015		3.0.0	R99	Section 8, RRC Tests: CompressedMode	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	016		3.0.0	R99	Section 8, RRC Tests: SIB	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	017		3.0.0	R99	Section 8, RRC Tests: PhyCH	approved	D	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	018		3.0.0	R99	Section 8, RRC Tests: Measurement	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	019		3.0.0	R99	Section 8, RRC Tests: FailureCases	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	020		3.0.0	R99	Section 8, RRC Tests: TFCS	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	021		3.0.0	R99	Section 8, RRC Tests: DPCHFrameOffset	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	022		3.0.0	R99	Section 8, RRC Tests: ReEstablishmentTimer	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	023		3.0.0	R99	Section 8, RRC Tests: InterFrequencyHardHandOver	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	024		3.0.0	R99	clause 12.4.1.5 "Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes"	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	025		3.0.0	R99	SM test cases	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	026		3.0.0	R99	MM : Authentication	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	027		3.0.0	R99	Update of radio bearer test cases (aligned to GSMA ISG version 1.3)	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	028		3.0.0	R99	MAC tests	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	029		3.0.0	R99	PDCP tests	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	030		3.0.0	R99	BMC tests	approved	B	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	031		3.0.0	R99	RRC updates	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000135	34.123-1	032		3.0.0	R99	clause 12.6.1.2 "Authentication rejected"	approved	F	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	

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TP-000135	34.123-1	033		3.0.0	R99	clause 12.6 "PS authentication and ciphering"	approved	C	3.1.0	UE Conformance Specification, Part 1 – Conformance specification	
TP-000136	34.124	001		3.0.0	R99	Idle mode conditions and test loops	approved	F	3.1.0	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	
TP-000136	34.124	002		3.0.0	R99	Adding End- user data besides BER and BLER for EMC data testing	approved	F	3.1.0	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	
TP-000136	34.124	003		3.0.0	R99	Editorial modifications for purposes of clarification	approved	D	3.1.0	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	
NP-000449	43.068	001		4.0.0	rel-4	Uplink Release dataFlow correction	approved	F	4.1.0	Voice Group Call Service (VGCS); Stage 2	
NP-000449	43.068	002		4.0.0	rel-4	Correction in the Notification procedure	approved	F	4.1.0	Voice Group Call Service (VGCS); Stage 2	
NP-000449	43.068	003		4.0.0	rel-4	Identification of Group ID - The longest GID has to be matched	approved	B	4.1.0	Voice Group Call Service (VGCS); Stage 2	
NP-000449	43.069	001		4.0.0	rel-4	Correction in the Notification procedure	approved	F	4.1.0	Voice Broadcast service (VBS); Stage 2	
NP-000449	43.069	002	1	4.0.0	rel-4	Identification of Group ID - The longest GID has to be matched	approved	B	4.1.0	Voice Broadcast service (VBS); Stage 2	
NP-000449	44.068	001	1	4.0.0	rel-4	The repetition of the priority in the Call Reference IE in the SETUP message	approved	C	4.1.0	Group Call Control (GCC) Protocol	
NP-000449	44.069	001	1	4.0.0	rel-4	The repetition of the priority in the Call Reference IE in the SETUP message	approved	C	4.1.0	Broadcast Call Control (BCC) protocol	