Technical Specification Group Services and System Aspects

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Source: **TSG SA Secretary**

Title: **Draft Report of TSG SA Meeting #7 - version 0.0.2**

Draft Report, Version 0.0.2 for approval

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1 Opening of the meeting

The Chairman, Mr. Niels Peter Skov Andersen, welcomed delegates to the meeting. Mr. Miguel Menchén Alumbreros, *Director General de Internet Móviles* gave an opening address, welcoming everybody to Madrid for this important meeting. He mentioned that the meeting coincided with the announcement that *Telefónica Móviles* had been granted a UMTS licence in Spain. *Telefónica Móviles* was the first mobile operator in Spain and currently had more than 10M customers. He wished TSG SA a very successful meeting.

The Chairman stated that the main target of the meeting was to identify the Release 1999 complete specification set and functional capabilities. We would then move into a maintenance and correction phase for Release 1999 and care needs to be taken over the changes that are introduced in order to maintain the stability of the system. Discipline in proposing changes to Release 1999 will need to be practised to avoid unintentional modifications to features. The Open Issues list for Release 99 would be discussed and it was hoped that most of the items were complete and the Project could concentrate on Release 2000 work. The results of the All-IP workshop, held in Nice in February 2000 would also be presented at the meeting.

The way forward for the definition of Release 2000 needed also to be elaborated at this meeting and Project management needs to be addressed.

2 Approval of the Agenda

The draft agenda, contained in TD SP-000001 was approved without modification.

3 Approval of the meeting report of TSG SA Meeting # 6

The draft Report version, 0.0.4, contained in TD SP-000002 including the comments received during the e-mail review period was approved.

4 Letters / Reports from other groups

TD SP-000029 Report of the All-IP workshop. This was presented for information and noted.

TD SP-000030 Output agreements reached at the All-IP meeting.

A large number of presentations were received at the workshop and many visions given. From these, the workshop tried to extract common elements to give a high level guideline of what 3GPP want to achieve in 3GPP. The TSG SA Chairman (who also chaired the All-IP workshop) presented the slides to TSG SA.

Some important agreements included that the security needs to be at least as good as state-of-the-art 2G networks and for the development of hybrid CS/PS networks in the first stages. Issues that need to be resolved include:

- Which Mobility Management model(s)
- Which Call Control model (H. 323, SIP, H248, ... ?)
- Study enhancement to GTP tunneling to harmonise with mobile IP and IPv6 mobility
- IP version to use – IPv6 ?
- How to migrate to IPv6 ?
- Where to use IP transport ? (Core network, Iu interface, UTRAN, Uu Interface)
- Requirements for naming and addressing

The report was noted and TSG SA will keep consider this when looking at the work coming from the different groups on All-IP issues.

4.1 TSG T, TSG CN, TSG RAN

(Only items directly relevant for TSG SAs internal work. Other issues agenda item 6)

TD SP-000008: Liaison Statement from RAN WG2 on UE radio access capabilities and relation to conformance testing. This liaison was presented by the SA Chairman, and some discussion on the meaning of the third bullet concluded that the designs should be made in accordance with the core specifications and not only to Conformance Test Specification, which one interpretation of the last bullet could be. The Chairman undertook to draft a reply to RAN WG2 to this effect. The first two bullets were noted by SA as they are under the group responsible for the system being tested (RAN or CN). The reply was produced in TD SP-000142.

TD SP-000142. Response to the liaison from RAN2 on UE radio access capabilities and relation to conformance testing. This clarifies the view that equipment designs should be done to the core specifications, and not to the test specification. The liaison was approved for transmission to RAN WG2.

TD SP-000003: Liaison Statement from RAN WG4 on handover signalling robustness. This was provided to SA in copy. Delegates were asked to study the issues addressed in the liaison, which was noted by TSG SA.

TD SP-000009: Response to Liaison Statement from RAN WG4 to SA WG1 on SoLSA support on UTRAN. This was provided to SA in copy. Delegates were asked to study the issues addressed in the liaison, which was noted by TSG SA.

4.2 Partners and their bodies

TD SP-000004: Liaison Statement from ETSI SMG2 on twinkling replacement antennas. This was presented for information and was noted.

TD SP-000040: GSMA ISG activity on Typical Radio Parameter sets. ISG is the ITU IMT-2000 Steering Group. This was provided for information and presented. It concluded by strongly recommending that the 3GPP testing specifications are produced assuming that operators will use mainly the parameters in TD SP-000041: (Typical Radio Parameter Sets Document submission) , i.e. the parameters of test cases should be chosen based on the operators' typical radio parameter sets. Interested parties were asked to participate in the drafting of the reply to TD SP-000008 (see above)to ensure that these recommendations were taken into account. The documents were then noted.

TD SP-000074: Standardization of an All-IP Network. This liaison was noted. It was also noted that SA WG1 are dealing with the details of the requirements.

TD SP-000124: UMTS Forum focus for year 2000 and beyond: Extended vision. This was introduced by the UMTS Forum 3GPP Co-ordination Group Chairperson. This presentation describes the new focus of the UMTS Forum, the definition of a personal network concept with mobile multimedia services and applications, combining the evolution of existing and emerging services to provide a viable platform beyond 2005. The presentation was noted.

4.3 Others

TD SP-000007: ITU-T Recommendation Q.1701 (High level definition document for IMT 2000). This was noted.

5 Reports from TSG SA Working Groups

5.1 TSG SA WG1

5.1.1 Report and questions for advice from TSG-SA WG1

TD SP-000051: Report from SA WG1, with presentation slides given in TD SP-000052. Tommi Kokkola, a SA WG1 Vice Chairman presented the report. Discussion is reported below. The report was noted.

Release 2000 issues:

TD SP-000032: Release 2000 Services and Capabilities. This contribution was introduced by BT. It proposed to ask SA WG1 make the completion of TR 22.976 their top priority and given maximum visibility within the TSGs during it's development. TSG SA were asked to find an appropriate mechanism to achieve this. This is in line with the discussions on TD SP-000051 to ask SA WG1 to complete the requirements in good time for other groups' work planning and completion. TSG SA stressed that the work on TR 22.976 should be given priority by SA WG1, however completetion of Release 1999 work is also very important, especially if other groups are dependent of SA WG1s work. SA WG1 are asked to meet sufficiently often and allocate enough time to complete their work in good time, and companies are asked to ensure that good support to progress the work is provided. The stable version should be sent to other groups as soon as it is considered ready for presenting to TSG SA for approval (i.e. as soon as it is ready for approval, not after it is approved).

TD SP-000031: Future work of SA WG1 on Release 2000. This contribution, from BT. This proposes that SA WG1 is requested to focus its future work upon at least the categories listed in the document for Release 2000. This includes naming and addressing, which has not been addressed in 3GPP to any great extent. It was decided to note that SA WG1 should give priority to important items where the work of other groups is highly dependent upon their work. It was agreed that information should be disseminated on the progress and priorities of the work of groups, to ensure that priorities can be matched to the urgency for stable requirements in other groups.

It was concluded that it is import to give priority where other groups need the requirements urgently. For explicit items listed in TD SP-000031, it would depend of contributions to the WG meetings. Information should be regularly disseminated on the priorities/time scales within SA WG1. Contributions to SA WG1 prioritization session at their next meeting was encouraged.

See also TD SP-000073, under "Approval of Specifications and Reports".

5.1.2 Review of TSG-SA WG1's completion of Release 1999

TD SP-000050: Status of VHE/OSA. Siemens support the work on VHE and would like it to be in Release 1999 but ask that SA WG1 be tasked to align the Stage 1 to the Stages 2 and 3 for this feature. It was agreed that SA WG1 would need to make corrections to align the Stage 1,.which is not a change in functionality, and these corrections can be added via CRs. This was accepted as a practical way forward by Siemens. (See also discussion of TD SP-000095 under agenda item 5.2).

It was noted that Stage 1 documents may generally need corrections when the Stages 2 and 3 are completed. Such alignment corrections are not considered as functional modifications to the system.

SA WG1 is tasked to review if their specifications cover the general assumptions of the Execution Environment workshop.

5.1.3 Approval of contributions from TSG SA WG1

Approval of CRs

The status of the approval of CRs from SA WG1 are given in Annex E, section E.1. The reported discussion is only for any CRs which were not approved or approved with important comments.

(Approved CRs in TDs 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 123, 63, 64, 65, 66, 67, 68, 69, 70, 71)

TD SP-000058 CRs to 22.038. CR001 was approved.
CR002 was discussed and a request that the technical requirements should not be included in this specification, but should be placed into the relevant specifications, which should be considered by TSG T. It was decided to try to modify this CR during the meeting, and to present a revised version for approval later in the meeting. The revised CR (001r1) was provided in TD SP-000152 which was approved.

TD SP-000060 CRs to 02.07, 22.060 and 22.101 on support of GPRS Encryption. These CRs were approved, but the inclusion of full requirements of SA WG3 in the specifications needed to be verified. It was verified that the requirements for a ciphering indicator and the ability for a user to refuse a non-ciphered GPRS connection is not covered by these CRs (however, there are already existing requirements on ciphering indicator at 22.101). The requirements given by SA WG3 needs to be considered in terms of the inclusion of this in Release 1999.

TD SP-000061 CRs to 02.66 (R98) and 22.066 (R99) on PCS-1900 Service Provider Number Portability. Some discussion over the Scope of this took place. It was clarified that the changes cover specific NP issues in North America, i.e. the CRs support only number portability for cases where a common numbering plan is used for fixed and mobile. A recommendation from TSG CN had been made to leave completion of SPNP open until June 2000. It was stated, that if this is not included in Release 1999, then North America would need a National Standard to cover the regulatory requirement. The CRs were then approved and the item included on the update of the Open Release 1999 items list. It was noted that the Category needs aligning between the CR cover sheets and the document cover sheet. It was noted that the use the term PCS-1900 is misleading, and it should be clarified by SA WG1 that these changes are specific for the requirements of North America Numbering Plan.

TD SP-000062 CRs to 22.078. CR032, 033, 034 were approved. For CR035, an input from Alcatel was presented, giving the background of the discussion in TD SP-000133 proposing the moving of User Interactions from CAMEL Phase 3 to CAMEL Phase 4. Accompanying CR036 in TD SP-000123. All of these CRs were then approved.

TD SP-000071: 22.003 CR003 and 22.060 CR011 were approved. 22.011 CR014 on Network Selection. Some discussion over the mechanism for periodic network selection attempts, if on a non-listed PLMN periodic searches are made for listed PLMNs. These CRs were approved after clarification that the search is activated only when in idle mode on a non-listed PLMN.

Approval of Specifications and Reports

TD SP-000072: TR 21.905 version 2.0.0: Vocabulary, was presented for approval. This was approved and placed under TSG SA Change Control. It was noted that this document needs to be maintained continuously and input from all TSGs and WGs are expected.

TD SP-000073: TR 22.976 version 1.0.0: Study on Release 2000 services and capabilities, was presented for information. SA WG1 were requested to arrange for the presentation of this document at the next SA WG2 joint meeting with TSG CN in Helsinki. TSG T WGs should also be provided with the information to ensure that TSG T is aware about requirements and expected capabilities. SA WG1 were asked to ensure that this is done before freezing the requirements at SA WG1, to allow possible feed-back and changes to be proposed.

It was requested that the document is actively liased to other groups to ensure timely feedback.

The TSG SA chairman reminded that it is necessary to complete SA WG1 requirements and requirements caused by SA WG2 architectural work by June to allow the progress of the work in other groups on stage 2 and 3. As this was the fulfilled with the current time plan from SA WG1, the TSG SA chairman requested that SA WG1 aims of fulfilling these time constraints.

The text of section 10 was questioned, as it states that 3GPP should take the main-stream IP-based multimedia standards, and not modify them in 3GPP. This was questioned if this would be the best way forward. It was clarified that there are many issues in the document, which are still under discussion and the spirit of this section is to be compatible with the IP specifications to promote access independence. This subject was further discussed under agenda item 6.6.

In the discussion also the value of the detailed technical considerations in the report was questioned and SA WG1 was encouraged not to try to gain time for the requirements part, by not involve itself into to detailed technical discussions. After these discussions, the document was noted. SA WG1 were asked to take into account the comments made during the discussion.

5.2 TSG SA WG2

5.2.1 Report and questions for advice from TSG-SA WG2

TD SP-000083: Report from SA WG2, with presentation slides given in TD SP-000082. This was presented by the SA WG2 Chairman, Teuvo Jarvela. Discussion is reported below and the report was noted.

Concerns over the definition of more domains were expressed (i.e. IM CN subsystem definition) and SA WG2 were asked to resolve the ambiguities and associated problems. The SA WG2 Chairman clarified thse definitions were not yet for approval, and comments can be made to SA WG2.

5.2.2 Review of TSG-SA WG2's completion of Release 1999

TD SP-000095: SA WG2 reported that two requirements from SA WG1 are only partly supported in 23.127 v2.0.0: "Virtual Home Environment / Open Service Architecture" There is no support of GPRS Charging and SMS Charging at the OSA API, and user profile management via the OSA API is currently restricted to the retrieval of terminal capabilities. SA WG2 proposed that these features be postponed to Release 2000.

SA WG2 informed TSG SA that the focus has been on the open API from the network to applications for release 99, while the interface between OSA servers will be studied in the future releases.

SA WG2 therefore proposed a reduction in the scope of VHE/OSA for Release 1999, restricting it to the features in 23.127 v2.0.0. It was believed that the specification would be stable, if these requirements were left out for Release 1999.

There was some discussion on the acceptability of removing these features or whether the item should be moved to Release 2000. TSG CN considered that there would be a good possibility of completing the stage 2 in time for stage 3 completion by June 2000.

The decision on this was postponed to allow delegates to consider the consequences of the removal of these features. A proposal was then presented in TD SP-000155.

TD SP-000155: Approval of OSA for R99. This contribution recommends a way forward: to approve the VHE/OSA Stage2 specification for Release 1999, as proposed by SA WG2, noting some of the open issues. It was agreed to approve TD SP-000089 (23.127 v.2.0.0) and use this proposal as the way forward on OSA.

TD SP-000106: Proposed WI: Enable bearer independent CS network architecture. It was clarified that there are no identified service aspects. There were objections to the work item as it stood so it was decided to modify the term "network" to "transport network". A request to include the text "The study will comprise the evaluation of these new techniques" was made, it was decided that a study of technical solutions is implicit in work items and need not be explicitly included. The final and approved work item was issued in TD SP-000149.

TD SP-000107: Proposed WI: An architecture for CC and roaming to support IP-based MM Services in UMTS. A WI to address the service aspects and a parent Feature WI also needs to be created by SA WG1. It was repeated, as for SA WG1, that the work from SA WG2 needs to be stable and near completion by June 2000 for Release 2000 work to be progressed within the overall timescale. The timescale for the WI therefore needs to be modified to achieve this goal. The wording of the description was discussed and it was decided to revise the contribution, which was later presented in TD SP-000150 and was approved. It was noted that this is understood to cover an evolution towards All-IP and details need to be studied by SA WG1 (The Work Item was proposed as a Building Block under a Feature to be defined by SA WG1).

TD SP-000097 SA WG2 review of open issues for Release 1999 List. This document provided the results of the analysis of the open issues list within SA WG2. The review of SoISA had not been completed, but SoLSA was already postponed to Release 2000. OSA was proposed for moving to Release 2000. It was noted that this list had been prepared on the assumption that all SA WG2 recommendations were approved by TSG SA and would be revised to take into account the decisions of TSG SA.

TD SP-000098, SP-000099, SP-000100 and SP-000101. Review of open issues on 23.002, 23.060, 23.107 and 23.101. There were no open issues identified on these specifications the documents were noted.

TD SP-000110: LS response to TIPHON WG5 on TIPHON QoS. This liaison was noted.

TD SP-000092: LS to SA (cc: CN, T, RAN) on Enhanced User Identity Confidentiality. This liaison recommends to delay EUIC to Release 2000. This was also recommended by TSG CN. It was decided that EUIC is moved to Release 2000. All relevant groups were asked to note this and take appropriate action.

TD SP-000093: LS to N1, S1 (cc: SA) on adaptation of 23.060 terminology with the N1 terminology agreement. This liaison was presented to TSG SA for information.

It was suggested that these terminology proposals are included in the SA WG1 vocabulary document. The liaison should also be sent to appropriate RAN WGs. The liaison was then noted.

TD SP-000094: LS to SA, CN, T (cc: CN WG2, RAN WG3, SA WG4) on Transcoder Free Operation (TrFO) and Out of Band Transcoder Control (OoBTc) for Release 1999. This proposes to move the TrFO/OoBTc feature to Release 2000.

DoCoMo expressed disappointment over the proposal to move the work to Release 2000 and requested that SA WG2 produce a detailed work plan to identify when the work can be completed. SA WG2 had proposed to hold a workshop to plan the work.

The Chairman clarified that when all the relevant work is approved for a Work Item, then the work is completed, and the functionality of the Work Item can be functionally frozen. This means that the feature can be completed in June, if all relevant work is completed, even though the it is a part of release 2000, and the complete Release 2000 first targeted to be completed by December 2000.

The proposal was accepted by TSG SA and SA WG2 were asked to ensure that efficient co-operation is established with the relevant groups and an effective work plan created for this for early completion as part of Release 2000.

TD SP-000096: LS to SA WG1 and SA WG1 Release 2000 ad-hoc (cc: CN, CN1, SA) on Definitions for Release 2000. This was presented to TSG SA for information. The SA WG1 Vice Chairman requested to have a definition of All-IP in 3GPP. The liaison was not ed by TSG SA and SA WG2 were asked to clarify the definitions in Release 2000 and to ensure that they are compatible with Release 1999 so that the specification do not have to be completely revised with the terminology.

Co-ordination role

TD SP-000109: Proposed definitions of "Feature", "Building Block" and "Work Task". This was presented by the SA WG2 Secretary and proposes the definitions for Project Management in 3GPP, as agreed in TSG SA.

TD SP-000120: Examples of Features, Building Blocks and Work Tasks (Presentation slides). This presentation shows examples of the implementation of the Project Management given in TD SP-000109. The presentation was used to give an introduction into the practical example provided in TD SP-000108.

TD SP-000108: Proposed list of ~~ICGs~~IGCs, features, building blocks, work tasks for Release 2000. A more stable example was expected at the meeting, and delegates were asked to review the example and make some comments to SA WG2. It was emphasised that the ~~ICGs~~ IGCs are across-feature groups. SA WG2 have been asked to organise the collection of the information but TSG SA remain responsible for the overall co-ordination of the Project. Active contribution to SA WG2 is expected to produce a comprehensive project plan.

It was requested that this document is maintained and kept posted on the 3GPP server area.

Delegates were requested to study the document and provide it to their colleagues in order to provide feed back to SA WG2 for completion of the Plan mid-April 2000. It was recognised by SA WG2 that there may be some errors or omissions in the document and comments on these were also welcomed.

It was noted that these procedures would need to be included in an update to the 3GPP Working Methods.

TD SP-000033: Release 2000 - Work Planning and Management. This contribution was presented by BT and proposes the creation of a Release 2000 Work Plan across 3GPP for completion in April 2000.

There was some discussion on this proposal. It was agreed that it is very important to have a work plan, and this was already in the creation process through the ~~ICGs~~IGCs. TSG SA agreed that this should be continued, to avoid in breaks in the ongoing work on creation of a workplan for Release 2000. However, the project management and the role of the ~~ICGs~~ IGCs could be reviewed at the next TSG SA meeting to see if a better working method could be found.

5.2.3 Approval of contributions from TSG SA WG2

Approval of CRs:

The status of the approval of CRs from SA WG1 are given in Annex E, section E.2. The reported discussion is only for any CRs, which were not approved or approved with significant comments.

(Approved CRs: TD 84, 85, 86, 135, 87, 105, 88,

TD SP-000086: CRs to 23.060: Motorola stated difficulties with CRs 107, 145 and 146r1 and requested rejection at this time, and Motorola promised that it would participate in the work to update these CRs. This was supported by Lucent. The SA WG2 chairman suggested that the CRs were approved and further CRs elaborated to update the specifications. It was agreed to approve these CRs and the objection of Motorola and Lucent was recorded. Motorola and Lucent reasons for objection was according to their statement:

"The IPv6 address should not be delivered in two separate parts to the MS; instead the complete IPv6 address should be delivered to the MS in the Activate PDP Context message. This way the long-established SM procedure 'PDP Context Activation' can be used unchanged for PDP type IPv6 for both stateful and stateless autoconfiguration, and unnecessary signalling overhead across the radio is avoided."

Approval of Specifications:

TD SP-000090: 23.171, version 2.0.0: "Functional stage 2 description of location services in UMTS", was presented for approval. Some discussion on the implications on the work of other groups by of the inclusion of PS hooks. It was noted that the included hooks do not put requirements on other groups to do extra work for release 1999. It was clarified that there is also a GSM specification 03.71 and therefore this is not a transferred GSM specification, which also should cover GSM. With these notes and clarifications the specification was approved and placed under TSG SA change control.

5.3 TSG SA WG3

5.3.1 Report and questions for advice from TSG-SA WG3

TD SP-000042: The Report from SA WG3 to TSG SA (presentation slides) was presented by the SA WG3 Vice Chairman, Dr. Stefan Pütz. Discussion is reported below and the report was noted.

The recommendation of a standard authentication algorithm to encourage a minimum level of security across all 3GPP networks was discussed. The GSM Association Security Group were also working on a 3G authentication algorithm and it was questioned whether this was an efficient way of working. It was generally agreed that the work needs to be done, but duplication of work should be avoided by informing the GSM Association on the intentions of 3GPP.

The level of security intended for the standard algorithm was requested. It was clarified that the algorithm would be expected to be as strong as possible, and it would be up to individual operators to decide if it was adequate, or to choose another authentication algorithm.

The requirement for a standard authentication algorithm was approved and SA WG3 were asked to liaise with the GSM Association to ensure co-ordination of the work. It was noted that this was a slight change in position than previously decided in 3GPP and a liaison to the GSM Association informing about this was produced and provided in TD SP-000156. See agenda item 5.8.

It was recognised that ETSI SAGE have offered to develop the algorithm which will require funding. The recommendation by SA WG3 to use ETSI SAGE for this work was approved. If funding is not confirmed by 20 March 2000 then it will cause a delay to the delivery of the algorithm.

TD SP-000005: Liaison Statement to ETSI SAGE (copy to TSG SA for information) on Delivery of algorithm specifications and TD SP-000118: Work plan for the design of the 3GPP Authentication Algorithm. These were noted after the discussion given above.

TD SP-000006: Liaison Statement concerning Enhanced User Identity Confidentiality (EUIC) Status. A decision was already taken on moving EUIC to release 2000. With this the liaison was noted. A request for some explanation of EUIC in RAN groups was made and SA WG3 were asked to provide this, preferably through a liaison person.

TD SP-000121: Discussion paper for GPRS encryption. This was provided for information. Some discussion ensued, and delegates were asked to feed back comments to SA WG3. The document was then noted.

TD SP-000131: Status of Ciphering and Integrity Algorithm distribution. This provided an explanation of and status of the publication of the authentication algorithms. An initial solution of distribution via non-disclosure agreements was being set up in order to allow the distribution to start. It was expected that the algorithms would be published in the future removing the necessity of this system.

The Chairman reminded the meeting that TSG SA had made a request to the PCG in July 1999 to make the algorithms available as soon as they were approved, due to the urgency for them, which had been agreed by the PCG. On this background the TSG SA chairman had felt very disappointed that the necessary preparations had not been taken which would have allowed the algorithm to be distributed immediately after is completion. The TSG SA chairman indicated that he had expressed this disappointment on the behalf of TSG SA at the PCG meeting in January 2000.

A request for the contact details and application procedure was made. MCC agreed to make this information available.

5.3.2 Review of TSG-SA WG3's completion of Release 1999

The list of open issues given in slides 15 and 16 of the SA WG3 status report was considered. The impact of inclusion of the partial inclusion of 3G location services in Release 1999 needs some further study.

TD SP-000043: MAP Security Status Report. This was dealt with together with TD SP-000111: Liaison Statement to SA, CN and CN WG2 on MAP security. SA WG3 requested to delay MAP Security to June 2000 for inclusion in Release 1999 as they believe that the Layer 2 and Layer 3 work can be completed in that time. TSG CN confirmed that the work in CN could be achieved by June 2000, providing that no additional problems are identified. SA WG5 had considered the liaison from SA WG3 on this matter and requested confirmation on whether the Key Authentication Centre is a function of the message centre, etc, or a Network element. In any case the June 2000 time scale did not seem achievable by SA WG5.

It was agreed that **MAP Security would be moved to Release 2000**, with a target date for approval of CRs as June 2000 in order to have it available as soon as possible.

TD SP-000076: Proposed Procedures for joint control of 3GPP AKA. It was clarified that this allows the same procedure to be used for 3GPP and 3GPP2 algorithms. This does not mean that the same algorithm is to be used in 3GPP and 3GPP2.

5.3.3 Approval of contributions from TSG SA WG3

The status of the approval of CRs from SA WG3 are given in Annex E, section E.3. The reported discussion is only for any CRs which were not approved or approved with significant comments.

(Approved CRs in TDs 112, 77, 44, 47, 48, 75)

TD SP-000112: 33.102 CRs. All were approved except:

- CR054r1: The use of R99+ and R98- in the document was questioned. It was explained that R99+ refers to both GSM and 3GPP Release 1999 and onwards and R98- refers to GSM Release 1998 and previous. The CR was approved and SA WG3 asked to clarify the specification on this terminology.

  S3 are asked to clarify the use of this terminology in the specification.

- CR071: TD SP-000122 was presented by Siemens. Siemens did not object to the approval of this CR in principle, but required clarification and specification of the behaviour for Emergency Calls in case the integrity check fails. It was concluded that Emergency Calls should always continue independently of the outcome of the integrity check. The CR was **not approved**. SA WG3 were asked to clarify the requirements with CN WG1

TD SP-000077: Even though it just had been decided to move MAP security to Release 2000, it was agreed to approve this CR for consistency of the MAP security sections and request SA WG3 to provide the necessary change requests for the next meeting to delete MAP Security from Release 1999 specifications and add it to the new Release 2000 version.

TD SP-000075: Even though it just had been decided to move EUIC to Release 2000. It was agreed to approve these CRs for consistency and to delete EUIC from Release 1999 specifications at the next meeting, and add it to the new Release 2000 version.

SA WG3 were requested to produce CRs to remove MAP Security and EUIC from Release 1999 specifications and insert them into Release 2000 specifications at the next meeting.

Approval of Specifications:

The 3G confidentiality and integrity algorithms, which had been accepted by SA WG3 was confirmed that the work is complete. **TSG SA formally approved the algorithms for distribution to the 3GPP Partner Organisations.**

TD SP-000049: General Report from ETSI SAGE on the Design, Specification and Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms. This was presented for approval and publication as a 3GPP TR. The report was approved and will be published as version 3.0.0.

5.4 TSG SA WG4

5.4.1 Report and questions for advice from TSG-SA WG4

TD SP-000018: Status Report from SA WG4, which includes presentation slides. The SA WG4 Chairman presented the SA WG4 status report. The report was noted and discussion is reported below.

For AMR TFO a short cut option for implementation is added to Release 2000. This option is fo rthe case, that both ends support all codec modes~~protocols~~, then the TFO protocol ~~codec~~ can be simplified and TFO immediately established~~chosen without the need for lengthy negotiation~~.

SA WG4 would like to keep the AMR Floating-point C-code in Release 1999, although it will not be ready until June 2000. This request was accepted as there would be no impact on other groups and no impact on interoperability.

SA WG4 request the use of AMR 12.2 for GSM as a possible implementation of EFR. It is compatible, except that it does not pass the bit exact testing with the EFR Test vectors. It adds an additional 5ms in one direction. The impact on the quality level and the impact on the terminal were questioned. After a detailed explanation of the issue, the request was agreed.

SA WG4 asked SA to clarify the communication to the ITU. It was clarified that communication with the ITU from 3GPP is done by the individual members according to the rules of ITU and co-ordinated via the RAN ITU-R and CN ITU-T Ad-hoc groups, which should be kept informed about this type of information. A correspondence from the ITU was provided in TD SP-000134 for information, and was noted by TSG SA.

The SA WG4 Chairman announced that he was resigning as Chairman at the June SA WG4 Meeting, and that consequently there would be an election for the Chairmanship of SA WG4 at the June meeting. This will be formally announced in advance of the election.

5.4.2 Review of TSG-SA WG4's completion of Release 1999

TD SP-000021: TS 26.975 v1.1.0 AMR Speech codec; Characterization Report (R99). This was presented for information and was noted.

TD SP-000022: TS 26.104 v0.3.0 ANSI-C code for the Floating-Point AMR Speech Codec (R 99). This was presented for information and was noted. (This version contains only the text, and not the C-code).

5.4.3 Approval of contributions from TSG SA WG4

The status of the approval of CRs from SA WG4 are given in Annex E, section E.4. The reported discussion is only for any CRs which were not approved or approved with significant comments.

(Approved CRs in TDs 25, 26,)

TD SP-000025: 26.073CR001. Should be marked as Category A, rather than F (approved).

Specifications:

TD SP-000019: TS 26.912 v2.0.0 QoS for Speech and Multimedia Codec - Quantitative performance evaluation of H.324 Annex C over 3G (R 99). This was approved and placed under TSG SA Change control as version 3.0.0.

TD SP-000020: TS 26.915 v1.0.0 Echo Control For Speech and Multi-Media Services (R 99). This was presented for approval. This was approved and placed under TSG SA Change control as version 3.0.0.

TD SP-000023: GSM 06.76 v2.0.0 (Technical Report) Adaptive Multi-Rate (AMR) Speech Codec; Study Phase Report (R 98). This was approved and placed under TSG SA Change control as version 7.0.0.

TD SP-000024: TR 26.901 v2.0.0 AMR Wideband Speech Codec Feasibility Study Report (Release 2000). This was approved and placed under TSG SA Change control as version 4.0.0.

TD SP-000027: AMR Wideband Permanent project document WB-3: Performance Requirements (version 2.0). This document was approved as the performance requirements report for a Wideband Codec.

TD SP-000028: AMR Wideband Permanent project document WB-4: Design Constraints (version 1.0). This document was approved as the design constraints for a Wideband Codec.

5.5 TSG SA WG5

5.5.1 Report and questions for advice from TSG SA WG5

TD SP-000011: Report from SA WG5 (presentation slides). This was presented by the SA WG5 Chairman. Discussion is reported below and the report was noted.

SA WG5 have exchanged letters to TADIS and BARG for co-operation, but reported that they have not yet received any response. (Note: TADIS and BARG are groups of the GSM Association)

TD SP-000010: Liaison response to S3's LS (S3-000190) on Functions of Key Distribution and Key Administration for MAP security. This was provided to TSG SA for information and was noted. (For further information see the discussion of MAP security above).

5.5.2 Review of TSG-SA WG5's completion of Release 1999

All open issues have been closed, except the security key administration issue.

Slide 17 shows some errors, as it should refer to 32.015, rather than 32.105. Also, it was commented that the GTP Header length and structure was not modified in Release 1998 or earlier, so only Release 1999 O&M specifications ought to be affected. However, after some out of meeting checking, it was concluded that even though that the GTP Header length and structure first was modified from Release 1999, it made sense to change the GTP protocol in all versions to avoid having two versions and a large signalling overhead.

TD SP-000119: SA WG5 report on RAN O&M consistency issue. This report detailed study results on the use of Object Oriented O&M in the RAN. SA WG5 reported that they found no clear indication of inconsistency between the RAN O&M specification for Release-99 work by the RAN group within the overall management architecture of the UMTS specified by SA WG5.

SA WG5 was of the opinion that RAN O&M work should use the more advanced specification technology i.e. Object-Oriented technology, which is widely accepted in the standardisation arena as well as in the implementation industries.

> **TSG SA agreed that OAM work should be taken into account early in the specification of new features.**

5.5.3 Approval of contributions from TSG SA WG5

The status of the approval of CRs from SA WG5 are given in Annex E, section E.5. The reported discussion is only for any CRs which were not approved or approved with important comments.

(Approved CRs in TDs 14, 15, 16, 17)

TD SP-000017:

- 32.015 v.3.0.0 CRs 001, 002, 003 and 004 to (GSM Charging PS domain) and 12.15 v.7.4.0, A018. These CRs were approved.

  It was noted that the issues in 32.015 CR 003 still need some further work to be completely resolved.

- and A019 to 12.15 v.7.4.0 (GPRS Charging). It was reported that the GTP Header had not been modified in Release 98, so this CRs was incorrect. This CR was **rejected** but a revised CR with a correct explanation for the reason for change was later provided in TD SP-000161 and approved. (TD SP-000161: CR019r2 to GSM 12.15 version 7.4.0 on GTP header length fixing – approved).

Specifications:

TD SP-000012: 32.106 v.2.0.0 (3G Configuration Management). This specification was approved and placed under TSG SA Change control as version 3.0.0.

TD SP-000013: 32.111 v.2.0.0 (3G Fault Management). This specification was approved and placed under TSG SA Change control as version 3.0.0. The list of open issues which needs to be completed by the next meeting, was noted.

5.6 Review of TSG SA Release 1999 status

TD SP-000164: The Open Issues list, (TD SP-99639 from SA Meeting #6) had been updated with information from the other TSGs and WGs and was presented for further thought before discussion the next day.

5.7 Review of TSG SA work programme

No separate contribution was discussed under this agenda item.

5.8 Letters to other groups

TD SP-000156: The proposed liaison statement to the GSM Association on Authentication development, as requested by TSG SA under agenda item 5.3.1 was approved.

5.9 Other issues

TD SP-000143: CR to 22.011 on network selection. There was some objection to approving the CR immediately and it was proposed to send it to SA WG1 for consideration. This to ensure that all consequential changes also were covered, e.g. AT command operation needs to be taken into account as well. However, a revised version was provided in TD SP-000167.

TD SP-000167: 22.011 CR015 on Network selection. As this is considered as a feature modification, and the impact on other specifications was not felt to be sufficiently covered, it was suggested that the change request was considered by SA WG1. The requirement for Network selection was noted and there was strong support for this feature. If a full set of CRs are provided to all relevant specifications the function may be considered for inclusion in R99 in June 2000.

TSG SA did not take any position on the acceptability or non-acceptability of this CR. Interested members can present the CR to SA WG1 for consideration.

A concern was expressed to the acceptance of CRs as input documents directly into TSGs for approval without going through the WGs. It was explained that this should be an exceptional case where there are strong reasons for doing so. In such a case, it is required to have a consensus of support and no objection about lack of expertise from the meeting, otherwise it should not be approved, but sent back to the WGs for consideration.

TD SP-000168: Proposed LS on the introduction of a user controlled switch of the priority of the user and operator preferred PLMN list. This liaison was related to the CR and was introduced for information. It clarifies that the Network selector switch is user-modifiable only and cannot be changed using tool kits etc. across the air interface. As the CR in TD SP-000167 was not approved, the proposed liaison statement was not accepted either.

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

6.1 TSG CN

6.1.1 Report and questions for discussion from TSG CN

TD SP-000140: Draft report of from TSG CN. The report was presented using the slides in TD SP-000151.

An election was held for the Chairman and Vice Chairman of TSG CN at their meeting #7. Stephen Hayes was elected as Chairman and Ian Park as Vice Chaiman. (Masami Yabusaki, is the other Vice Chairman)

Guidance from TSG SA was requested on the following areas:

3G Location Services (CS cell location for UMTS)

CS Bearers in UMTS (Question to S1: Low rate NT services needed?)

Low data rate transparent support is not complete. After some discussion, it was agreed that SA WG1 would be asked about the service requirements, and to take appropriate action to ensure GSM-3G interworking.

EUIC (Question to S1: Behaviour of paging after VLR restart) - CN

- *Recommendation - Move to R'00*

It had been decided earlier in the meeting to move EUIC to Release 2000 so this subject is not urgent for release 99 could be discussed with SA WG1.

IMEI Coding format (Analysis started)

Members should check the local regulatory requirements for IMEI in order to ensure that roaming requirements etc. can be handled. TSG SA noted that this work is ongoing, and invite interested members to participate in the work in TSG CN.

The type of solution that is found may effect the impact on any existing equipment. Therefore there was a request to keep TSG T informed. TSG CN undertook to keep TSG T informed on the progress of the work.

MAP Security (Concept nearing agreement, Key distribution not addressed)

This had been discussed earlier in the meeting and a conclusion reached.

OSA (Open issues outstanding) - CN Recommendation R'99

This was on the list of outstanding open issues, and was dealt with under agenda item 6.5.

6.1.2 Information on completion of Release 1999 in TSG CN

It was noted that MultiCall is complete, except for a problem with a CR on Inter-MSC handover, which will be corrected by an updated CR at TSG Meeting #8.

It was clarified that Emergency Call Integrity Protection checking is not a service requirement, and Emergency Calls should be completed whatever result of any integrity check (if integrity checking is performed, then the result is ignored). It was suggested that it therefore makes no sense to perform the check. SA WG3 was asked to produce a CR to remove the integrity check also for emergency call with inserted USIM.

NOTE: It was already decided that no integrity check would be performed for USIM-less emergency-calls by the rejection of CR071R1 to TS 33.102 (see agenda item 5.3.3).

No common solution had yet been agreed for the Global cause code of "no ID". A common global solution is not available at the moment, and a regional solution may need to be adopted in Japan. CN expect a solution for meeting #8. It was recognised that the deadline for the solution in Japan was 17 March 2000, so it was already too late. It should be recognised that if a regional solution is adopted and implemented in a network, then there is a risk that the network would need modification when a common solution is approved in 3GPP.

6.1.3 Information on status and changes to deliverables

TD SP-000129: LS presenting an Invitation to SA WG3 on joint meeting TSG CN / SA WG3 on security requirements for Release 2000. TSG SA noted this correspondence and recommended that SA WG3 accept the TSG CN proposal to ensure that Security work progresses.

The CN Chairman reported that if liaisons are not presented by a representative, then they are noted by the TSG CN meeting, and therefore that liaisons should presented to ensure they are correctly dealt with.

TD SP-000130: LS on organisation of the work on VHE/OSA Release 2000. The proposal was noted and SA2 were encouraged to meet with TSG CN to discuss this matter.

TD SP-000137: Liaison Statement on Standardization/Specification of NNI (Network-to-Network Interface) standardization with Other IMT-2000 Family Member Systems. This liaison discusses an issue of NNI with other IMT-2000 Family Member Systems and recommends TSG SA and TSG CN to start the necessary preliminary study for the detailed NNI specification/standardization work. It was agreed that study of NNI standardisation could be done in 3GPP. SA WG1 were asked to further progress the work on the TR "UMTS Interworking with ANSI-41 Networks" and report to TSG SA #08, as the result of this work is considered a good starting point for any work on NNI. When the studies are completed, TSG SA can consider the way forward.

It was confirmed that 3GPP TSG SA members see the role of ITU-T to be the further development of a visionary plan to IMT family member standardisation and considers 3GPP responsible for the technical plan for 3G in the area of 3GPP.

TD SP-000138: Meeting on Co-operation with ITU-T SG11. This was noted, and Members were asked to consider attendance to this meeting.

A co-operation meeting had been arranged by DoCoMo for 29 May 2000 in Paris. Output from this will be forwarded to the SA WG2 workshop.

The leaving Chairman, Mr. Harald Dettner, was thanked for the hard work he has done in TSG CN, the timely completion of Release 1999 and the co-operative spirit in which he ran the meetings and discussions. He was wished very good and enjoyable future work in his new rôle.

Mr. Dettner, in turn, thanked his committee for their very hard work and co-operation. He also sent thanks to Mr. Peter Van der Arend, who helped him to cope with the trials of Chairmanship in ETSI SMG, and Mr. Friedhelm Hillebrand for his warm welcome and encouragement as a new Chairman. He wished the 3GPP good and fruitful work.

6.2 Report from TSG RAN

6.2.1 Report and questions for discussion from TSG RAN

TD SP-000148: 3GPP RAN#7 meeting report. The Chairman of TSG RAN presented his report of TSG RAN #7 meeting to TSG SA. He reported that there were no open issues remaining for Release 1999 in RAN WG1, WG2. Some open issues were reported in RAN WG3 (details were provided in TD SP-000145) and some open issues remaining in RAN WG4.

NOTE: After discussion and corrections to the report, it was made available in TD SP-000163.

It was noted that on slide 8 (RAN WG3 open issues) that CBCH was missing from the open issues.

Slide 10 details the items that TSG RAN have decided are not included in Release 1999. It was clarified that the inclusion in Release 2000 of any of these items will be a matter of discussion on Release 2000.

The Out of Band Transcoder is proposed for deletion from the TSG RAN Work Programme) as the solution does not involve support from the UTRAN in addition to what is already provide for other functions and work items (i.e. it is not proposed to delete the Out of Band Transcoder function). It was clarified that TSG RAN will not work on this unless it is found to be necessary, at which time a Work Item will be established to deal with this.

> **Completion of the TrFO work for Release 2000 was expected for June 2000 and TSG SA expect to see this at meeting #8. TSG SA recommends the other TSGs to do the necessary work to ensure this is deadline met.**
>
> **It was felt that TSG RAN could consider to keep the work Item in the work plan if it was required in TSG RAN.**
>
> **Delegates were reminded that the approval of other TSGs work items is outside the Scope of TSG SA, according to the 3GPP Working Procedures.**

Slide 15, the Release 2000 WI "Introduction of prioritization for AAL type 2 connections over Iub and Iur interfaces" was deleted because it was the original proposal for the following "QoS for AAL2" WI.

The round-trip delay budget was reported by RAN WG3 as worst case of 450 ms. It was considered that the calculation of delay should be done to a more typical case. The method for determining a value should be produced. In the discussion, it became clear that for a normal mobile to mobile call the delay was comparable (or lower) to the delay for the similar case in GSM.

SA WG2 were asked to study the likely architecture scenarios with co-operation with other relevant groups, in order to propose a realistic model for calculating the round-trip delay figure. The delay figure shall be calculated assuming no delay, as delay figures might vary significantly between networks. Contributions will be needed in order for SA WG2 to perform this task.

6.2.2 Information on completion of Release 1999 in TSG-RAN

TD SP-000145: Unfinished items proposed for inclusion in R99. This was presented for information and noted.

TD SP-000146: Unfinished items not for inclusion in R99. This was presented for information and noted.

TD SP-000153: Open Issues for Release 99 List. The update provides the status of open issues since the TSG SA #6 meeting. This was considered under the overall review of Release 1999, under agenda item 6.5.

6.2.3 Information on status and changes to deliverables

This was reported in the main report from TSG RAN under agenda item 6.2.1.

6.3 Report from TSG T

6.3.1 Report and questions for discussion from TSG T

TD SP-000125: TSG-T Status report to TSG SA #7. The Chairman of TSG T presented his report of TSG T #7 meeting to TSG SA.

The conformance test suite plans were questioned. It was clarified that it was expected that test specifications would be available for Release 1999. delays would be dependent upon the funding and resources.

A comment on the approved TR 21.904 "UE Capability Requirements" was made, as it appeared to be contradictory in some places with RAN work. It was asked if a review was intended by TSG T. TSG T Chairman clarified that a review would be made, based upon comments upon the document from other groups. All companies should review the documents and forward comments to TSG T.

It was added that there are some duplication of specification, which could be resolved by use of references instead of duplication of text in documents.

GSM SIM API and SIM toolkit secure messaging, stages 1 and 2: 02.19, 03.19, 02.48 and 03.48 were accepted by TSG T for maintenance and inclusion in Release 2000 at the appropriate point.

TSG T requested that TSG SA WGs liaise with TSG T on the impact of Release 2000 architecture and service changes to the terminal.

TD SP-000126: High level summary of R99 for TSG T WGs. This summarises the features which TSG T has completed for Release 1999 and was noted.

TD SP-000136: LS from T1 cc TSG-T "Distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals". The transmission of the proposal was endorsed.

6.3.2 Information on completion of Release 1999 in TSG-T

TD SP-000127: TSG T update to list of outstanding R99 issues. The update provides the status of open issues since the TSG SA #6 meeting. This was considered under the overall review of Release 1999, under agenda item 6.5.

France Telecom asked if all the outstanding issues on the UICC - SIM Interoperation had been solved. It was confirmed by the TSG T Secretary that all known issues for Release 1999 had been resolved within TSG T (T WG3).

6.3.3 Information on status and changes to deliverables

TD SP-000128: New work items approved at TSG T #7. This list was noted.

6.4 Letters to others groups

TD SP-000114: LS to IETF Audio/Video Transport Working Group.

TD SP-000113: Draft LS to IETF AVT Working Group on 3GPP requirements for real-time packet-switched multimedia services. This proposal from Matsushita had NOT been approved by SA WG4. SA WG4 recommended that it should be presented directly to the TSG SA plenary by the originating organisation. ~~SA WG4~~ Consequently, Matsushita asked TSG SA to consider the draft liaiison and forward it to the IETF and any other relevant groups. It was decided that TSG SA should not approve or send this liaiison, but interested companies can submit similar contributions directly to IETF.

6.5 Review of completion of the Release 1999 specification set

TD SP-000035: Completion of Release 99. This contribution from BT proposes that TSG SA determine the status of all outstanding work for Release 1999 and produce a high level scope and capabilities.

A draft of the functionality of Release 1999 will be produced by the TSG Chairmen and MCC in time for the next TSG SA meeting. This will be distributed when available, if earlier than Meeting #8.

TD SP-000164: Open Issues for Release 99 List. The list was updated with the information from the reports from TSGs and SA WGs and presented in TD SP-000166. The Chairman recognised the hard effort in the WGs to complete a large proportion of the open items in time for this meeting. The “final” version of the Open Issues list was provided in TD SP-000169.

6.6 Release 2000 and beyond

TD SP-000034: Release 2000 Options. BT introduced the contribution which proposes the Release 2000 specifications should be developed to cater for different ‘Architecture Options’, to enable the deployment of different and mixed architecture configurations which still comply with standards but give flexibility to suit the differing requirements.

It was reported that this proposal is not aligned with the views in SA WG1. It was also stated that MultiMedia services are not only for PS domain and it needs to be very clear that such services are not applicable only to the domain, in which they are classified into under the proposal.

It was suggested that a contribution, taking into account the comments made should be sent to SA WG1 for inclusion in their work.

SA WG2 had received a similar contribution and concluded that it was an implementation option and should not be in the standards. It was argued that this is an implementation issue, but the specifications need to allow the implementation options.

> **TSG SA decided that SA WG2 should produce a document in the 23.800 series which documents some implementation options based upon the proposals in this contribution. Delegates are asked to contribute to the document in SA WG2.**

TD SP-000102: Design base for the IP Multimedia. This presentation was made by Ericsson, which suggests the use of IETF IP protocol model and SIP protocol. A related contribution was provided in TD SP-000157.

SA WG2 are planning a workshop to deal with these matters and it was suggested that the proposals are discussed there. *It was asked whether this should be done by Vote at SA WG2. The SA Chairman commented that the technical decisions at a Working Group should be attempted by consensus at the meeting, before resorting to formal voting. If a decision is not made by SA WG2 by the next TSG SA meeting, then TSG SA will make the decision.*

TD SP-000139: Megaco-H.248 / SIP. This presentation was made by Italtel and highlights the potential dangers in SIP, where hackers could bypass Call Control and make a direct call. The Megaco provides a Gateway and foresees the adoption of IPSEC. The document was noted and the originator requested to contribute to the decision process in SA WG2.

TD SP-000081: Architecture model for Release 2000. this was provided by Samsung for information. Delegates are asked to provide any feedback to Samsung on this contribution so that the ideas can be presented to SA WG2 in their next meeting in Helsinki.

TD SP-000115: Background for Global Text Telephony (Presentation slides). This presentation was made by Ericsson. This provides background information for the discussion document in TD SP-000116 and the request for a Global Text Telephony Work Item given in TD SP-000162.

It was mentioned that the usual way to propose a Work Item would be to go via a WG and therefore SA WG1 or SA WG2 should be asked to consider it.

It was decided that TSG SA support the principle of the Work Item, but that it was too detailed for a decision at TSG SA. SA WG1 were asked to consider this work item and propose it again to TSG SA for approval. SA WG1, SA WG2 and T WG1 (and any other relevant groups) were asked to start considering the work item.

TD SP-000116: Requirements and Objectives for Global Text Telephony.

TD SP-000162: Proposed Work Item description for Global text Telephony.

TD SP-000036: Objectives for Release 2000. This contribution proposes some objectives for the management of the Release 2000 specification set in order to ensure a timely delivery of Release 2000.

The TSG SA Chairman went through the proposals on order and found that most of the ideas had been covered earlier in the meeting. Members were asked to ensure that contribution on Release 2000 is made in good time to ensure that the project is on schedule and to ensure co-ordination across the project through their collegues in other groups.

TD SP-000158: Establishing working relation with IETF. This presentation was made by Ericsson. The presentation proposes to establish a co-operation agreement with the IETF and a 3GPP IETF function to start up the necessary functions.

It was suggested that an agreement with the IETF should be established, for 3GPP to feed relevant standards or modifications to the IETF for adoption. It was agreed that 3GPP need to know how the IETF work and that the IETF know how 3GPP work. The use of IETF maintained specifications should be carefully considered, as this may mean that 3GPP expertise would need to be sent also to IETF, reducing the available 3GPP resources.

The Chairman reported that all 3GPP TSGs had received permission, from the PCG, to liaise with the IETF. It was reported that the IETF do not have a formal liaison structure and a high level management meeting may be needed in order to exchange ideas.

It was decided that the co-operation with the IETF should be started on a "need" basis, where material could be used when it is available. Analysis of the need for more formal co-operation agreement could then be made and a decision made. This analysis should include the identification of where other bodies' standards can be re-used and where liaison is necessary, including those of the IETF.

A Rapporteur should be appointed to provide an overview report on activities and documents of interest outside of 3GPP. Any Volunteers as Rapporteur were requested to see the Chairman after the meeting.

6.7 Other issues

None

7 Project Management

7.1 Review of work programme

7.2 Handling of March 2000 specification sets (Release 1999 & Release 2000)

TD SP-000154: 3G Specifications not forming part of Release 1999. The document was noted.

TD SP-000078: Creation of release 2000 specifications. This contribution from MCC proposes when and how to create Release 2000 (version 4.0.0) documents from Release 1999 documents or as new documents. A correction to this is proposed by TSG RAN in TD SP-000147. An error in the mirror CR example was noted, and the mirror CRs will only be for later versions of corrective changes, and not for earlier versions.

TD SP-000147: Proposed modification to TD SP-000078 from TSG RAN. This is to include a WG request to a TSG to copy specifications from one Release to another.

TD SP-000160: 21.101 v 2.5.0. 3rd Generation mobile system Release 1999 Specifications. Some corrections were mentioned, and the document was approved with these comments taken into account, and placed under TSG SA Change Control, as version 3.0.0.

7.3 Working methods

079, 080 Noted

7.4 Other issues

8 Project support

TD SP-000159: Status report from MCC. This was noted and delegates were asked to place any question directly to the MCC.

9 Postponed issues from earlier in the meeting

The postponed issued are covered under their respective agenda items.

10 Workplan and future meetings

A summary of the future meeting dates are given below.

TSG	No.	Date	Venue	Host
CN	#8	June 2000	Dusseldorf, Germany	Mannesmann
RAN	#8	June 2000	Dusseldorf, Germany	Mannesmann
T	#8	June 2000	Dusseldorf, Germany	Mannesmann
SA	#8	26-28 June 2000	Dusseldorf, Germany	Mannesmann
CN	#9	20-22 September 2000	Hawaii , USA	TTC, ARIB, T1
RAN	#9	20-22 September 2000	Hawaii , USA	TTC, ARIB, T1
T	#9	20-22 September 2000	Hawaii , USA	TTC, ARIB, T1
SA	#9	25-28 September 2000	Hawaii , USA	TTC, ARIB, T1
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
CN	#11	March 2001		
RAN	#11	March 2001		
T	#11	March 2001		
SA	#11	March 2001		

<ADD 2001 SCHEDULE>>

11 Any other business

TD SP-000039: Electronic Working within TSGs and Working Groups (Version 1.1). This was noted by TSG SA.

TD SP-000165: Invitation to the 3GPP TSG SA WG2 Drafting Meeting on Call Control and joint session with N1. The invitation was noted.

12 Closing of meeting

The chairman thanked the hosts for their excellent meeting arrangements and social event. He thanked delegates for their hard work and patience 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 82 76	+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@d2privat.de	+49 211 533 2838	+49 211 533 2804	+49 172 2100 748
Secretary	Maurice Pope	3GPP Support Team	maurice.pope@etsi.fr	+33 4 92 94 4259	+33 4 92 38 5259	
TSG SA WG1 Officials:						
Chairman	Alan Cox	Vodafone	alan.cox@vf.vodafone.co.uk	+44 1635 673 332	+44 1635 583 019	+44 385 200 147
Vice Chairman	David Cooper	Telecom Modus Ltd	david.cooper@t-modus.co.uk			
Vice Chairman	Tommi Kokkola	Nokia Corporation	tommi.kokkola@ nokia.com	+358 40 50 40 734	+358 9 511 68080	+358 40 50 40 734
Secretary	Michael Clayton	3GPP Support Team	michael.clayton@etsi.fr	+33 4 92 94 4228	+33 4 92 38 5228	
TSG SA WG2 Officials:						
Chairman	Teuvo Jarvela	Nokia Corporation	teuvo.jarvela@nmp.nokia.com	+44 1252 865 163	+44 1252 865 065	+44 385 525 683
Vice Chairman	Yukio Hiramatsu	NTT	hiramatu@magnet.netlab.ntt.co.jp	+81 422 59 6024	+81 422 60 7429	+81 50 137 8536
Vice Chairman	Vacancy					
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TSG SA WG3 Officials:						
Chairman	Michael Walker	Vodafone	mike.walker@vf.vodafone.co.uk	+44 1635 673 886	+44 1635 31127	+44 385 277 687
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TSG SA WG4 Officials:						
Chairman	Alain Ohana	~~GSM North America~~BellSouth Mobility DCS	alain.ohana@pcs.bls.com	+1 972 517 0709		
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Vice Chairman	Michael Truss	Motorola	trussm@cork.cig.mot.com	+353 21 511 327	+353 21 357 635	
Vice Chairman	Vacancy					
Secretary	Adrian Zoicas	3GPP Support Team	adrian.zoicas@etsi.fr	+33 4 92 94 42 21	+33 4 92 38 52 21	

A.2 TSG CN Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG CN Officials:						
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Vice Chairman	Masami Yabusaki	NTT DoCoMo	yabusaki@docomo.fr	+33 1 56 88 30 30	+33 1 56 88 30 45	
New Vice Chairman	Ian Park	Vodafone	ian.park@vf.vodafone.co.uk	+44 1635 673 527	+44 1635 233 562	
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TSG CN WG1 Officials:						
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Vice Chairman	Mark Fenton	Ericsson	mark.fenton@eml.ericsson.se	+44 1 256 864 376	+44 1 256 864 307	
Vice Chairman	Vacancy					
Secretary	Ban Al Bakri	3GPP Support Team	Ban.AlBakri@etsi.fr	+33 4 92 94 43 09	+33 4 93 65 28 17	
TSG CN WG2 Officials:						
Chairman	Ian Park	Vodafone	ian.park@vf.vodafone.co.uk	+44 1635 673 527	+44 1635 233 562	
Vice Chairman	Steffen Habermann	T-Mobil	teffen.habermann@t-mobil.de	+49 228 936 3324	+49 228 936 3329	
Vice Chairman	Yun-Chao Hu	Ericsson	yun-chao.hu@ericsson.co.jp	+81 3 5216 9085	+81 3 5216 9047	
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Vice Chairman	Achim Braun	Alcatel	achim.braun@alcatel.de	+49 711 8214 1817	+49 711 8214 1177	
Vice Chairman	Graham Heaton	Brand Communications Ltd	grahamh@brandcomms.com	+44 1480 442 100	+44 1480 442 153	
Secretary	David Boswarthick	3GPP Support Team	david.boswarthick@etsi.fr	+33 4 92 94 42 78	+33 4 93 65 28 17	

A.3 TSG RAN Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG RAN Officials:						
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Vice Chairman	Donald Zelmer	Bell South	Don_Zelmer@bscc.bls.com	+1 404 249 3689	+1 404 249 5157	
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Vice Chairman	Takehiro Nakamura	NTT DoCoMo	takehiro@wsp.yrp.nttdocomo.co.jp	+81 468 40 3190	+81 468 40 3840	
Vice Chairman	Vacancy					
Secretary	Shinobu Ikeda	3GPP Support Team	Shinobu.Ikeda@etsi.fr	+33 4 92 94 42 06	+33 4 93 65 28 17	
TSG RAN WG2 Officials:						
Chairman	Denis Fauconnier	Nortel	dfauconn@nortelnetworks.com	+33 1 39 44 52 8	+33 1 39 44 50 12	
Vice Chairman	Mikko Rinne	Nokia	mikko.j.rinne@research.nokia.com	+358 9 4376 6825	+358 9 4376 6856	
Vice Chairman	Vacancy					
Secretary	Hans Van Der Veen	3GPP Support Team	Hans.vanderVeen@etsi.fr	+33 4 92 94 42 61	+33 4 93 65 28 17	
TSG RAN WG3 Officials:						
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Vice Chairman	Jean-Marie Calmel	Nortel	calmel@nortel.com	+33 1 39 44 52 82	+33 1 39 44 50 54	
Vice Chairman	Vacancy					
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TSG RAN WG4 Officials:						
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Vice Chairman	Vacancy					
Secretary	David Williams	3GPP Support Team	David.Williams@etsi.fr	+33 4 92 94 43 21	+33 4 93 65 28 17	
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A.4 TSG T Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG T Officials:						
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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	
TSG T WG1 Officials:						
Chairman	Bjarke Nielsen	Sony	bjarke.nielsen@ipce.eu.sony.co.jp	+49 89 9 45 78 107	+49 89 9 45 78 412	
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Vice Chairman	Vacancy					
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Vice Chairman	Guenter Maringer	T-Mobil	guenter.maringer@t-mobil.de	+49 228 936 1249	+49 228 936 881249	
Vice Chairman	Vacancy					
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Annex B: List of documents

NUMBER	TITLE	SOURCE	AGENDA ITEM	Document for	REPLACED BY
SP-000001	Draft agenda for Meeting #7	Chairman	2	Approval	
SP-000002	Draft Report of TSG SA Meeting #6 version 0.0.4	TSG SA Secretary	3	Approval	
SP-000003	LS on handover signalling robustness	RAN WG4	4.1	Information	
SP-000004	LS on twinkling replacement antennas	ETSI SMG2	4.2	Information	
SP-000005	LS to ETSI SAGE (cc SA) on Delivery of algorithm specifications	SA WG3	5.3.1	Information	
SP-000006	LS concerning Enhanced User Identity Confidentiality (EUIC) Status	SA WG3	5.3.1	Decision	
SP-000007	ITU-T Recommendation Q.1701 (High level definition document for IMT 2000)	ITU-T SG11 Chairperson	4.3	Information	
SP-000008	LS on UE radio access capabilities and relation to conformance testing	RAN WG2	4.1	Information	
SP-000009	Response to LS on SoLSA support on UTRAN	RAN WG4	4.1	Information	
SP-000010	Liaison response to S3's LS (S3-000190) on Functions of Key Distribution and Key Administration for MAP security	SA WG5	5.5.1	Information	
SP-000011	SA WG5 status report	SA WG5 Chairman	5.5.1	Information	
SP-000012	32.106 v.2.0.0 (3G Configuration Management)	SA WG5	5.5.3	Approval	
SP-000013	32.111 v.2.0.0 (3G Fault Management)	SA WG5	5.5.3	Approval	
SP-000014	3 CRs to 32.101 v.3.0.0 (3G Telecom Management principles and high level requirements)	SA WG5	5.5.3	Approval	
SP-000015	2 CRs to 32.102 v.3.0.0 (3G Telecom Management architecture)	SA WG5	5.5.3	Approval	
SP-000016	2 CRs to 32.104 v.3.0.0 (3G Performance Management)	SA WG5	5.5.3	Approval	
SP-000017	4 CRs to 32.015 v.3.0.0 (GSM charging PS domain) & 2 CRs to 12.15 v.7.4.0 (GPRS Charging)	SA WG5	5.5.3	Approval	
SP-000018	TSG-S4 Status Report to TSG-SA#7	SA WG4 Chairman	5.4.1	Information	
SP-000019	TR 26.912 v2.0.0 QoS for Speech and Multimedia Codec - Quantitative performance evaluation of H.324 Annex C over 3G (R 99)	SA WG4	5.4.2	Approval	
SP-000020	TR 26.915 v1.0.0 Echo Control For Speech and Multi-Media Services (R 99)	SA WG4	5.4.2	Approval	
SP-000021	TR 26.975 v1.1.0 AMR Speech codec; Characterization Report (R99)	SA WG4	5.4.2	Information	
SP-000022	TS 26.104 v0.3.0 ANSI-C code for the Floating-Point AMR Speech Codec (R 99)	SA WG4	5.4.2	Approval	
SP-000023	GSM TR 06.76 v2.0.0 Adaptive Multi-Rate (AMR) Speech Codec; Study Phase Report (R 98)	SA WG4	5.4.3	Information	
SP-000024	TR 26.901 v2.0.0 AMR Wideband Speech Codec Feasibility Study Report (R 00)	SA WG4	5.4.3	Approval	
SP-000025	11 CRs on AMR	SA WG4	5.4.3	Approval	
SP-000026	One CR on Tandem Free Operation - CR GSM 08.62-A002 rev1 on TFO Message Extensibility	SA WG4	5.4.3	Approval	
SP-000027	AMR Wideband Permanent project document WB-3: Performance Requirements v2.0	SA WG4	5.4.3	Approval	
SP-000028	AMR Wideband Permanent project document WB-4: Design Constraints v1.0	SA WG4	5.4.3	Approval	
SP-000029	Draft Report of the All-IP Workshop, version 0.0.2 (AIP-000043)	All-IP WS Secretary	4	Information	
SP-000030	Results of TSG SA All-IP Workshop (slides AIP-000042)	All-IP WS Secretary	4	Information	
SP-000031	Future work of SA1 on Release 2000	BT	6.6	Discussion	
SP-000032	Release 2000 Services and Capabilities	BT	6.6	Discussion	
SP-000033	Release 2000 - Work Planning and Management	BT	6.6	Discussion	
SP-000034	Release 2000 Options	BT	6.6	Discussion	
SP-000035	Completion of Release 99	BT	6.5	Discussion	
SP-000036	Objectives for Release 2000	BT	6.6	Discussion	
SP-000037	21.101 v 2.3.0	MCC	7.2	Approval	SP-000104
SP-000038	List of Specifications not included in Release 1999	MCC	7.2	Information	SP-000154
SP-000039	Electronic Working within TSGs and Working Groups (Version 1.1)	BT	9	Information	
SP-000040	GSMA ISG activity on Typical Radio Parameter sets	GSMA ISG (IMT-2000 Steering Group)	4.2	Information	
SP-000041	Typical Radio Parameter Sets Document submission	GSMA ISG (IMT-2000 Steering Group)	4.2	Information	
SP-000042	Status report from SA WG3 to SA#7	SA WG3 Vice Chairman	5.3.1	Information	
SP-000043	MAP Security Status Report	SA WG3	5.3.2	Discussion	

NUMBER	TITLE	SOURCE	AGENDA ITEM	Document for	REPLACED BY
SP-000044	CR to 33.102 on MAP Security	SA WG3	5.3.3	Approval	
SP-000045	CRs on Refinement of EUIC	SA WG3	5.3.3	Approval	SP-000075
SP-000046	Miscellaneous CRs to 33.102	SA WG3	5.3.3	Approval	SP-000112
SP-000047	CR to 33.103 on Alignment of integration Guidelines with Security Architecture	SA WG3	5.3.3	Approval	
SP-000048	Miscellaneous CRs to 33.105	SA WG3	5.3.3	Approval	
SP-000049	General Report from ETSI SAGE on the Design, Specification and Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms. For Publication as a 3GPP TR.	SA WG3	5.3.2	Approval	
SP-000050	Status of VHE/OSA	Siemens	6.5	Discussion	
SP-000051	Status report from SA WG1 to SA#7	SA WG1	5.1.1	Information	
SP-000052	Slide presentation of SA WG1 status report	SA WG1	5.1.1	Information	
SP-000053	CR to 22.001 on procedure for call progress indications	SA WG1	5.1.3	Approval	
SP-000054	CR to 22.002 on corrections on 3.1kHz audio support	SA WG1	5.1.3	Approval	
SP-000055	CRs to 22.011	SA WG1	5.1.3	Approval	
SP-000056	CRs to 22.030	SA WG1	5.1.3	Approval	
SP-000057	CR to 22.034 on HSCSD changes for 3GPP	SA WG1	5.1.3	Approval	
SP-000058	CRs to 22.038	SA WG1	5.1.3	Approval	
SP-000059	CRs to 22.060 and GSM 02.60	SA WG1	5.1.3	Approval	
SP-000060	CRs to 02.07, 22.101 and 22.060 on support of encryption in GPRS MS	SA WG1	5.1.3	Approval	
SP-000061	CRs to 02.66 and 22.066 on Service provider number portability	SA WG1	5.1.3	Approval	
SP-000062	CRs to 22.078	SA WG1	5.1.3	Approval	
SP-000063	CR to 22.090 on UCS2 character set	SA WG1	5.1.3	Approval	
SP-000064	CR to 22.100 on SoISA applicability	SA WG1	5.1.3	Approval	
SP-000065	CRs to 22.105	SA WG1	5.1.3	Approval	
SP-000067	CRs to 22.121	SA WG1	5.1.3	Approval	
SP-000068	CRs to 22.135 and 22.004 on MultiCall	SA WG1	5.1.3	Approval	
SP-000069	CRs to 22.001 and 22.003 on editorial modifications regarding SMS CB to CBS	SA WG1	5.1.3	Approval	
SP-000070	CRs to 22.101	SA WG1	5.1.3	Approval	
SP-000071	CRs to 22.003, 22.011 and 22.060 on Release 2000	SA WG1	5.1.3	Approval	
SP-000072	TR 21.905 : Vocabulary	SA WG1	5.1.3	Approval	
SP-000073	TR 22.976 : Release 2000 service requirements	SA WG1	5.1.3	Approval	
SP-000074	Standardization of an All-IP Network	GSM North America	4.2	Discussion	
SP-000075	CRs on Refinement of EUIC (revision of S3-000045)	SA WG3	5.3.3	Approval	
SP-000076	Proposed Procedures for joint control of 3GPP AKA	SA WG3	5.3.2	Discussion	
SP-000077	CRs to 33.102	SA WG3	5.3.3	Approval	
SP-000078	Creation of release 2000 specifications	MCC	7.2	Decision	
SP-000079	Specification status list before TSG Meetings #7	MCC	7.3	Information	
SP-000080	Specification status list at end of TSG SA Meeting #7	MCC	7.3	Information	
SP-000081	Architecture model for Release 2000	SAMSUNG ELECTRONICS CO., LTD.	6.6	Information / Discussion	
SP-000082	TSG SA WG2 status report (powerpoint presentation)	SA WG2 Chairman	5.2.1	Information	
SP-000083	TSG SA WG2 status report (Word document)	SA WG2 Chairman	5.2.1	Information	
SP-000084	23.002 and 03.02 CRs	SA WG2	5.2.3	Approval	
SP-000085	23.032 CRs	SA WG2	5.2.3	Approval	
SP-000086	23.060 and 03.60 CRs	SA WG2	5.2.3	Approval	
SP-000087	23.107 CRs	SA WG2	5.2.3	Approval	
SP-000088	23.121 CRs	SA WG2	5.2.3	Approval	
SP-000089	23.127 v.2.0.0	SA WG2	5.2.3	Approval	
SP-000090	23.171 v.2.0.0	SA WG2	5.2.3	Approval	
SP-000091	List of LSs handled by SA2 between SA#6 and SA#7	SA WG2	5.2.3	Information	
SP-000092	LS from SA2 to SA (Cc CN, T, RAN) on Enhanced User Identity Confidentiality (S2-000587)	SA WG2	5.2.2	Discussion	
SP-000093	LS from SA2 to N1, S1 (Cc SA) on adaptation of 23.060 terminology with the N1 terminology agreement (S2-000611)	SA WG2	5.2.2	Information	
SP-000094	LS from SA2 to SA, CN, T (Cc N WG2, TSG RAN WG3, TSG SA WG4) on Transcoder Free Operation (TrFO) and Out of Band transcoder Control (OoBTc) for R99 (S2-000616)	SA WG2	5.2.2	Discussion	
SP-000095	LS from SA2 to SA (Cc S1) Information on VHE/OSA work (S2-000617)	SA WG2	5.2.2	Discussion	
SP-000096	LS from SA2 to S1, S1 R00 ad-hoc (Cc CN, CN1, SA) on Definitions for R00 (S2-000618)	SA WG2	5.2.2	Information	

NUMBER	TITLE	SOURCE	AGENDA ITEM	Document for	REPLACED BY
SP-000097	Review of SA2 open issues identified at SA#6	SA WG2	5.2.2	Discussion	
SP-000098	Review of open issues on 23.002	SA WG2	5.2.2	Discussion	
SP-000099	Review of open issues on 23.060	SA WG2	5.2.2	Discussion	
SP-000100	Review of open issues on 23.107	SA WG2	5.2.2	Discussion	
SP-000101	Review of open issues on 23.121	SA WG2	5.2.2	Discussion	
SP-000102	Design base for the IP Multimedia	Ericsson		Discussion	SP-000157
SP-000103	3GPP/IETF Interworking	Ericsson		Discussion	SP-000158
SP-000104	21.101 v 2.4.0 (replaces SP-000017)	MCC	7.2	Approval	SP-000160
SP-000105	CRs to 23.110	SA WG2	5.2.3	Approval	
SP-000106	Proposed WI: Enable bearer independent CS network architecture	SA WG2	5.2.2	Approval	SP-000149
SP-000107	Proposed WI: An architecture for CC and roaming to support IP-based MM Services in UMTS	SA WG2	5.2.2	Approval	SP-000150
SP-000108	Proposed list of IGCs, features, building blocks, work tasks for Release 2000	SA WG2	7.2	Discussion	
SP-000109	Definition of Features, BBs and WTs	SA WG2	7.2	Discussion	
SP-000110	LS reposonse to TIPHON WG5 on TIPHON QoS	SA WG2	5.2.2	Information	
SP-000111	Liaison Statement to SA, CN and CN WG2 on MAP security	SA WG3	5.3.2	Discussion	
SP-000112	Miscellaneous CRs to 33.102 (replacement of SP-000046)	SA WG3	5.3.3	Approval	
SP-000113	Draft LS to IETF AVT Working Group on 3GPP requirements for real-time packet-switched multimedia services	Matsushita	5.8	Approval	
SP-000114	LS to IETF Audio/Video Transport Working Group	Matsushita	5.8	Information	
SP-000115	Background for Global Text Telephony (Presentation slides)	Ericsson	6.6	Presentation	
SP-000116	Requirements and Objectives for Global Text Telephony	Ericsson	6.6	Discussion	
SP-000117	Proposed Work Item description for Global text Telephony	Ericsson	6.6	Approval	SP-000162
SP-000118	Work plan for the design of the 3GPP Authentication Algorithm (MCC Task Force)	ETSI SAGE/ SA WG3	5.3.1	Information	
SP-000119	SA5 report on RAN O&M consistency issue	SA WG5	5.5.2	Information	
SP-000120	Powerpoint presentation: Examples of Features, Buiding Blocks and Work Tasks	SA WG2	7.2	Discussion	
SP-000121	Discussion paper for GPRS encryption	SA WG3	5.3.1	Information	
SP-000122	Security / Emergency Call (Integrity Check without USIM)	Siemens AG	5.3.1	Analysis/Consideration	
SP-000123	CR to 22.078: Correction of Announcement capabilities	Alcatel	5.1.3	Approval	
SP-000124	UMTS Forum focus for year 2000 and beyond: Extended vision	UMTS Forum	4.2	Presentation	
SP-000125	TSG-T Status report to TSG SA #7	TSG T Chairman	4.1	Presentation	
SP-000126	High level summary of R99 for TSG T WGs	TSG T Chairman	4.1	Information	
SP-000127	TSG T update to list of outstanding R99 issues	TSG T Chairman	6.5	Discussion	
SP-000128	New work items approved at TSG T #7	TSG T	4.1	Information	
SP-000129	LS on organisation of the work on VHE/OSA Release 2000	TSG_CN	6.1		
SP-000130	LS on organisation of the work on VHE/OSA Release 2000	TSG_CN	6.1		
SP-000131	Status of Ciphering and Integrity Algorithm distribution	MCC	8		
SP-000132	CAMEL 3, announcements during a call	Siemens AG		Decision	
SP-000133	Move of CAMEL user interaction to CAMEL phase 4	Alcatel		Decision	
SP-000134	Collaboration on Wideband speech codec development	TSG SA4	5.4.1	Information	
SP-000135	3 more CRs on 23.060 V. 3.2.1	TSG SA2	5.2.3.	Approval	
SP-000136	LS from T1 cc TSG-T "Distribution of a proposal for prioritisation of the elaboration of conformance test cases for 3G terminals."	T1			
SP-000137	Liaison Statement on Standardization/Specification of NNI (Network-to-Network Interface) standardization with Other IMT-2000 Family Member Systems	TSG-CN	6.1	Discussion	
SP-000138	Meeting on Cooperation with ITU-T SG11	: ITU-T Coordination Adhoc Chair	4.2	Information	
SP-000139	Megaco-H.248 / SIP	Giuseppe Ricagni			
SP-000140	TSG CN Status Report	CN Chairman	6.1	Information	
SP-000141	TSG CN Status Report (PPT version)	CN Chairman	6.1	Information	SP-000151
SP-000142	Response to the liaison from RAN2 on UE radio access capabilities and relation to conformance testing	TSG SA	4.1	Action	
SP-000143	CR 22.011 on network selection	T-Mobil, FT, MaxMobil	5.9	Approval	SP-000167
SP-000144	Draft Report of the 7th TSG RAN meeting	TSG RAN Secretaray	6.2.1	Information	

NUMBER	TITLE	SOURCE	AGENDA ITEM	Document for	REPLACED BY
SP-000145	Unfinished items proposed for inclusion in R99	TSG RAN	6.2.3.	Approval	
SP-000146	Unfinished items not for inclusion in R99	TSG RAN	6.2.3	Approval	
SP-000147	Revised proposal for creation of release 2000 specifications	TSG RAN	7.3	Approval	
SP-000148	3GPP RAN#7 meeting report	TSG RAN Chairman		Information	
SP-000149	Proposed WI: Enable bearer independent circuit-switched network architecture	TSG SA WG2	9	Approval	
SP-000150	Proposed WI: An architecture for Call control and roaming to support IP-based multimedia services in UMTS	TSG SA WG2	9	Approval	
SP-000151	TSG CN Status Report (PPT version)	CN Chairman	6.1	Information	
SP-000152	CR to 22.038 OO Revision 1 Addition of requirements for bearer independent data transfer feature	TSG T2, T3 Chairmen	5.1	Approval	
SP-000153	Open Issues for Release 99 List	TSG T			
SP-000154	List of Specifications not included in Release 1999	MCC	7.2	Information	SP-000172
SP-000155	Approval of OSA for R99	Alcatel, Ericsson, France Telecom, Marconi Communications, Nokia, SIEMENS AG, Telenor,Telia, T-Mobil, Vodafone AirTouch	6.5	Decision	
SP-000156	DRAFT LS to GSM-A on Authentication Algorithm	3GPP TSG SA (drafting person)	5.3	Decision	
SP-000157	Design base for the IP Multimedia (powerpoint presentation)	Ericsson		Discussion	
SP-000158	Establishing working relation with IETF (powerpoint presentation)	Ericsson		Discussion	
SP-000159	Latest developments in MCC	MCC	8	Information	
SP-000160	21.101 v 2.5.0 (replaces SP-000017)	MCC	7.2	Approval	
SP-000161	CR 12.15 GTP' header length fixing, r2	Nokia	5.5.	Approval	
SP-000162	Proposed Work Item description for Global text Telephony	Ericsson	6.6	Approval	
SP-000163	3GPP RAN#7 meeting report	TSG RAN Chairman		Information	
SP-000164	Open Issues for Release 99 List				SP-000166
SP-000165	Invitation to the 3GPP TSG SA WG2 Drafting Meeting on Call Control and its joint session with N1	Nokia		Information	
SP-000166	Open Issues for Release 99 List	Chairman		Discussion	SP-000169
SP-000167	CR 22.011 on network selection	T-Mobil, FT, MaxMobil	5.9	Approval	SP-000170
SP-000168	Draft LS to N1 and T3 On the introduction of the user controlled switched of the priority of the user and operator prefered PLMN list	T-Mobil	5.9	Approval	SP-000171
SP-000169	Open Issues for Release 99 List	Chairman		Discussion	
SP-000170	CR 22.011 on network selection	T-Mobil, FT, MaxMobil	5.9	Approval	
SP-000171	Draft LS to N1 and T3 On the introduction of the user controlled switched of the priority of the user and operator prefered PLMN list	T-Mobil	5.9	Approval	
SP-000172	List of Specifications not included in Release 1999	MCC	7.2	Information	

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Annex D: Status list of Specifications and Reports after TSG SA Meeting #7 ("March 2000 Release")

Type	Number	Title	Ver at TSG#6	Rel	planned/ achieved V3	TSG/ WG	Editor	Comment
TS	21.101	3rd Generation mobile system Release 1999 Specifications	3.0.1	R99	Mar 00	S	John M Meredith	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
TS	21.111	USIM and IC card requirements	3.1.0	R99	April 99	T3	Günter Maringer	TSG#7: 3.1.0
TS	21.133	Security Threats and Requirements	3.1.0	R99	April 99	S3	Per Christoffersson	
TS	21.200	3GPP drafting rules	0.0.1	R99			John M Meredith	Formal doc created after TSG#7.
TR	21.810	Multi-mode UE issues	2.0.0	R99	Mar 00	T2	Sofi Persson	TSG#7:2.0.0 - number changed from 21.910. Not approved. 2.0.0
TR	21.900	3GPP Working methods	3.2.0	R99	April 99	S	John M Meredith	
TR	21.904	UE Capability Requirements (UCR)	3.0.1	R99	Mar 00	T2	Craig Bishop	TSG-T#7 is the new target for approval as part of R99. TSG#7:2.0.0(TP-00
TR	21.905	3G Vocabulary	3.0.0	R99	Mar 00	S1	Michele Zarri	TSG#7:(SP-000072) 3.0.0
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	2.1.0	R99	Mar 00	N2A	David Smith	Not approved N#6.
TS	22.001	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	3.2.0	R99		S1	Tommi Kokkola	Transfer>TSG#5. TSG#7: 3.2.0
TS	22.002	Circuit Bearer Services Supported by a PLMN	3.3.0	R99	Oct 99	S1	Paul Carpenter	TSG#7: 3.3.0
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	3.2.0	R99		S1	Tommi Kokkola	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	R00		S1	Tommi Kokkola	TSG#7: 4.0.0
TS	22.004	General on Supplementary Services	3.2.1	R99	Oct 99	S1	Paul Carpenter	CR@TSG#6. TSG#7: 3.2.0
TS	22.011	Service accessibility	3.2.0	R99	Oct 99	S1	Jean-Paul Gallaire	TSG#7: 3.2.0
TS	22.011	Service accessibility	4.0.0	R00	Oct 99	S1	Jean-Paul Gallaire	TSG#7: 4.0.0
TS	22.016	International Mobile Equipment Identities (IMEI)	3.1.0	R99	Oct 99	S1	Tommi Kokkola	
TS	22.022	Personalisation of GSM ME Mobile functionality specification - Stage 1	3.0.1	R99	Oct 99	S3		
TS	22.024	Description of Charge Advice Information (CAI)	3.0.1	R99	Oct 99	S1	Paul Dwyer	
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	3.3.0	R99	Oct 99	S1	Annukka Toivanen	TSG#7: 3.3.0
TS	22.034	High Speed Circuit Switched Data (HSCSD) - Stage 1	3.2.0	R99	Oct 99	S1	Tommi Kokkola	TSG#7: 3.2.0
TS	22.038	SIM application toolkit (SAT); Stage 1	3.1.0	R99	Oct 99	S1	Bill Robinson	TSG#7: 3.1.0
TS	22.041	Operator Determined Call Barring	3.1.0	R99	Oct 99	S1	Paul Dwyer	
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	3.0.1	R99	Oct 99	S1	Mikael Dahlkvist	CR to 3.0.1 not aprvd.
TS	22.043	Support of Localised Service Area (SoLSA) - Stage 1	3.0.1	R99	Oct 99	S1	Tommi Kokkola	
TS	22.053	Tandem Free Operation of speech codecs; Stage 1 service description	0.1.1	R00	tbd	S4		
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	3.0.1	R99	Oct 99	S1	Mark Cataldo	
TS	22.060	General Packet Radio Service (GPRS); Stage 1	3.3.0	R99	Oct 99	S1	Paul Carpenter	TSG#7: 3.3.0
TS	22.060	General Packet Radio Service (GPRS); Stage 1	4.0.0	R00	Oct 99	S1	Paul Carpenter	TSG#7: 4.0.0
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	3.2.0	R99	Oct 99	S1		TSG#7:(not 3.1.0!) 3.2.0

TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1	3.0.1	R99	Oct 99	S1	Joerg Swetina	
TS	22.071	Location Services (LCS); Stage 1 (T1P1)	3.2.0	R99	Oct 99	S1	Randolph Wholert	
TS	22.072	Call Deflection (CD); Stage 1	3.0.1	R99	Oct 99	S1	Horst Rauch	
TS	22.078	CAMEL; Stage 1	3.3.0	R99	Oct 99	S1	Michel Grech	TSG#7: 3.3.0
TS	22.079	Support of Optimal Routing; Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.081	Line Identification Supplementary Services; Stage 1	3.1.0	R99	Oct 99	S1	Thomas Ahnberg	
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	3.0.1	R99	Oct 99	S1	Jean Paul Gallaire	
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	3.1.0	R99	Oct 99	S1		
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	3.1.0	R99	Oct 99	S1	Paul Dwyer	#5: 3.1.0
TS	22.087	User-to-user signalling (UUS); Stage 1	3.1.0	R99	Oct 99	S1	Christian Braden	#5: 3.0.1, but should have been 3.1.0 to include a CR wrongly attributed to
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	3.1.0	R99	Oct 99	S1	Tommi Kokkola	TSG#7: 3.1.0
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	3.0.1	R99	Oct 99	S1		
TS	22.094	Follow Me Stage 1	3.1.0	R99	Dec 99	S1		Transfer>TSG#6
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)	3.0.1	R99	Oct 99	S1		
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	3.1.0	R99	Oct 99	S1	Paul Dwyer	
TS	22.100	UMTS Phase 1	3.6.0	R99	April 99	S1	Jean-Paul Gallaire	CR@TSG#6; 3.7.0 awaiting attention from MCC expert; who later says 3.5 version. TSG#7: 3.6.0
TS	22.101	UMTS Service principles	3.9.0	R99	April 99	S1	Paul Dwyer	TSG#7: 3.9.0
TS	22.105	Services & Service capabilities	3.8.0	R99	April 99	S1	Wayne Ashwell	TSG#7: 3.8.0
TS	22.115	Service Aspects Charging and billing	3.3.0	R99	April 99	S1	Emanuele Montegrosso	TSG#7: 3.3.0
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment	3.2.0	R99	June 99	S1	Jumoke Ogunbekum	TSG#7: 3.2.0
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	3.2.0	R99	April 99	S1	Nick Samson	
TS	22.135	Multicall Stage 1	3.2.0	R99	Dec 99	S1	Tommi Kokkola	TSG#7: 3.2.0
TS	22.140	Multimedia Messaging Service Stage 1	3.0.0	R99	Dec 99	S1	Gunnar Schmidt	
TR	22.945	Study of provision of fax service in GSM and UMTS	3.0.0	R99	Oct 99	T2 / SMG03	Eric Colban	
TR	22.960	Mobile multimedia services	3.0.1	R99	April 99	S1	Thomas Ahnberg	
TR	22.971	Automatic establishment of roaming relationships	3.1.1	R99	April 99	S1	Emanuele Montegrosso	
TR	22.975	Advanced addressing	3.1.0	R99	April 99	S1	Stephan Kleier	
TR	22.976	Study on PS domain services and capabilities	1.0.0	R00	Dec 00	S1	Marc Cataldo	TSG#7:(SP-000073) 1.0.0
TS	23.002	Network Architecture	3.3.0	R99	Oct 99	S2	Alain Sultan	Open issues to be finalized by TSG#7. TSG#7: 3.3.0
TS	23.003	Numbering, Addressing and Identification	3.4.0	R99	April 99	N2B		TSG#7: 3.4.0
TS	23.007	Restoration procedures	3.3.0	R99	April 99	N2B		TSG#7: 3.3.0
TS	23.008	Organisation of subscriber data	3.3.0	R99	April 99	N2B		TSG#7: 3.3.0
TS	23.009	Handover procedures	3.2.0	R99	April 99	N1		TSG#7: 3.2.0

TS	23.011	Technical Realization of Supplementary Services - General Aspects	3.0.0	R99	April 99	NSS		
TS	23.012	Location management procedures	3.2.0	R99	April 99	N2B		TSG#7: 3.2.0
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	3.1.0	R99	April 99	N1		
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	3.1.0	R99	April 99	N2B	Ian Park	
TS	23.016	Subscriber data management - Stage 2	3.4.0	R99	April 99	N2B		TSG#7: 3.4.0
TS	23.018	Basic Call Handling - Technical realisation	3.4.0	R99	April 99	N2B	Ian Park	TSG#7: 3.4.0
TS	23.032	Universal Geographical Area Description (GAD)	3.1.0	R99	April 99	S2		TSG#7: 3.1.0
TS	23.034	High Speed Circuit Switched Data (HSCSD) - Stage 2	3.2.0	R99	April 99	N1	Ian Harris	TSG#7: 3.2.0
TS	23.038	Alphabets & Language	3.3.0	R99	June 99	T2	Ian Harris	additional CR for R99 on SMS enhanced message content expected at TS evidently not.
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.1.0	R99	June 99	T2	Ian Harris	
TS	23.040	Technical realisation of Short Message Service	3.4.0	R99	June 99	T2	Ian Harris	additional CR for R99 on SMS enhanced message content expected at TS TSG#7: 3.4.0
TS	23.041	Technical Realization of Cell Broadcast Service	3.2.0	R99	Oct 99	T2		additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#
TS	23.042	Compression algorithm for SMS	3.1.0	R99	June 99	T2	Ian Harris	
TS	23.046	Technical realisation of facsimile Group 3 service - non-transparent	3.0.0	<?>				3.0.0 Apr 99
TS	23.054	Shared Interworking Functions - Stage 2	3.0.0	R99	April 99	N3	Tommy Rostö	
TS	23.057	Mobile Station Application Execution Environment (MExE)	3.1.1	R99	Dec 99	T2	Mark Cataldo	TSG#7: 3.1.0
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	3.3.0	R99	Apr 99	S2	Hans-Petter Naper	Open issues to be finalized by TSG#7 (expect 3.2.1 2000-01-12). TSG#7:
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	3.2.0	R99	Oct 99	N2B		TSG#7: 3.2.0
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	3.1.0	R99	April 99	NSS		TSG#7: 3.1.0
TS	23.072	Call Deflection Supplementary Service - Stage 2	3.2.0	R99	April 99	NSS		
TS	23.073	Support of Localised Service Area (SoLSA) - Stage 2	3.0.0	R99	Oct 99	NSS		
TS	23.078	CAMEL Stage 2	3.4.0	R99	April 99	N2A	Christian Hohmann/ Sumio Miyagawa	TSG#7:Aprvl CRs 56r3 & 18 by e-mail by 31-mar-00. 3.4.0
TS	23.079	Support of Optical Routeing - Phase 1 - Stage 2	3.3.0	R99	April 99	N2B	Ian Park	TSG#7: 3.3.0
TS	23.081	Line Identification Supplementary Services - Stage 2	3.0.0	R99	April 99	NSS		
TS	23.082	Call Forwarding (CF) Supplementary Services - Stage 2	3.2.0	R99	April 99	NSS		TSG#7: 3.2.0
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	3.1.0	R99	April 99	NSS		
TS	23.084	MultiParty (MPTY) Supplementary Service - Stage 2	3.1.0	R99	April 99	NSS		
TS	23.085	Closed User Group (CUG) Supplementary Service - Stage 2	3.0.0	R99	April 99	NSS		
TS	23.086	Advice of Charge (AoC) Supplementary Service - Stage 2	3.0.0	R99	April 99	NSS		
TS	23.087	User-to-User Signalling (UUS) - Stage 2	3.0.0	R99	April 99	NSS		
TS	23.088	Call Barring (CB) Supplementary Service - Stage 2	3.1.0	R99	April 99	NSS		TSG#7: 3.2.0
TS	23.090	Unstructured Supplementary Service Data (USSD) - Stage 2	3.1.0	R99	April 99	NSS		
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	3.1.0	R99	April 99	NSS		
TS	23.093	Call Completion to Busy Subscriber (CCBS) - Stage 2	3.1.0	R99	April 99	NSS		
TS	23.094	Follow Me Stage 2	3.1.0	R99	Dec 99	CN		Transfer>TSG#6. TSG#7: 3.1.0
TS	23.096	Name Identification Supplementary Service - Stage 2	3.0.0	R99	April 99	NSS		
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	3.1.1	R99	Oct 99	NSS		TSG#7: 3.1.1
TS	23.101	General UMTS Architecture	3.0.1	R99	June 99	S2	Magnus Olsson	

TS	23.107	Quality of Service, Concept and Architecture	3.2.0	R99	Oct 99	S2	Marc Greis	TSG#7: 3.2.0
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	3.2.0	R99	June 99	N1		TSG#7: 3.2.0
TS	23.110	UMTS Access Stratum Services and Functions	3.4.0	R99	Mar 00	S2	Oscar Lopez – Torres	TSG#7: 3.4.0
TS	23.116	Super Charger - Stage 2	3.0.0	R99	Mar 00	N2B	Nicholas Alen	TSG#7:2.1.0, 3.0.0
TS	23.119	Gateway Location Register (GLR) - Stage2	3.0.0	R99	Mar 00	N2B	Masahiro Sawada	Functionally frozen by CN#6, CN#7 is the new target for approval as part o TSG#7:2.0.0 (NP-000108) 3.0.0
TS	23.121	Architecture Requirements for release 99	3.3.0	R99	June 99	S2	Liz Daniel	TSG#7: 3.3.0
TS	23.122	Non Access Stratum functions related to Mobile Station (MS) in idle mode	3.2.0	R99	April 99	N1		Created at TSG#6, CR@TSG#6, Was briefly 23.022. But regenerated from June99. Expect 3.1.0 to correct erroneous incorporation of a CR. Expect 3. erroneously incorporated CR. TSG#7: 3.2.0
TS	23.127	Virtual Home Environment / Open Service Architecture	3.0.0	R99	Mar 00	S2	Christophe Gourraud	TSG#7:2.0.0 (SP-000089) 3.0.0
TS	23.135	Multicall Stage 2	3.0.0	R99	Mar 00	NSS	Kazuo Mitamura	TSG#7:1.1.0->3.0.0 3.0.0
TS	23.140	Multimedia Messaging Service (MMS)	3.0.1	R99	Mar 00	T2	Gunnar Schmidt	TSG#7: 2.0.0(TP-000028)
TS	23.146	Technical realisation of facsimile Group 3 service - non-transparent	1.1.0	R00	Mar 00	N3	Junichuro Hagiwara	New @ TSG#6, Circuit switched type of Real time Non transparent FAX sp TSG#7:1.1.0, 4.0.0
TS	23.153	Out of Band Transcoder Control - Stage 2	3.0.0	R99	Mar 00	N2B		TSG#7:2.0.0 [argumentin SA over r99 or r00] 3.0.0
TS	23.171	Functional stage 2 description of location services in UMTS	3.0.0	R99	Mar 00	S2	Jan Kåll	TSG#7:2.0.0 (SP-000090), 3.0.0
TR	23.814	Separating RR and MM specific parts of the MS Classmark	3.1.0	R99	Dec 99	N1	F Yokota	TSG #5: 3.0.0: accidentally 3.1.0, but no tech change.
TR	23.821	Architecture Principles for Relase2000	0.0.0	R00	June 00	S2	Christer Lind	
TR	23.908	Technical report on Pre-Paging	3.0.0	R99	June 99	N2B		
TR	23.909	Technical report on the Gateway Location Register	3.0.0	R99	June 99	N2B		
TR	23.910	Circuit Switched Data Bearer Services	3.0.0	R99	Mar 00	N3	Achim Braun / Erik Colban	TSG#6: 1.0.0 TSG#7:2.0.0->3.0.0 3.0.0
TR	23.911	Technical report on Out-of-band transcoder control	3.0.0	R99	Oct 99	N2		
TR	23.912	Technical report on Super-Charger	3.0.0	R99	Oct 99	N2	Ian Sharp	
TR	23.913	UMTS Turbo-Charger	1.0.0	R00	June 00	N1	Sonia Doshi	
TR	23.922	Architecture for an All IP network	1.0.0	R99		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	R99	Dec 99	S2	Elisabeth Hubbard	
TR	23.925	UMTS Core network based ATM transport	0.2.0	R99	Mar 00	S2	Adel Rouz	
TR	23.930	Iu Principles	3.0.0	R99	June 99	S2		
TR	23.972	Circuit Switched Multimedia Telephony	3.0.0	R99	Mar 00	N1	Timo Kauhanen	TSG#7:1.0.0 (NP-000103), 3.0.0
TS	24.002	Public Land Mobile Network (PLMN) Access Reference Configuration	3.0.0	R99	Mar 00	N1	P.Simmons	
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	3.3.0	R99	Oct 99	N1		TSG#7: 3.3.0
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	3.3.0	R99	April 99	N1		CR@TSG#6, editorial mod later. TSG#7: 3.3.0
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	3.0.0	R99	April 99	NSS		
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	3.2.0	R99	Oct 99	N1 / T2		TSG#7: 3.2.0
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	3.0.0	R99	Oct 99	N2B / T2		
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	3.2.0	R99	April 99	N3	Norbert Klehn	

TS	24.030	Location Services LCS Stage 3 SS (MO-LR)	0.0.0	R99		N4 / SMG03	Sonia Doshi	TSG#7:Decision to create.
TS	24.065	General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	3.1.0	R99		N1		2000-02-14: To revert to 2g only 04.65, 24.165 may be required.
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.072	Call Deflection Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	3.2.0	R99	April 99	NSS		T1P1 CR @TSG#6. TSG#7: 3.2.0
TS	24.081	Line Identification Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.082	Call Forwarding Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.084	MultiParty (MPTY) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.085	Closed User Group (CUG) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.086	Advice of Charge (AoC) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.087	User-to-User Signalling (UUS) - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.088	Call Barring (CB) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.090	Unstructured Supplementary Service Data (USSD) - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.093	Call Completion to Busy Subscriber (CCBS) - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.096	Name Identification Supplementary Service - Stage 3	3.0.0	R99	April 99	NSS		
TS	24.135	Multicall Stage 3	3.0.0	R99	Mar 00	NSS	Kazuo Mitamura	TSG#7:1.0.0->3.0.0 3.0.0
TS	25.053	Tandem Free Operation (TFO); Service description; Stage 2		<?>				
TS	25.101	UE Radio transmission and reception (FDD)	3.2.0	R99	Oct 99	R4	Edgar Fernandes	TSG#7: 3.2.0
TS	25.102	UE Radio transmission and reception (TDD)	3.2.0	R99	Oct 99	R4	Meik Kottkamp	TSG#7: 3.2.0
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	3.2.0	R99	Oct 99	R4	Johan Sköld	TSG#7: 3.2.0
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	3.2.0	R99	Oct 99	R4	Meik Kottkamp	TSG#7: 3.2.0
TS	25.113	Base station EMC	3.1.0	R99	Dec 99	R4	Esa Barck	TSG#7: 3.1.0
TS	25.123	Requirements for support of radio resource management (TDD)	3.1.0	R99	Dec 99	R4	Daniele Franceschini	TSG#7: 3.1.0
TS	25.133	Requirements for support of radio resource management (FDD)	3.1.0	R99	Dec 99	R4	Daniele Franceschini	TSG#7: 3.1.0
TS	25.141	Base station conformance testing (FDD)	3.1.0	R99	Dec 99	R4	Takaharu Nakamura	TSG#7: 3.1.0
TS	25.142	Base station conformance testing (TDD)	3.1.0	R99	Dec 99	R4	Juergen Meyer	TSG#7: 3.1.0
TS	25.201	Physical layer -General Description	3.1.0	R99	Oct 99	R1	Antti Toskala	TSG#5: 3.0.0; edito post#6: 3.0.1. TSG#7: 3.1.0
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	3.2.0	R99	Oct 99	R1	Andreas Wilde	TSG#7: 3.2.0
TS	25.212	Multiplexing and channel coding (FDD)	3.2.0	R99	Oct 99	R1	Yoshinori Tanaka	TSG#7: 3.2.0
TS	25.213	Spreading and modulation (FDD)	3.2.0	R99	Oct 99	R1	Peter Chambers	TSG#7: 3.2.0
TS	25.214	Physical layer procedures (FDD)	3.2.0	R99	Oct 99	R1	Takehiro Nakamura	TSG#7: 3.2.0
TS	25.215	Physical layer; Measurements (FDD)	3.2.0	R99	Oct 99	R1		TSG#7: 3.2.0
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	3.2.0	R99	Oct 99	R1	Katsuhiko Hiramatsu	TSG#7: 3.2.0
TS	25.222	Multiplexing and channel coding (TDD)	3.2.0	R99	Oct 99	R1	Jussi Kahtava	TSG#7: 3.2.0
TS	25.223	Spreading and modulation (TDD)	3.2.0	R99	Oct 99	R1	Kenji Ito	TSG#7: 3.2.0

TS	25.224	Pphysical layer procedures (TDD)	3.2.0	R99	Oct 99	R1	Stefan Oestreich	TSG#7: 3.2.0
TS	25.225	Physical layer; Measurements (TDD)	3.2.0	R99	Oct 99	R1		TSG#7: 3.2.0
TS	25.301	Radio Interface Protocol Architecture	3.4.0	R99	April 99	R2	Wolfgang Granzow	TSG#7: 3.4.0
TS	25.302	Services provided by the physical layer	3.4.0	R99	Oct 99	R2	Claudiu Mihailescu	TSG#7: 3.4.0
TS	25.303	UE functions and inter-layer procedures in connected mode	3.3.0	R99	June 99	R2	Mikko J.Rinne	TSG#7: 3.3.0
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	3.2.0	R99	Oct 99	R2	Tommi Leivonen	TSG#7: 3.2.0
TS	25.305	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	3.1.0	R99	Mar 00	R2	David G Steer	TSG#7: 3.1.0
TS	25.321	Medium Access Control (MAC) Protocol Specification	3.3.0	R99	June 99	R2	Armin Sitte	TSG#7: 3.3.0
TS	25.322	Radio Link Control (RLC) Protocol Specification	3.2.0	R99	Oct 99	R2	Daniele Franceschini	TSG#7: 3.2.0
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	3.1.0	R99	Dec 99	R2	Martin Hans	TSG#7: 3.1.0
TS	25.324	Radio Interface for Broadcast/Multicast Services	3.1.0	R99	Dec 99	R2	Peter Krischan	TSG#7: 3.1.0
TS	25.331	Radio Resource Control (RRC) Protocol Specification	3.2.0	R99	Oct 99	R2	Richard Burbridge	TSG#7: 3.2.0
TS	25.371	LMU signalling	0.0.0	R00	Mar 00	R2	M. Mouly	First draft: Jan2000
TS	25.401	UTRAN Overall Description	3.2.0	R99	Oct 99	R3	Jean-Marie Calmel	TSG#7: 3.2.0
TS	25.402	Synchronisation in UTRAN Stage 2	3.1.0	R99	Dec 99	R3	Flavio Piolini	TSG#7: 3.1.0
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	3.2.0	R99	Oct 99	R3	Richard Townend	TSG#7: 3.2.0
TS	25.411	UTRAN Iu interface Layer 1	3.2.0	R99	June 99	R3	Achim Brandt	TSG#7: 3.2.0
TS	25.412	UTRAN Iu interface signalling transport	3.3.0	R99	June 99	R3	Kiran Thakare	TSG#7: 3.3.0
TS	25.413	UTRAN Iu interface RANAP signalling	3.1.0	R99	Dec 99	R3	Jyrki Jussila	TSG#7: 3.1.0
TS	25.414	UTRAN Iu interface data transport & transport signalling	3.3.0	R99	June 99	R3	David Comstock	TSG#7: 3.3.0
TS	25.415	UTRAN Iu interface user plane protocols	3.2.0	R99	Oct 99	R3	Alain Maupin	TSG#7: 3.2.0
TS	25.419	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	3.0.0	R99	Mar 00	R3	carolyn Taylor	TSG#7: 2.0.0 (RP-000113) 3.0.0
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	3.1.0	R99	Dec 99	R3	Kiran Thakare	TSG#7: 3.1.0
TS	25.421	UTRAN Iur interface Layer 1	3.0.0	R99	June 99	R3	Achim Brandt	
TS	25.422	UTRAN Iur interface signalling transport	3.3.0	R99	June 99	R3	Kiran Thakare	TSG#7: 3.3.0
TS	25.423	UTRAN Iur interface RNSAP signalling	3.1.0	R99	Dec 99	R3	Göran Rune	TSG#7: 3.1.0
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	3.2.0	R99	June 99	R3	Nicolas Drevon	TSG#7:cr was to 3.0.0 3.2.0
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	3.1.0	R99	Oct 99	R3	Nicolas Drevon	TSG#7: 3.1.0
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	3.2.0	R99	June 99	R3	Sami Kekki	TSG#7:cr was to 3.0.0 3.2.0
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	3.2.0	R99	Oct 99	R3	Fabio Longoni	TSG#7: 3.2.0
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	3.1.0	R99	Dec 99	R3	Mick Wilson	TSG#7: 3.1.0
TS	25.431	UTRAN Iub interface Layer 1	3.0.0	R99	June 99	R3	Achim Brandt	
TS	25.432	UTRAN Iub interface signalling transport	3.1.0	R99	June 99	R3	Mick Wilson	
TS	25.433	UTRAN Iub interface NBAP signalling	3.1.0	R99	Dec 99	R3	Nobutaka Ishikawa	TSG#7: 3.1.0
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	3.2.0	R99	June 99	R3	Magnus Aldén	TSG#7: 3.2.0
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	3.2.0	R99	Oct 99	R3	Jean-Marie Calmel	TSG#7: 3.2.0
TS	25.442	UTRAN Implementation Specific O&M Transport	3.1.0	R99	Oct 99	R3	Stephan Recker	TSG#7: 3.1.0
TR	25.831	Study Items for future release	0.0.2	R99	Mar 00	R3	Nicolas Drevon	

TR	25.832	Manifestations of Handover and SRNS relocation	3.0.0	R99	Oct 99	R3	Richard Townend	
TR	25.833	Physical layer items not for inclusion in Release 99	1.0.0	R99	Mar 00	R1		
TR	25.921	Guidelines and principles for protocol description and error handling	3.1.0	R99	Dec 99	R2	Jean Dumazy	TSG#7: 3.1.0
TR	25.922	Radio Resource Management Strategies	3.1.0	R99	Dec 99	R2	Nicola Pio Magnani	TSG#7: 3.1.0
TR	25.924	Opportunity Driven Multiple Access (ODMA)	1.0.0	R00	Mar 00	R2	Alan Law	
TR	25.925	Radio Interface for Broadcast/Multicast Services	3.1.0	R99	Dec 99	R2	Peter Krischan	TSG#7: 3.1.0
TR	25.926	UE Radio Access capabilities definition	3.0.0	R99	Mar 00	R2	Johan Lundsjo	TSG#7:2.0.0 (RP-000052), 3.0.0
TR	25.928	1,28Mcps UTRA TDD Physical Layer	0.0.3	R00	Jun 00	R1	Mirko Aksentijevic	anticipated TSG#8; TSG#7:0.0.2 (RP-000091) 0.0.3 (RP-000158) 0.0.3
TR	25.931	UTRAN Functions, examples on signalling procedures	1.2.4	R99	Mar 00	R3	Enrico Scarrone	TSG#7:1.2.4 (RP-000125) 1.2.4
TR	25.941	Document structure	3.1.0	R99	Dec 99	R4	Tadao Takami	
TR	25.942	RF system scenarios	2.1.3	R99	Mar 00	R4	Nadia Benabdallah	TSG#7:2.1.3 2.1.3
TR	25.943	Deployment aspects	2.0.0	R99	Mar 00	R4	Johan Skold	TSG#7:2.0.0 2.0.0
TR	25.944	Channel coding and multiplexing examples	3.0.0	R99	Mar 00	R1	Takehiro Nakamura	TSG#7:1.0.1, 3.0.0
TR	25.945	RF requirements for low chip rate TDD option	0.0.0	R00	Dec 00	R4	Zhang Dai-Jun	
TR	25.990	Vocabulary for UTRAN	3.0.0	R99	Oct 99	R4	Peter Okrah	
TS	26.071	AMR speech Codec; General description	3.0.1	R99	June 99	S4	Erik Ekudden	
TS	26.073	AMR speech Codec; C-source code	3.1.0	R99	Dec 99	S4	Erik Ekudden	approved TSG#6. TSG#7: 3.1.0
TS	26.074	AMR speech Codec; Test sequences	3.0.1	R99	Dec 99	S4	Erik Ekudden	
TS	26.090	AMR speech Codec; Transcoding Functions	3.1.0	R99	June 99	S4	Erik Ekudden	
TS	26.091	AMR speech Codec; Error concealment of lost frames	3.1.0	R99	June 99	S4	Erik Ekudden	
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	3.0.1	R99	June 99	S4	Erik Ekudden	
TS	26.093	AMR speech Codec; Source Controlled Rate operation	3.1.0	R99	June 99	S4	Erik Ekudden	
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	3.0.0	R99	Oct 99	S4		
TS	26.101	AMR speech Codec; Frame Structure	3.1.0	R99	Dec 99	S4	Jari Hagqvist	TSG#7: 3.1.0
TS	26.102	AMR speech Codec; Interface to Iu and Uu	3.1.0	R99	Dec 99	S4	Wiliam Navarro	TSG#7: 3.1.0
TS	26.103	Codec lists	3.0.0	R99	Dec 99	S4	Karl Hellwig	
TS	26.104	AMR speech Codec; Floating point C-Code	0.3.0	R99	Mar 00	S4		New at TSG#6. TSG#7:0.3.0 (SP-000022) 0.3.0
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	3.0.1	R99	June 99	S4	Barry Aronson	
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	3.1.0	R99	June 99	S4	Barry Aronson	
TS	26.115	Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	0.0.1	<?>	Mar 00	S2		Feb00: 0.0.1
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	3.0.0	R99	Dec 99	S4	Ian Goetz	
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	0.0.1	R99	June 00	S4	Ian Goetz	Feb00: 0.0.1
TR	26.901	AMR Wideband Speech Codec Feasibility Study Report	4.0.0	R00		S2		TSG#7:2.0.0 (SP-000024), 4.0.0
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	3.2.0	R99	June 99	S4	Petri Haavisto	
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	3.0.0	R99	Mar 00	S4	Olle Franceschi	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	R99	Mar 00	S4	Harri Honko	

TR	26.915	QoS for Speech and Multimedia Codec; Quantitative performance evaluation of real-time packet switched multimedia services over 3G	3.0.0	R99	Mar 00	S4	Ian Goetz	TSG#7:1.0.0 (SP-000020), 3.0.0
TR	26.920	Architectural Model for the 3G Transcoders	0.1.1	R00	tbd	S4	William Navarro	
TR	26.975	Performance characterization of the AMR speech codec	1.1.0	R99	Mar 00	S4	Erik Ekudden	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)	3.4.0	R99	April 99	N3	Eric Colban	TSG#7: 3.4.0
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	3.3.0	R99	April 99	N3	Eric Colban	TSG#7: 3.3.0
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	3.3.0	R99	April 99	N3	Eric Colban	TSG#7: 3.3.0
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	R99	June 99	T2	Ian Harris	
TS	27.007	AT command set for 3G User Equipment (UE)	3.4.0	R99	June 99	T2	Lars Novak	
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0	R99	June 99	T2	Lars Novak	additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#
TS	27.060	GPRS Mobile Stations supporting GPRS	3.4.0	R99	April 99	N3	Graham Heaton	TSG#7: 3.4.0
TS	27.103	Wide Area Network Synchronisation	3.0.0	R99	Oct 99	T2	Rob Lockhart	
TR	27.901	Report on Terminal Interfaces - An Overview	3.0.0	R99	Dec 99	T2	Thomas Rex	
TR	27.903	Discussion of Synchronisation Standards	3.0.0	R99	Oct 99	T2	Rob Lockhart	
TS	28.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	0.0.0	R00	June 00	S4		
TS	29.002	Mobile Application Part (MAP)	3.4.0	R99	April 99	N2B		TSG#7: 3.4.0
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	3.4.0	R99	April 99	N3	Norbert Klehn	TSG#7: 3.4.0
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)	3.2.0	R99	Oct 99	N2B		TSG#7: 3.2.0
TS	29.011	Signalling Interworking for Supplementary Services	3.0.0	R99	April 99	NSS		
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	3.0.0	R99	Oct 99	NSS		
TS	29.016	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	3.0.0	R99	April 99	N1		
TS	29.018	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	3.3.0	R99	April 99	N1		TSG#7: 3.3.0
TS	29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	3.4.0	R99	April 99	N2B	Tom Eric Ask	TSG#7: 3.4.0
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	3.3.0	R99	April 99	N3	Graham Heaton	TSG#7: 3.3.0
TS	29.078	CAMEL; Stage 3	3.3.0	R99	Oct 99	N2A	Jan Ellsberger	CR@TSG#6, note version changes are not available, 3.1.0 was not created 3.4.0
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	3.0.0	R99	Mar 00	N2B	Shinichiro Aikawa	Functionally frozen by CN#6, CN#7 is the new target for approval as part o 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	3.0.0	R99	Mar 00	N2B	Kazuo Mitamura	Functionally frozen by CN#6, CN#7 is the new target for approval as part o TSG#7:2.0.0 3.0.0
TR	29.198	Open Services Architecture API part 1	1.0.0	<?>		CN	Yun Chao Hu	TSG#7:1.0.0 (TP-000056) 1.0.0
TR	29.998	Open Services Architecture API part 2	1.0.0	<?>		CN	Yun Chao Hu	TSG#7:1.0.0 (TP-000057) 1.0.0
TR	30.504	Work Plan and Study Items - RAN WG4	2.2.0	<?>	Mar 00	R4	Masaaki Iwasa	
TR	30.531	Work Plan and Study Items - RAN WG3	0.7.0	<?>	Mar 00	R3	Björn Ehrstedt	TSG#7:0.7.0 (RP-000142) 0.7.0
TR	30.801	Overall Project Plan	1.1.0	<?>	Mar 00	S2	Alain Sultan	
TR	30.802	Project plan on Bearer Services and QoS	1.0.0	<?>	Mar 00	S2	Oscar Lopez-Torres	
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	1.0.0	<?>	Mar 00	S2	François Courau	
TR	30.806	Project plan on Location based services	1.0.0	<?>	Mar 00	S2	Jan Kåll	
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	1.0.0	<?>	Mar 00	S2	Ulrich Dropmann	
TR	30.810	Project plan on Security	1.0.0	<?>	Mar 00	S2	Chris Pudney	
TR	30.812	Project plan on Services and Service platforms	1.0.0	<?>	Mar 00	S2	Rob Schmersel	
TS	31.101	UICC-terminal interface; Physical and logical characteristics	3.1.0	R99	Dec 99	T3	Rune Lindholm / Peter Vestergaard	TSG#7: 3.1.0
TS	31.102	Characteristics of the USIM Application	3.1.0	R99	Dec 99	T3	M. Kobayashi and Ch. Heim	TSG#7: 3.1.0
TS	31.110	Numbering system for telecommunication IC card applications	3.1.0	R99	Dec 99	T3	Christian Dietrich	TSG#7: 3.1.0
TS	31.111	USIM Application Toolkit (USAT)	3.0.0	R99	Mar 00	T3	Kristian Woodsend	TSG#7: 3.0.0
TS	31.120	Terminal tests for the UICC Interface	0.0.0	R99	June 00	T3	Klaus Vedder	
TS	31.121	UICC Test Specification	0.0.0	R99	June 00	T3	Klaus Vedder	
TS	32.005	GSM call and event data for the Circuit Switched (CS) domain	3.0.0	R99	Jun 00	S5	Ian Deakin	Title change. TSG#7:
TS	32.008	Subscriber and Equipment trace		<?>		S5	Kai Sjöblom	
TS	32.015	GSM call and event data for the Packet Switched (PS) domain	3.1.1	R99	Jun 00	S5	Ian Deakin	Title change. TSG#7: 3.1.0
TS	32.101	3G Telecom Management principles and high level requirements	3.1.1	R99	Mar 00	S5	Michael Truss	Outstanding R99 issues. TSG#7: 3.1.0
TS	32.102	3G Telecom Management Architecture	3.1.1	R99	Mar 00	S5	Tommy Berggren	Outstanding R99 issues. TSG#7: 3.1.0
TS	32.104	3G Performance Management	3.1.1	R99	Mar 00	S5	Karl-Heinz Nenner	Outstanding R99 issues. TSG#7: 3.1.0
TS	32.105	3G Charging call event data	0.0.1	R99	June 00	S5	Ian Deakin	New at TSG#6. TSG#7:
TS	32.106	3G Configuration Management	3.0.1	R99	Mar 00	S5	Thomas Tovinger	Outstanding R99 issues. TSG#7:2.0.0 3.0.0
TS	32.111	3G Fault Management	3.0.1	R99	Jun 00	S5	Gaetano Cicchitto	Outstanding R99 issues. TSG#7:2.0.0 3.0.0
TS	33.102	Security Architecture	3.4.0	R99	Mar 00	S3	Bart Vinck	TSG#7: 3.4.0
TS	33.103	Security Integration Guidelines	3.2.0	R99	Oct 99	S3	Bart Vinck	TSG#7: 3.2.0
TS	33.105	Cryptographic Algorithm requirements	3.3.0	R99	June 99	S3	Bart Vinck	TSG#7: 3.3.0
TS	33.106	Lawful interception requirements	3.0.0	R99	Jun 00	S3	Bart Vinck	TSG#7:2.0.0(SP-000013), 3.0.0
TS	33.107	Lawful interception architecture and functions	3.0.0	R99	Dec 99	S3		New at TSG#6 approved
TS	33.120	Security Objectives and Principles	3.0.0	R99	April 99	S3	Tim Wright	
TR	33.900	Guide to 3G security	1.2.0	R99	Mar 00	S3		New at TSG#6
TR	33.901	Criteria for cryptographic Algorithm design process	3.0.0	R99	June 99	S3	Vinck Bart	
TR	33.902	Formal Analysis of the 3G Authentication Protocol	3.1.0	R99	Oct 99	S3		
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	R99	Mar 00	S3	M. Walker	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	R99	Jun 00	S3	M. Walker	TSG#7: refered to in 33.908.
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	1.0.1	R99	June 00	T1	Nouhman Chalabi	TSG#7:(TP-000032) 1.0.0, 1.0.1
TS	34.109	Logical Test Interface (TDD and FDD)	1.2.0	R99	June 00	T1 / R2	Leif Mattisson	Feb00: 1.1.0 TSG#7: 1.2.0
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	3.0.1	R99	Mar 00	T1	Kenji Higuchi	RAN documents are undergoing substantial changes and 34.121 can there stabilized to TSGT#7. TSG#7: 2.0.0(TP-000033), 3.0.0
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	1.2.1	R99	June 00	T1	Thomas Maucksch	TSG#7: 1.2.0
TS	34.123-1	UE Conformance Specification, Part 1 – Conformance specification	1.0.1	R99	June 00	T1	Lidia Salmeron	
TS	34.123-2	UE Conformance Specification, Part 2 – ICS	1.0.1	R99	June 00	T1	Shicheng Hu	TSG#7: 1.0.1
TS	34.123-3	UE Conformance Specification, Part 3 – Abstract Test suites	0.0.0	R99	Mar 01	T1	Shicheng Hu	
TS	34.124	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	3.0.0	R99	Mar 00	T1	Ole Soerensen	TSG#7: 2.0.1(SP-000034), 3.0.0
TR	34.907	Report on electrical safety requirements and regulations	3.0.0	R99	Oct 99	T2	Eiji Iimori	
TR	34.910	Conformance Test specifications – Relevant for Regulatory use	0.0.1	R00	Mar 01	T1	Bjarke Nielsen	
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0	R99	June 99	T2	Sven Johnsson	
TR	34.926	Table of International EMC requirements	0.0.0	R00	Jun 00	T1	John Fenn	
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	3.1.0	R99		S3	M. Walker	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	R99		S3	M. Walker	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	R99		S3	M. Walker	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	R99		S3	M. Walker	TSG#7: 3.1.0 ex SAGE 3.1.0

Annex E: List of Change Requests and their status after TSG SA Meeting #7

E.1 CRs from SA WG1:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000069	22.001	002		3.1.1	R99	Editorial modification for change of SMS-CB to CBS	approved	D	3.2.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)
SP-000053	22.001	003		3.1.1	R99	Procedure for call progress indications	approved	C	3.2.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)
SP-000054	22.002	005		3.2.0	R99	Corrections on 3,1 kHz Audio support	approved	F	3.3.0	Circuit Bearer Services Supported by a PLMN
SP-000069	22.003	002		3.1.0	R99	Editorial modification for change of SMS-CB to CBS and to correct the references	approved	D	3.2.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)
SP-000071	22.003	003		3.1.0	R00	Addition of Wideband AMR	approved	B	4.0.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)
SP-000068	22.004	003		3.1.0	R99	Introduction of Multicall as Supplementary Service	approved	F	3.2.0	General on Supplementary Services
SP-000055	22.011	012		3.1.0	R99	Corrections to 22.011	approved	F	3.2.0	Service accessibility
SP-000055	22.011	013		3.1.0	R99	Removal of "Home Environment Specific Network Selection Procedure"	approved	C	3.2.0	Service accessibility
SP-000071	22.011	014		3.1.0	R00	Network Selection	approved	B	4.0.0	Service accessibility
SP-000056	22.030	007		3.2.0	R99	Introduction of Service Code 214 for “Follow Me”	approved	B	3.3.0	Man-Machine Interface (MMI) of the Mobile Station (MS)
SP-000056	22.030	008		3.2.0	R99	MMI(Man-Machine interface) of Multicall	approved	B	3.3.0	Man-Machine Interface (MMI) of the Mobile Station (MS)
SP-000057	22.034	003		3.1.0	R99	CR on HSCSD changes for 3GPP	approved	C	3.2.0	High Speed Circuit Switched Data (HSCSD) - Stage 1
SP-000058	22.038	001		3.0.0	R99	USIM/SIM Application Toolkit, Service Description, Stage 1	approved	D	3.1.0	SIM application toolkit (SAT); Stage 1
SP-000058	22.038	002		3.0.0	R99	Addition requirements for bearer independent data transfer feature	Revised	B		SIM application toolkit (SAT); Stage 1
SP-000152	22.038	002	1	3.0.0	R99	Addition requirements for bearer independent data transfer feature	approved	B	3.1.0	SIM application toolkit (SAT); Stage 1
SP-000059	22.060	009		3.2.0	R99	Restructuring to improve clarity and align with Stage 2 description for Release 99	approved	F	3.3.0	General Packet Radio Service (GPRS); Stage 1
SP-000060	22.060	010		3.2.0	R99	Support of encryption in GPRS mobile stations	approved	F	3.3.0	General Packet Radio Service (GPRS); Stage 1
SP-000071	22.060	011		3.2.0	R00	The support of Push Services for GPRS	approved	B	4.0.0	General Packet Radio Service (GPRS); Stage 1
SP-000061	22.066	002		3.0.1	R99	PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability	approved	B	3.2.0	Support of Mobile Number Portability (MNP); Stage 1
SP-000062	22.078	032	1	3.2.0	R99	Call gapping / congestion control in HPLMN only	approved	F	3.3.0	CAMEL; Stage 1
SP-000062	22.078	033		3.2.0	R99	In-band user interaction for dialled services in CAMEL ph3	approved	F	3.3.0	CAMEL; Stage 1
SP-000062	22.078	034		3.2.0	R99	Correction of GPRS session description	approved	F	3.3.0	CAMEL; Stage 1

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000062	22.078	035		3.2.0	R99	Reduced scope of CAMEL Phase 3 in release 99	approved	F	3.3.0	CAMEL; Stage 1
SP-000123	22.078	036		3.2.0	R99	Correction of announcement capabilties	approved	F	3.3.0	CAMEL; Stage 1
SP-000063	22.090	002		3.0.1	R99	UCS2 character set for MMI mode	approved	C	3.1.0	Unstructured Supplementary Service Data (USSD); Stage 1
SP-000064	22.100	029		3.5.0	R99	SoLSA not applicable for UMTS release 99	approved	F	3.6.0	UMTS Phase 1
SP-000060	22.101	030		3.8.0	R99	Support of encryption in GPRS mobile stations	approved	A	3.9.0	UMTS Service principles
SP-000070	22.101	031		3.8.0	R99	Fixed Dialing Number (FDN)	approved	F	3.9.0	UMTS Service principles
	22.101	032		3.8.0	R99	Types of emergency calls	Withdrawn	B		UMTS Service principles
SP-000065	22.105	022		3.7.0	R99	Correction related to FAX support	approved	F	3.8.0	Services & Service capabilities
SP-000065	22.105	023		3.7.0	R99	Clarification of SoLSA support	approved	C	3.8.0	Services & Service capabilities
SP-000066	22.115	004		3.1.0	R99	Clarifications to 22.115	approved	D	3.2.0	Service Aspects Charging and billing
SP-000067	22.121	005		3.1.0	R99	Clarification of service capabilities	approved	F	3.2.0	Provision of Services in UMTS - The Virtual Home Environment
SP-000067	22.121	006		3.1.0	R99	Information Transfer service capability feature	approved	C	3.2.0	Provision of Services in UMTS - The Virtual Home Environment
SP-000068	22.135	004		3.1.0	R99	Clarification of requirement for Multicall	approved	F	3.2.0	Multicall Stage1

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	status	Cat	New version	Specification Title
SP-000060	02.07	A026		6.1.0	R97	Support of encryption in GPRS mobile stations	approved	A	6.2.0	Mobile Station (MS) Features
SP-000060	02.07	A027		7.1.0	R98	Support of encryption in GPRS mobile stations	approved	A	7.2.0	Mobile Station (MS) Features
SP-000059	02.60	A025		7.2.0	R98	Corrections on Point-To-Point Octet Stream Service	approved	F	7.3.0	General Packet Radio Service Stage 1 Description
SP-000061	02.66	A001		7.0.1	R98	PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability	approved	B	7.1.0	Support of Mobile Number Portability (MNP); Service description; Stage 1

E.2 CRs from SA WG2:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000084	23.002	004		3.2.0	R99	General improvements of the split between section 3 (Definitions and abbreviations) and section 4 (The entities of the mobile system).	approved	F	3.3.0	Network Architecture
SP-000084	23.002	005	1	3.2.0	R99	Re-ordering of section 4 (The entities of the mobile system).	approved	D	3.3.0	Network Architecture
SP-000084	23.002	006		3.2.0	R99	Re-ordering of section 5 (Configuration of a Public Land Mobile Network).	approved	D	3.3.0	Network Architecture
SP-000084	23.002	007		3.2.0	R99	Re-ordering of section 6 ("PLMN interfaces").	approved	D	3.3.0	Network Architecture
SP-000084	23.002	008		3.2.0	R99	Simplification of the figure 1 (configuration of a PLMN and interfaces)	approved	D	3.3.0	Network Architecture
SP-000084	23.002	009	1	3.2.0	R99	Introduction of CAMEL aspects.	approved	B	3.3.0	Network Architecture
SP-000084	23.002	011	1	3.2.0	R99	Introduction of CBS aspects	approved	B	3.3.0	Network Architecture
SP-000084	23.002	012	2	3.2.0	R99	Add LCS enhancements	approved	C	3.3.0	Network Architecture
SP-000084	23.002	013	4	3.2.0	R99	Define GSM LCS parts and add UMTS LCS "hooks" in the network architecture.	approved	C	3.3.0	Network Architecture
SP-000084	23.002	014	1	3.2.0	R99	Incorporation of network architecture material coming from section 4 of 29.002	approved	F	3.3.0	Network Architecture
SP-000085	23.032	001		3.0.0	R99	Aligning 23.032 with changes in 03.32	approved	B	3.1.0	Universal Geographical Area Description (GAD)
SP-000086	23.060	052	2	3.2.1	R99	QoS Related Updates	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000135	23.060	065	5	3.2.1	R99	Radio bearer release and PDP context interaction	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	080	2	3.2.1	R99	GPRS Interworking With CAMEL	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	085		3.2.1	R99	Storage of Aggregated BSS QoS Profile in the SGSN	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	086		3.2.1	R99	Modification to selective routing area update procedure	approved	C	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	088	1	3.2.1	R99	QoS delay budget in CN and RAN.	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	089	1	3.2.1	R99	Release of RABs Without PDP Context Modification	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	090		3.2.1	R99	NSAPI as RAB identifier for packet	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	091		3.2.1	R99	Correction to GPRS/CAMEL interworking.	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	092		3.2.1	R99	IP Multicast support in GPRS.	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	094		3.2.1	R99	Removal of the description of the cell reselection algorithm from 23.60	approved	F	3.3.0	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-000086	23.060	096		3.2.1	R99	Removal of PDP Type X.25 support	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	097	1	3.2.1	R99	AAL5 description	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	098		3.2.1	R99	Removal of Anonymous Access support	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	099		3.2.1	R99	Removal of TCP support in the packet domain PLMN backbone network	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	100	1	3.2.1	R99	IPv6 as optional Iu and Gn protocol	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	101	1	3.2.1	R99	Common GPRS and UMTS PS attach procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000135	23.060	102	3	3.2.1	R99	Classmark handling	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	103	1	3.2.1	R99	UMTS Authentication	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	104	3	3.2.1	R99	Hard handover with switching in CN	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	105	1	3.2.1	R99	Transfer of present RA information from UTRAN to SGSN	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	106	2	3.2.1	R99	Service Request	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	107		3.2.1	R99	Correction to Address allocation procedure for PDP Type IPv 6	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	108	1	3.2.1	R99	Aligning SRNC relocation procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	109	1	3.2.1	R99	PDCP sequence numbers in SRNC relocation	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	110	1	3.2.1	R99	RAB Assignment Description	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	112	1	3.2.1	R99	Removing NSAPI from GTP-C response messages	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	114	1	3.2.1	R99	Clarification of RANAP and GTP procedures in SRNS relocation	approved	C	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	116		3.2.1	R99	Subscriber and equipment trace for PS domain	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	119		3.2.1	R99	Extension of Maximum N-PDU size in case of PDP type = PPP	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	121		3.2.1	R99	User control screening in R99	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	122		3.2.1	R99	Improving charging efficiency	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	123		3.2.1	R99	Removal of P-TMSI Signature in Service Request	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	125	1	3.2.1	R99	Clarification of unsuccessful RAB assignment	approved	F	3.3.0	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-000086	23.060	127	1	3.2.1	R99	Volume based charging	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	128		3.2.1	R99	PDCP sequence numbers in SRNC relocation and inter-system handover	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	129	2	3.2.1	R99	Combined Cell Update/URA Update and SRNS Relocation	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	130	2	3.2.1	R99	Serving RNC Relocation Procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	131	1	3.2.1	R99	Support for combined procedures also at UMTS<->GSM Inter System Change	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	133	1	3.2.1	R99	PDP Type to RNC Context	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	134	1	3.2.1	R99	PDP Context modification on RAB Release	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	135		3.2.1	R99	Clarification on Iu interface	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	136	1	3.2.1	R99	Adaptation of 23.060 terminology with the N1 agreement	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	138		3.2.1	R99	Deletion of GGSN TEID in the update PDP context request message	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	139		3.2.1	R99	Action upon reception of GTP-u PDU in the case of SGSN/GGSN failure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	140		3.2.1	R99	Clarification of intra-SGSN inter-system change to GPRS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	141	1	3.2.1	R99	Clarification of intra-SGSN inter-system change to UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	142		3.2.1	R99	Clarification of inter-SGSN inter-system change to GPRS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000135	23.060	143		3.2.1	R99	Clarification of inter-SGSN inter-system change to UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	144	1	3.2.1	R99	Clarification of MS information procedure in UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	145		3.2.1	R99	Change to the IP-V6 address allocation	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	23.060	146	1	3.2.1	R99	Correction to stateless address autoconfiguration procedure for PDP Type IPv6	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000087	23.107	012	1	3.1.1	R99	Editorial modification of the QoS attributes units	approved	D	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	013	1	3.1.1	R99	Generation of QoS parameters for CS data services for call setup and interworking	approved	C	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	014		3.1.1	R99	Clarification of Inter-release handover	approved	F	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	016		3.1.1	R99	Extension of Maximum N-PDU size	approved	F	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	017	1	3.1.1	R99	Correction of value ranges	approved	F	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	018		3.1.1	R99	Correction of maximum bit rate values	approved	F	3.2.0	Quality of Service, Concept and Architecture
SP-000087	23.107	019	1	3.1.1	R99	Clarification of the Allocation/Retention Priority Attribute	approved	F	3.2.0	Quality of Service, Concept and Architecture
SP-000088	23.121	053	1	3.2.0	R99	Tunnel Endpoint Identifier	approved	F	3.3.0	Architecture Requirements for release 99
SP-000088	23.121	054		3.2.0	R99	Inter 3G MSC SRNS relocation	approved	C	3.3.0	Architecture Requirements for release 99

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000088	23.121	055		3.2.0	R99	Change of the reference point name according to 23.002	approved	F	3.3.0	Architecture Requirements for release 99
SP-000088	23.121	056		3.2.0	R99	Deletion of SRNS relocation procedure from 23.121	approved	D	3.3.0	Architecture Requirements for release 99
SP-000088	23.121	057	1	3.2.0	R99	Removal of "FFS" items	approved	D	3.3.0	Architecture Requirements for release 99
SP-000088	23.121	058		3.2.0	R99	Removal of L3CE references	approved	D	3.3.0	Architecture Requirements for release 99
SP-000088	23.121	059		3.2.0	R99	removal of detailed text on handover	approved	D	3.3.0	Architecture Requirements for release 99

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	status	Cat	New version	Specification Title
SP-000086	03.60	A183		7.3.0	R98	Removal of the description of the cell reselection algorithm	approved	F	7.4.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	03.60	A184		6.6.0	R97	Removal of the description of the cell reselection algorithm	approved	F	6.7.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-000086	03.60	A185		7.3.0	R98	Extension of Maximum N-PDU size in case of PDP type = PPP	approved	F	7.4.0	General Packet Radio Service (GPRS) Service description; Stage 2

E.3 CRs from SA WG3:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000112	33.102	043		3.3.1	R99	Clarification on cipher key and integrity key lifetime lifetime	approved	C	3.4.0	Security Architecture
SP-000112	33.102	044		3.3.1	R99	local Authenication and connection establishment	approved	D	3.4.0	Security Architecture
SP-000075	33.102	045	3	3.3.1	R99	Refinement EUIC	withdrawn?	F		Security Architecture
SP-000077	33.102	047	2	3.3.1	R99	Interoperation and intersystem handover/change between UTRAN and GSM BSS	approved	C	3.4.0	Security Architecture
SP-000112	33.102	048		3.3.1	R99	Clarification on the reuse of Avs	approved	C	3.4.0	Security Architecture
SP-000112	33.102	049		3.3.1	R99	Authentication failure reporting	approved	F	3.4.0	Security Architecture
SP-000112	33.102	050		3.3.1	R99	Refinement of Cipher key and integrity key lifetime	approved	F	3.4.0	Security Architecture
SP-000046	33.102	051	1	3.3.1	R99	Conversion function c3 at USIM	approved	F	3.4.0	Security Architecture
SP-000112	33.102	052	1	3.3.1	R99	Trigger points of AFR during AKA	approved	F	3.4.0	Security Architecture
SP-000112	33.102	053	1	3.3.1	R99	Removal of EUIC from 'Authentication Data Request' procedure	approved	F	3.4.0	Security Architecture
SP-000112	33.102	054	1	3.3.1	R99	Clarification of the scope	approved	F	3.4.0	Security Architecture
SP-000112	33.102	055		3.3.1	R99	SQN Generation Requirements	approved	F	3.4.0	Security Architecture
SP-000112	33.102	056	1	3.3.1	R99	Identification of temporary identities	approved	F	3.4.0	Security Architecture
SP-000112	33.102	057		3.3.1	R99	Cipher key and integrity key selection	approved	F	3.4.0	Security Architecture
SP-000112	33.102	058	1	3.3.1	R99	Clarification on ciphering and integrity mode setting	approved	F	3.4.0	Security Architecture
SP-000112	33.102	059		3.3.1	R99	Clarification on when integrity protection is started	approved	F	3.4.0	Security Architecture
SP-000112	33.102	061	1	3.3.1	R99	Unsuccessful integrity check	approved	F	3.4.0	Security Architecture
SP-000112	33.102	062	1	3.3.1	R99	Clarification on signalling messages to be integrity protected	approved	F	3.4.0	Security Architecture
SP-000112	33.102	063	1	3.3.1	R99	Clarification of the HFN handling	approved	F	3.4.0	Security Architecture
SP-000077	33.102	064	2	3.3.1	R99	Distribution and Use of Authentication Data between VLRs/SGSNs	approved	F	3.4.0	Security Architecture
SP-000077	33.102	066	1	3.3.1	R99	Ciphering	approved	C	3.4.0	Security Architecture
SP-000077	33.102	067	1	3.3.1	R99	Data integrity	approved	C	3.4.0	Security Architecture
SP-000112	33.102	071	1	3.3.1	R99	Use of default IK at emergency call with no (U)SIM or when authentication has failed	~~approved~~ rejected	F	3.4.0	Security Architecture
SP-000112	33.102	072		3.3.1	R99	Clarification on ciphering and integrity protection at intersystem handover	approved	F	3.4.0	Security Architecture
SP-000044	33.102	073	1	3.3.1	R99	MAP Security	withdrawn?	D		Security Architecture
SP-000112	33.102	074		3.3.1	R99	Clarification about CK and IK which are transmitted in clear over the Iu-interface	approved	B	3.4.0	Security Architecture
SP-000112	33.102	076		3.3.1	R99	Cipher key and integrity key lifetime	approved	F	3.4.0	Security Architecture
SP-000112	33.102	077		3.3.1	R99	Cipher key and integrity key setting	approved	F	3.4.0	Security Architecture
SP-000112	33.102	079	1	3.3.1	R99	Local Authenication and connection establishment	approved	C	3.4.0	Security Architecture
SP-000075	33.103	005	2	3.1.0	R99	Refinement EUIC (according to TS 33.102)	withdrawn?	F		Security Integration Guidelines
SP-000047	33.103	006		3.1.0	R99	Alignment of integration Guidelines with Security Architecture at S3#10	approved	F	3.2.0	Security Integration Guidelines
SP-000048	33.105	006		3.2.0	R99	Authentication and key agreement	approved	F	3.3.0	Cryptographic Algorithm requirements
SP-000048	33.105	007		3.2.0	R99	Editorial changes to Terminology	approved	F	3.3.0	Cryptographic Algorithm requirements

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000075	33.105	008		3.2.0	R99	Refinement of EUIC for consistency with 33.102	withdrawn?	F		Cryptographic Algorithm requirements
SP-000048	33.105	009		3.2.0	R99	Ciphering	approved	C	3.3.0	Cryptographic Algorithm requirements
SP-000048	33.105	010		3.2.0	R99	Data integrity	approved	D	3.3.0	Cryptographic Algorithm requirements

E.4 CRs from SA WG4:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000025	26.073	001		3.0.0	R99	Avoidance of pulse cancellation in FCB excitation	approved	A	3.1.0	AMR speech Codec; C-source code
SP-000025	26.101	001		3.0.0	R99	Correction of indices in Annex B table	approved	F	3.1.0	AMR speech Codec; Frame Structure
SP-000025	26.101	002		3.0.0	R99	Addition of comfort noise bit ordering	approved	F	3.1.0	AMR speech Codec; Frame Structure
SP-000025	26.101	003		3.0.0	R99	Correction of table indexing for AMR Core Frame class division	approved	F	3.1.0	AMR speech Codec; Frame Structure
SP-000025	26.101	004		3.0.0	R99	Clarification of bit transmission order for AMR frame structure parameters for AMR IF1	approved	F	3.1.0	AMR speech Codec; Frame Structure
SP-000025	26.102	001	3	3.0.0	R99	Introduction of QoS parameters used at RAB assignment	approved	C	3.1.0	AMR speech Codec; Interface to Iu and Uu
SP-000025	26.102	002		3.0.0	R99	Introduction of different RFCS set on Iu User Plane	approved	C	3.1.0	AMR speech Codec; Interface to Iu and Uu
SP-000025	26.102	003	2	3.0.0	R99	Introduction of Time Alignment	approved	B	3.1.0	AMR speech Codec; Interface to Iu and Uu

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	status	Cat	New version	Specification Title
SP-000025	06.73	A021		7.3.0	R98	Avoidance of pulse cancellation in FCB excitation	approved	F	7.4.0	ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec
SP-000025	06.75	A002		7.1.0	R98	Threshold and Hysteresis for Exp. 4a and 4b	approved	D	7.2.0	AMR performan characterisation
SP-000025	06.75	A003		7.1.0	R98	Introduction of Annex D (AMR Performances as a function of FER/RBER)	approved	D	7.2.0	AMR performan characterisation
SP-000026	08.62	A002	1	7.0.0	R98	TFO Message Extensibility	approved	C	7.1.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3

E.5 CRs from SA WG5:

3GPP CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-000017	32.015	001		3.0.0	R99	IP v6 support GTP'	revised?	F		GSM charging PS domain
SP-000017	32.015	002	1	3.0.0	R99	GTP' header length fix	approved	F	3.1.0	GSM charging PS domain
SP-000017	32.015	003		3.0.0	R99	Charging Characteristics to CDRs	approved	B	3.1.0	GSM charging PS domain
SP-000017	32.015	004		3.0.0	R99	include MSISDN in S,G,M-CDR	approved	B	3.1.0	GSM charging PS domain
SP-000014	32.101	001		3.0.0	R99	Clarify use of X.25 as a Network Layer Protocol	approved	F	3.1.0	3G Telecom Management principles and high level requirements
SP-000014	32.101	002		3.0.0	R99	Correction of IRP-related terminology	approved	F	3.1.0	3G Telecom Management principles and high level requirements
SP-000014	32.101	003		3.0.0	R99	Clarification of Software Management	approved	C	3.1.0	3G Telecom Management principles and high level requirements
SP-000015	32.102	001		3.0.0	R99	resolving remaining R99 inconsistency between 32.101 & 32.102	approved	F	3.1.0	3G Telecom Management architecture
SP-000015	32.102	002		3.0.0	R99	Correction of IRP-related terminology	approved	F	3.1.0	3G Telecom Management architecture
SP-000016	32.104	001		3.0.0	R99	Reduction of measurement job advance period	approved	C	3.1.0	3G Performance Management
SP-000016	32.104	002		3.0.0	R99	PM file format - ASN.1 description	approved	C	3.1.0	3G Performance Management

GSM CRs

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	status	Cat	New version	Specification Title
SP-000017	12.15	A018		7.4.0	R98	IP v6 support GTP'	approved	F	7.5.0	General Packet Radio Service (GPRS); GPRS Charging
SP-000017	12.15	A019	1	7.4.0	R98	GTP' header length fix	rejected	F		General Packet Radio Service (GPRS); GPRS Charging

Annex F: Status of all 3GPP CRs after TSG SA #7 Meeting:

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
TP-000017	21.111	002		3.0.1	R99	Alignment with 33.102 regarding the data integrity of signalling elements and user identity confidentiality	approved	F	3.1.0	USIM and IC card requirements	T3
SP-000069	22.001	002		3.1.1	R99	Editorial modification for change of SMS-CB to CBS	approved	D	3.2.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	S1
SP-000053	22.001	003		3.1.1	R99	Procedure for call progress indications	approved	C	3.2.0	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	S1
SP-000054	22.002	005		3.2.0	R99	Corrections on 3,1 kHz Audio support	approved	F	3.3.0	Circuit Bearer Services Supported by a PLMN	S1
SP-000069	22.003	002		3.1.0	R99	Editorial modification for change of SMS-CB to CBS and to correct the references	approved	D	3.2.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
SP-000071	22.003	003		3.1.0	R00	Addition of Wideband AMR	approved	B	4.0.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
SP-000068	22.004	003		3.1.0	R99	Introduction of Multicall as Supplementary Service	approved	F	3.2.0	General on Supplementary Services	S1
SP-000055	22.011	012		3.1.0	R99	Corrections to 22.011	approved	F	3.2.0	Service accessibility	S1
SP-000055	22.011	013		3.1.0	R99	Removal of "Home Environment Specific Network Selection Procedure"	approved	C	3.2.0	Service accessibility	S1
SP-000071	22.011	014		3.1.0	R00	Network Selection	approved	B	4.0.0	Service accessibility	S1
SP-000056	22.030	007		3.2.0	R99	Introduction of Service Code 214 for “Follow Me”	approved	B	3.3.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	S1
SP-000056	22.030	008		3.2.0	R99	MMI(Man-Machine interface) of Multicall	approved	B	3.3.0	Man-Machine Interface (MMI) of the Mobile Station (MS)	S1
SP-000057	22.034	003		3.1.0	R99	CR on HSCSD changes for 3GPP	approved	C	3.2.0	High Speed Circuit Switched Data (HSCSD) - Stage 1	S1
SP-000058	22.038	001		3.0.0	R99	USIM/SIM Application Toolkit, Service Description, Stage 1	approved	D	3.1.0	SIM application toolkit (SAT); Stage 1	S1
SP-000058	22.038	002		3.0.0	R99	Addition requirements for bearer independent data transfer feature	Revised	B		SIM application toolkit (SAT); Stage 1	S1
SP-000152	22.038	002	1	3.0.0	R99	Addition requirements for bearer independent data transfer feature	approved	B	3.1.0	SIM application toolkit (SAT); Stage 1	S1
SP-000059	22.060	009		3.2.0	R99	Restructuring to improve clarity and align with Stage 2 description for Release 99	approved	F	3.3.0	General Packet Radio Service (GPRS); Stage 1	S1
SP-000060	22.060	010		3.2.0	R99	Support of encryption in GPRS mobile stations	approved	F	3.3.0	General Packet Radio Service (GPRS); Stage 1	S1
SP-000071	22.060	011		3.2.0	R00	The support of Push Services for GPRS	approved	B	4.0.0	General Packet Radio Service (GPRS); Stage 1	S1
SP-000061	22.066	002		3.0.1	R99	PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability	approved	B	3.2.0	Support of Mobile Number Portability (MNP); Stage 1	S1
SP-000062	22.078	032	1	3.2.0	R99	Call gapping / congestion control in HPLMN only	approved	F	3.3.0	CAMEL; Stage 1	S1
SP-000062	22.078	033		3.2.0	R99	In-band user interaction for dialled services in CAMEL ph3	approved	F	3.3.0	CAMEL; Stage 1	S1
SP-000062	22.078	034		3.2.0	R99	Correction of GPRS session description	approved	F	3.3.0	CAMEL; Stage 1	S1
SP-000062	22.078	035		3.2.0	R99	Reduced scope of CAMEL Phase 3 in release 99	approved	F	3.3.0	CAMEL; Stage 1	S1

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SP-000123	22.078	036		3.2.0	R99	Correction of announcement capabilties	approved	F	3.3.0	CAMEL; Stage 1	S1
SP-000063	22.090	002		3.0.1	R99	UCS2 character set for MMI mode	approved	C	3.1.0	Unstructured Supplementary Service Data (USSD); Stage 1	S1
SP-000064	22.100	029		3.5.0	R99	SoLSA not applicable for UMTS release 99	approved	F	3.6.0	UMTS Phase 1	S1
SP-000060	22.101	030		3.8.0	R99	Support of encryption in GPRS mobile stations	approved	A	3.9.0	UMTS Service principles	S1
SP-000070	22.101	031		3.8.0	R99	Fixed Dialing Number (FDN)	approved	F	3.9.0	UMTS Service principles	S1
	22.101	032		3.8.0	R99	Types of emergency calls	Withdrawn	B		UMTS Service principles	S1
SP-000065	22.105	022		3.7.0	R99	Correction related to FAX support	approved	F	3.8.0	Services & Service capabilities	S1
SP-000065	22.105	023		3.7.0	R99	Clarification of SoLSA support	approved	C	3.8.0	Services & Service capabilities	S1
SP-000066	22.115	004		3.1.0	R99	Clarifications to 22.115	approved	D	3.2.0	Service Aspects Charging and billing	S1
SP-000067	22.121	005		3.1.0	R99	Clarification of service capabilities	approved	F	3.2.0	Provision of Services in UMTS - The Virtual Home Environment	S1
SP-000067	22.121	006		3.1.0	R99	Information Transfer service capability feature	approved	C	3.2.0	Provision of Services in UMTS - The Virtual Home Environment	S1
SP-000068	22.135	004		3.1.0	R99	Clarification of requirement for Multicall	approved	F	3.2.0	Multicall Stage1	S1
SP-000084	23.002	004		3.2.0	R99	General improvements of the split between section 3 (Definitions and abbreviations) and section 4 (The entities of the mobile system).	approved	F	3.3.0	Network Architecture	S2
SP-000084	23.002	005	1	3.2.0	R99	Re-ordering of section 4 (The entities of the mobile system).	approved	D	3.3.0	Network Architecture	S2
SP-000084	23.002	006		3.2.0	R99	Re-ordering of section 5 (Configuration of a Public Land Mobile Network).	approved	D	3.3.0	Network Architecture	S2
SP-000084	23.002	007		3.2.0	R99	Re-ordering of section 6 ("PLMN interfaces").	approved	D	3.3.0	Network Architecture	S2
SP-000084	23.002	008		3.2.0	R99	Simplification of the figure 1 (configuration of a PLMN and interfaces)	approved	D	3.3.0	Network Architecture	S2
SP-000084	23.002	009	1	3.2.0	R99	Introduction of CAMEL aspects.	approved	B	3.3.0	Network Architecture	S2
SP-000084	23.002	011	1	3.2.0	R99	Introduction of CBS aspects	approved	B	3.3.0	Network Architecture	S2
SP-000084	23.002	012	2	3.2.0	R99	Add LCS enhancements	approved	C	3.3.0	Network Architecture	S2
SP-000084	23.002	013	4	3.2.0	R99	Define GSM LCS parts and add UMTS LCS "hooks" in the network architecture.	approved	C	3.3.0	Network Architecture	S2
SP-000084	23.002	014	1	3.2.0	R99	Incorporation of network architecture material coming from section 4 of 29.002	approved	F	3.3.0	Network Architecture	S2
NP-000079	23.003	014		3.3.0	R99	Necessity of the function of the calculation an SGSN IP address from the target ID	approved	B	3.4.0	Numbering, Addressing and Identification	N2
NP-000076	23.003	015	3	3.3.0	R99	Introduction of Encrypted MSI	rejected	B		Numbering, Addressing and Identification	N2
NP-000079	23.003	016		3.3.0	R99	Definition of Service Area Identification	approved	B	3.4.0	Numbering, Addressing and Identification	N2
NP-000076	23.003	017	1	3.3.0	R99	Modification of section 6.2 to enhance IMEI security	revised	C		Numbering, Addressing and Identification	N2
NP-000174	23.003	017	2	3.3.0	R99	Modification of section 6.2 to enhance IMEI security	approved	C	3.4.0	Numbering, Addressing and Identification	N2
NP-000068	23.003	018		3.3.0	R99	Coding of a deleted P-TMSI signature	approved	F	3.4.0	Numbering, Addressing and Identification	N2
NP-000071	23.007	004		3.2.0	R99	Support of VLR and HLR Data Restoration procedures with LCS	approved	F	3.3.0	Restoration procedures	N2
NP-000065	23.008	012	2	3.2.0	R99	Introduction of 'Notification to CSE flag'to ODB	approved	C	3.3.0	Organisation of subscriber data	N2
NP-000078	23.008	013		3.2.0	R99	Correction of LSA Information	approved	A	3.3.0	Organisation of subscriber data	N2
NP-000077	23.008	014	2	3.2.0	R99	The addition of priority information to subscriber data	approved	B	3.3.0	Organisation of subscriber data	N2
NP-000073	23.008	015	1	3.2.0	R99	Introduction of Multicall	approved	B	3.3.0	Organisation of subscriber data	N2

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NP-000077	23.008	016	1	3.2.0	R99	Parallel handling of multiple PDP contexts	approved	B	3.3.0	Organisation of subscriber data	N2
NP-000079	23.008	019	1	3.2.0	R99	Introduction of Service Area Identification	approved	B	3.3.0	Organisation of subscriber data	N2
NP-000065	23.008	020	1	3.2.0	R99	Addition of gsmSCF address list to CSI	approved	C	3.3.0	Organisation of subscriber data	N2
NP-000076	23.008	022	1	3.2.0	R99	Introduction of Enhanced User Identity Confidentiality	rejected	B		Organisation of subscriber data	N2
NP-000065	23.008	023	1	3.2.0	R99	Combined CR on 23.008	approved	F	3.3.0	Organisation of subscriber data	N2
NP-000065	23.008	024		3.2.0	R99	Adding D-CSI to table with Negotiated CAMEL Capability Handling variables	approved	B	3.3.0	Organisation of subscriber data	N2
NP-000067	23.008	025		3.2.0	R99	Addition of PDP Context Identifier	approved	A	3.3.0	Organisation of subscriber data	N2
NP-000095	23.009	002	3	3.1.0	R99	CR to 23.009 on Handover scenario for Multicall	Rejected	B		Handover procedures	N1
NP-000092	23.009	003		3.1.0	R99	Functional requirements for the use of RANAP over the E i/f	approved	B	3.2.0	Handover procedures	N1
NP-000093	23.009	004		3.1.0	R99	Procedures for 3G_MSC-B_HO	approved	C	3.2.0	Handover procedures	N1
NP-000093	23.009	005		3.1.0	R99	Procedures for 3G_MSC-A_HO	approved	C	3.2.0	Handover procedures	N1
NP-000092	23.009	006		3.1.0	R99	Introduction of RANAP for intra-UMTS inter-MSC relocation	approved	C	3.2.0	Handover procedures	N1
NP-000092	23.009	007		3.1.0	R99	Clarifications of 3G_MSC-A and 3G_MSC-B roles	approved	A	3.2.0	Handover procedures	N1
NP-000098	23.009	008	2	3.1.0	R99	Transcoder handling in the CN at inter-system handover and relocation	approved	B	3.2.0	Handover procedures	N1
NP-000076	23.012	003	3	3.1.0	R99	Introduction of Enhanced User Identity Confidentiality	rejected	B		Location management procedures	N2
NP-000076	23.012	004		3.1.0	R99	Addition of Current Security Context to Send_Identification_PVLR	approved	B	3.2.0	Location management procedures	N2
NP-000076	23.012	005		3.1.0	R99	Introduction of Authentication Failure Report	approved	B	3.2.0	Location management procedures	N2
NP-000078	23.016	010		3.3.0	R99	Correction of LSA Information	approved	A	3.4.0	Subscriber data management - Stage 2	N2
NP-000077	23.016	011	1	3.3.0	R99	The addition of priority information	approved	B	3.4.0	Subscriber data management - Stage 2	N2
NP-000073	23.016	012	2	3.3.0	R99	Introduction of subscriber data for Multicall	approved	B	3.4.0	Subscriber data management - Stage 2	N2
NP-000073	23.018	025	7	3.3.0	R99	Addition of the description for Multicall	approved	B	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	026	2	3.3.0	R99	Alternative solution for ALR	approved	B	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	028	1	3.3.0	R99	User interaction and monitoring	rejected	C		Basic Call Handling - Technical realisation	N2
NP-000075	23.018	030		3.3.0	R99	Correction of the SDL diagram for Pre-paging	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	032	1	3.3.0	R99	Inclusion of D-CSI/N-CSI check in HLR/VLR	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	033		3.3.0	R99	Initialisation of Backward Call indicator	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	034		3.3.0	R99	Correction of the result of the procedure CAMEL_ICH_MSC_INIT	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000076	23.018	036	3	3.3.0	R99	Introduction of Enhanced User Identity Confidentiality	rejected	B		Basic Call Handling - Technical realisation	N2
NP-000065	23.018	037		3.3.0	R99	Clarification of N-CSI in Core Network	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	038	1	3.3.0	R99	Definition of Continue CAMEL Handling	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000079	23.018	039	2	3.3.0	R99	Updating references to point to 3G specifications	approved	D	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000072	23.018	043	1	3.3.0	R99	Clarification of NPDB error detection and MNP specific call handling	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	044		3.3.0	R99	Setting the Destination Address for MO calls	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	047		3.3.0	R99	O-CSI and D-CSI checks for ORLCF calls	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000065	23.018	048		3.3.0	R99	Correction of CF notification	approved	F	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000076	23.018	049		3.3.0	R99	Introduction of Authentication Failure Report	approved	B	3.4.0	Basic Call Handling - Technical realisation	N2
NP-000072	23.018	050	3	3.3.0	R99	ISUP release cause value	approved	C	3.4.0	Basic Call Handling - Technical realisation	N2

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SP-000085	23.032	001		3.0.0	R99	Aligning 23.032 with changes in 03.32	approved	B	3.1.0	Universal Geographical Area Description (GAD)	S2
NP-000090	23.034	003	2	3.1.1	R99	Modifications to Stage 2 service des iption due to EDGE	approved	B	3.2.0	High Speed Circuit Switched Data (HSCSD) - Stage 2	N1
NP-000093	23.034	004	1	3.1.1	R99	Support of high speed data in UMTS/UTRAN	approved	C	3.2.0	High Speed Circuit Switched Data (HSCSD) - Stage 2	N1
TP-000024	23.040	009		3.3.0	R99	Enhancement of the Message Content in SMS	approved	B	3.4.0	Technical realisation of Short Message Service	T2
TP-000024	23.040	010		3.3.0	R99	SMS multiple information elements	approved	B	3.4.0	Technical realisation of Short Message Service	T2
TP-000024	23.040	011		3.3.0	R99	SMS E-MAIL PARAMETERS	approved	B	3.4.0	Technical realisation of Short Message Service	T2
TP-000024	23.041	003		3.1.0	R99	Addition of LCS message identifier to support GPS Navigation message	approved	A	3.2.0	Technical Realization of Cell Broadcast Service	T2
TP-000024	23.041	004		3.1.0	R99	Adaptation of the scope of TS 23.041 from “GSM only” to “GSM and UMTS” part II	approved	F	3.2.0	Technical Realization of Cell Broadcast Service	T2
TP-000024	23.057	001		3.0.0	R99	Corrections to WAP chapters	approved	F	3.1.0	Mobile Station Application Execution Environment (MExE)	T2
TP-000024	23.057	002		3.0.0	R99	QoS	approved	F	3.1.0	Mobile Station Application Execution Environment (MExE)	T2
SP-000086	23.060	052	2	3.2.1	R99	QoS Related Updates	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000135	23.060	065	5	3.2.1	R99	Radio bearer release and PDP context interaction	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	080	2	3.2.1	R99	GPRS Interworking With CAMEL	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	085		3.2.1	R99	Storage of Aggregated BSS QoS Profile in the SGSN	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	086		3.2.1	R99	Modification to selective routing area update procedure	approved	C	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	088	1	3.2.1	R99	QoS delay budget in CN and RAN.	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	089	1	3.2.1	R99	Release of RABs Without PDP Context Modification	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	090		3.2.1	R99	NSAPI as RAB identifier for packet	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	091		3.2.1	R99	Correction to GPRS/CAMEL interworking.	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	092		3.2.1	R99	IP Multicast support in GPRS.	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	094		3.2.1	R99	Removal of the description of the cell reselection algorithm from 23.60	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	096		3.2.1	R99	Removal of PDP Type X.25 support	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	097	1	3.2.1	R99	AAL5 description	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2

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SP-000086	23.060	098		3.2.1	R99	Removal of Anonymous Access support	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	099		3.2.1	R99	Removal of TCP support in the packet domain PLMN backbone network	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	100	1	3.2.1	R99	IPv6 as optional Iu and Gn protocol	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	101	1	3.2.1	R99	Common GPRS and UMTS PS attach procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000135	23.060	102	3	3.2.1	R99	Classmark handling	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	103	1	3.2.1	R99	UMTS Authentication	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	104	3	3.2.1	R99	Hard handover with switching in CN	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	105	1	3.2.1	R99	Transfer of present RA information from UTRAN to SGSN	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	106	2	3.2.1	R99	Service Request	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	107		3.2.1	R99	Correction to Address allocation procedure for PDP Type IPv 6	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	108	1	3.2.1	R99	Aligning SRNC relocation procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	109	1	3.2.1	R99	PDCP sequence numbers in SRNC relocation	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	110	1	3.2.1	R99	RAB Assignment Description	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	112	1	3.2.1	R99	Removing NSAPI from GTP-C response messages	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	114	1	3.2.1	R99	Clarification of RANAP and GTP procedures in SRNS relocation	approved	C	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	116		3.2.1	R99	Subscriber and equipment trace for PS domain	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	119		3.2.1	R99	Extension of Maximum N-PDU size in case of PDP type = PPP	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	121		3.2.1	R99	User control screening in R99	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	122		3.2.1	R99	Improving charging efficiency	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	123		3.2.1	R99	Removal of P-TMSI Signature in Service Request	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	125	1	3.2.1	R99	Clarification of unsuccessful RAB assignment	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	127	1	3.2.1	R99	Volume based charging	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	128		3.2.1	R99	PDCP sequence numbers in SRNC relocation and inter-system handover	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2

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SP-000086	23.060	129	2	3.2.1	R99	Combined Cell Update/URA Update and SRNS Relocation	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	130	2	3.2.1	R99	Serving RNC Relocation Procedure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	131	1	3.2.1	R99	Support for combined procedures also at UMTS<->GSM Inter System Change	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	133	1	3.2.1	R99	PDP Type to RNC Context	approved	B	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	134	1	3.2.1	R99	PDP Context modification on RAB Release	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	135		3.2.1	R99	Clarification on Iu interface	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	136	1	3.2.1	R99	Adaptation of 23.060 terminology with the N1 agreement	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	138		3.2.1	R99	Deletion of GGSN TEID in the update PDP context request message	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	139		3.2.1	R99	Action upon reception of GTP-u PDU in the case of SGSN/GGSN failure	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	140		3.2.1	R99	Clarification of intra-SGSN inter-system change to GPRS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	141	1	3.2.1	R99	Clarification of intra-SGSN inter-system change to UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	142		3.2.1	R99	Clarification of inter-SGSN inter-system change to GPRS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000135	23.060	143		3.2.1	R99	Clarification of inter-SGSN inter-system change to UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	144	1	3.2.1	R99	Clarification of MS information procedure in UMTS	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	145		3.2.1	R99	Change to the IP-V6 address allocation	approved	D	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	23.060	146	1	3.2.1	R99	Correction to stateless address autoconfiguration procedure for PDP Type IPv6	approved	F	3.3.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
NP-000072	23.066	007	1	3.1.0	R99	Editorial clean up	approved	D	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
NP-000072	23.066	008	4	3.1.0	R99	Alignment of IN interface with Fixed Networks	approved	B	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
NP-000072	23.066	009	3	3.1.0	R99	Detection of database synchronisation errors in SRF	approved	B	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
NP-000072	23.066	012	2	3.1.0	R99	Results of Public Enquiry 9953	approved	D	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
NP-000072	23.066	015	1	3.1.0	R99	Clarification of NPDB error detection and MNP specific call handling	approved	F	3.2.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
	23.067	001		3.0.0	R99	Cause pre-emption removed from HOLD message.		A	3.1.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	NS
	23.067	002		3.0.0	R99	Priority update by the use of Assignment procedure		C	3.1.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	NS

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NP-000065	23.079	009		3.3.0	R99	Correction of CF notification	approved	A	3.3.0	Support of Optical Routeing - Phase 1 - Stage 2	N2
NP-000079	23.079	010	1	3.3.0	R99	Updating references to point to 3G specifications	approved	D	3.3.0	Support of Optical Routeing - Phase 1 - Stage 2	N2
NP-000079	23.079	011		3.3.0	R99	Indication of OR capability of the GMSC to the destination MSC/VLR	approved	F	3.3.0	Support of Optical Routeing - Phase 1 - Stage 2	N2
NP-000025	23.082	003	3	3.1.0	R99	Introduction of 'Notification to CSE flag' to CF		C	3.2.0	Call Forwarding (CF) Supplementary Services - Stage 2	NS
NP-000024	23.082	004	2	3.1.0	R99	Addition of Long Forwarded-to Numbers		B	3.2.0	Call Forwarding (CF) Supplementary Services - Stage 2	NS
NP-000112	23.082	005		3.1.0	R99	Inclusion of TIF-CSI		A	3.2.0	Call Forwarding (CF) Supplementary Services - Stage 2	NS
NP-000025	23.088	001	3	3.1.0	R99	Introduction of 'Notification to CSE flag' to CB		C	3.2.0	Call Barring (CB) Supplementary Service - Stage 2	NS
NP-000026	23.094	001		3.0.0	R99	Follow Me stage 2 specification		F	3.1.0	Follow Me Stage 2	NS
NP-000028	23.097	004		3.1.0	R99	Minor editorial corrections		D	3.1.1	Multiple Subscriber Profile (MSP); Stage 2	NS
SP-000087	23.107	012	1	3.1.1	R99	Editorial modification of the QoS attributes units	approved	D	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	013	1	3.1.1	R99	Generation of QoS parameters for CS data services for call setup and interworking	approved	C	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	014		3.1.1	R99	Clarification of Inter-release handover	approved	F	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	016		3.1.1	R99	Extension of Maximum N-PDU size	approved	F	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	017	1	3.1.1	R99	Correction of value ranges	approved	F	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	018		3.1.1	R99	Correction of maximum bit rate values	approved	F	3.2.0	Quality of Service, Concept and Architecture	S2
SP-000087	23.107	019	1	3.1.1	R99	Clarification of the Allocation/Retention Priority Attribute	approved	F	3.2.0	Quality of Service, Concept and Architecture	S2
NP-000098	23.108	003		3.1.0	R99	Updates for call procedures for UMTS, including codec negotiation	Withdrawn	B		Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	N1
NP-000095	23.108	004		3.1.0	R99	Clarification on timing to release TCH	approved	C	3.2.0	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	N1
SP-000088	23.121	053	1	3.2.0	R99	Tunnel Endpoint Identifier	approved	F	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	054		3.2.0	R99	Inter 3G MSC SRNS relocation	approved	C	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	055		3.2.0	R99	Change of the reference point name according to 23.002	approved	F	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	056		3.2.0	R99	Deletion of SRNS relocation procedure from 23.121	approved	D	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	057	1	3.2.0	R99	Removal of "FFS" items	approved	D	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	058		3.2.0	R99	Removal of L3CE references	approved	D	3.3.0	Architecture Requirements for release 99	S2
SP-000088	23.121	059		3.2.0	R99	removal of detailed text on handover	approved	D	3.3.0	Architecture Requirements for release 99	S2
NP-000101	23.122	004	1	3.1.1		UTMS references in 23.122	approved	D	3.2.0	Non Access Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-000093	24.007	006	1	3.2.0	R99	Updating Session Management (SM) for R99	approved	C	3.3.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1
NP-000093	24.007	007		3.2.0	R99	Removal of Anonymous Access	approved	C	3.3.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1
NP-000093	24.007	008		3.2.0	R99	PMMSMS-REL-Req deletion in MS side	approved	C	3.3.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1

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NP-000100	24.007	010	1	3.2.0	R99	Addition of integrity protection feature	approved	C	3.3.0	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1
NP-000095	24.008	032	10	3.2.1	R99	Addition of the Stream Identifier Information Element	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000090	24.008	049	4	3.2.1	R99	Support of 400 and 850 MHz band	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	091	1	3.2.1	R99	Timer control for GPRS detach	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	093		3.2.1	R99	UMTS security parameters, Handling of Ciphering algorithm IE in UMTS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	094		3.2.1	R99	UMTS security parameters, Correction of format for IE "Response from SIM"	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	095	1	3.2.1	R99	UMTS security parameters, Combined reject causes for CS and PS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000097	24.008	096	1	3.2.1	R99	Clarification of NITZ time stamp coding	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000186	24.008	097	1	3.2.1	R99	Changes to support a circuit switched multimedia call.	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000096	24.008	097	3	3.2.1	R99	Changes to support a circuit switched multimedia call	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	099	1	3.2.1	R99	Authentication Reject from MS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	107	1	3.2.1	R99	Abnormal cases in Service Request procedure	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	109		3.2.1	R99	Service Request procedure in the chapter 4.1.1.	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	111		3.2.1	R99	Removal of Anonymous Access	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000099	24.008	113	1	3.2.1	R99	Abnormal cases for TFT handling, TFT IE maximum length	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000099	24.008	114	3	3.2.1	R99	Compact coding of QoS IE	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	116	1	3.2.1	R99	Paging response in 4.7.9	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	117		3.2.1	R99	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	118	3	3.2.1	R99	Integrity checking of MM and GMM messages	Revised	C		Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000157	24.008	118	4	3.2.1	R99	Integrity checking of MM and GMM messages	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	119	1	3.2.1	R99	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	120	1	3.2.1	R99	Usage of Combined Procedures during CM service rejec	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000101	24.008	123		3.2.1	R99	GSM Cleanup - Removal of V.23	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1

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NP-000100	24.008	125	1	3.2.1	R99	Alignment of the procedure "Authentication not accepted by the MS" in MM and GMM.	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	127		3.2.1	R99	Clarification to the MS handling when receiving detach type 'IMSI detach'	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000094	24.008	129	2	3.2.1	R99	Proposal of classmark 1 and 2 for UMTS version2	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000094	24.008	130	1	3.2.1	R99	Proposal for network capability for UMTS	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000101	24.008	131	1	3.2.1	R99	Extended Transaction Identifier	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000089	24.008	133	1	3.2.1	R99	Marking ASCI des iptions	approved	D	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000094	24.008	134	1	3.2.1		Clarifying the presence of the Classmark 2 IE in the LOCATION UPDATE REQUEST message	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	135	1	3.2.1	R99	BCIE changes to support high speed data in UMTS/UTRAN	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	139	1	3.2.1	R99	Collision of network initiated Detach with the attach and RAU procedure	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	140		3.2.1	R99	Conditions when to start the GMM timer T3321	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	141		3.2.1	R99	SM IEI value	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	142	1	3.2.1	R99	Initial value for T3302	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	144		3.2.1	R99	NAS System Information with T3312 included in the CS domain specific part	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	145	1	3.2.1	R99	Intersystem change GSM <-> UMTS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	146	1	3.2.1	R99	Paging response in UMTS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	147		3.2.1	R99	Corrections to Service Request procedure	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000094	24.008	152	2	3.2.1	R99	Modification of MS Classmark 1 and 2	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	155	1	3.2.1	R99	Alignment of the AUTN and Authentication Failure Parameter length	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000095	24.008	157	2	3.2.1	R99	Multicall Information in Call Control Capability IE	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	158	1	3.2.1	R99	Duplicated PDP context activation	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.008	159	1	3.2.1	R99	Presence of TFT IE in Activate Secondary PDP Context Request	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	160		3.2.1	R99	Correction of length of TI	approved	D	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000099	24.008	162	1	3.2.1	R99	Deletion/modification of primary PDP context	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1

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NP-000100	24.008	163	1	3.2.1	R99	Clarifications on the GMM Authentication procedure	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	164		3.2.1	R99	Handling of GPRS keys at intersystem change	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	165		3.2.1	R99	Handling of CS keys at intersystem change	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	168	2	3.2.1	R99	DRX parameter for UMTS	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000101	24.008	170		3.2.1	R99	Correction of static conditions of BC IE contents	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000100	24.008	171	2	3.2.1	R99	Clarifications on the MM Authentication procedure	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000089	24.008	177		3.2.1	R99	Addition of cause value #25 'Pre-emption'	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000095	24.008	178	2	3.2.1	R99	Introduction of NW CC Capability for Multicall	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000092	24.008	179		3.2.1	R99	Correction of Service request procedure after the colition with Detach procedure	approved	F	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000098	24.008	180	1	3.2.1	R99	Introduction of UMTS AMR	approved	B	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000101	24.008	181		3.2.1	R99	Removal of X.25 for packet domain services	approved	C	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000091	24.008	182	2	3.2.1	R99	Usage of cause code IE in network initiated detach	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000130	24.008	183		3.2.1	R99	Moving NOTIFICATION RESPONSE from MM to GSM RR	approved	A	3.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3	N1
NP-000093	24.011	003	1	3.1.0	R99	SMC-GP SDL modification to transfer SMS messages via GMM	approved	C	3.2.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1
NP-000101	24.011	004	1	3.2.0	R99	Reintroduction of deleted arrow diagrams	approved	F	3.3.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1
NP-000101	24.011	005	-	3.1.0	R99	Cleaning up the References	approved	D	3.2.0	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1
NP-000027	24.080	002	1	3.1.0	R99	Correction to Location Notification Type and LCS-MOLR errors		A	3.2.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	NS
	24.080	003		3.1.0	R99	Addition of the description for Multicall		B	3.2.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	NS
RP-000015	25.101	020		3.1.0	R99	Clarifications to measurement channels	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	021		3.1.0	R99	Power measurement definitions for wanted signal (in-channel signal)	approved	D	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	022		3.1.0	R99	Change of propagation conditions for Case 2	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	023		3.1.0	R99	Editorial corrections	approved	D	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	024		3.1.0	R99	Birth-Death tap delays	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	025		3.1.0	R99	Out-of-synchronisation handling of the UE	approved	C	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	026		3.1.0	R99	UE Modulation performance requirements	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	027		3.1.0	R99	Measurement channel for UE PCDE test	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	028		3.1.0	R99	CR for performance requirement of BTFD	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4

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RP-000015	25.101	029		3.1.0	R99	CPCH	approved	B	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	030		3.1.0	R99	Clarification of ACLR	approved	D	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	031		3.1.0	R99	Correction for reference measurement channel in TS 25.101	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	032		3.1.0	R99	Modifications to requirements for power control steps in uplink	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	033		3.1.0	R99	Performance requirement	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	034		3.1.0	R99	Power Control in downlink, constant BLER target	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	035		3.1.0	R99	UE Minimum TX power change	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	036		3.1.0	R99	Performance requirements for demodulation of DCH in Site Selection Diversity Transmission mode	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	037		3.1.0	R99	Reference compressed mode patterns	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	038		3.1.0	R99	384kbps measurement channel is replaced with 10ms TTI	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000015	25.101	039		3.1.0	R99	Modification to the handling of measurement equipment uncertainty	approved	F	3.2.0	UE Radio transmission and reception (FDD)	R4
RP-000016	25.102	015		3.1.0	R99	Description of Signal Levels for Receiver Characteristics	approved	D	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	016		3.1.0	R99	Editorial corrections	approved	D	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	017		3.1.0	R99	Spurious emission correction	approved	F	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	018		3.1.0	R99	Performance requirement for base station transmit diversity mode	approved	C	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	019		3.1.0	R99	Corrections for UE TDD Blocking Requirements	approved	F	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	020		3.1.0	R99	Correction to the UL power control “differential accuracy, measured input” requirement	approved	F	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	021		3.1.0	R99	Clarification of ACLR	approved	F	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	022		3.1.0	R99	Clock Accuracy	approved	C	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	023		3.1.0	R99	Peak Code Domain Error	approved	C	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	024		3.1.0	R99	Modulation Accuracy	approved	C	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000016	25.102	025		3.1.0	R99	Out-of-synchronisation handling of the UE in TS 25.102	approved	C	3.2.0	UE Radio transmission and reception (TDD)	R4
RP-000017	25.104	022		3.1.0	R99	Clarification of Receiver Dynamic Range requirement	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	023		3.1.0	R99	Change of propagation conditions for Case 2	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	024		3.1.0	R99	Removal of chapter 6.6.2.3 in 25.104	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	025		3.1.0	R99	Editorial changes to 25.104	approved	D	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	026		3.1.0	R99	Corrections of spurious emissions aligning to GSM for UTRA: FDD BS	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	027	1	3.1.0	R99	Regional requirements in TS 25.104	approved	D	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	028		3.1.0	R99	Specifications applicable in case of use of RF devices external to the BS	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	029		3.1.0	R99	Clarification for maximum output power and rated output power	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4

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RP-000017	25.104	030		3.1.0	R99	UL Performance requirement in multipath case 3	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	031		3.1.0	R99	ACLR	approved	D	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	032		3.1.0	R99	Spectrum emission mask	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	033		3.1.0	R99	Rx spurious emissions measurement bandwidth	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	034		3.1.0	R99	Clarification for Peak code domain error	approved	D	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	035		3.1.0	R99	Corrections for BS FDD Modulation Accuracy	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	036		3.1.0	R99	Modification to the handling of measurement equipment uncertainty	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	037		3.1.0	R99	Update to downlink test models	approved	D	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000017	25.104	038		3.1.0	R99	Birth-Death tap delays	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000144	25.104	039		3.1.0	R99	Data clock accuracy	approved	F	3.2.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-000018	25.105	019	1	3.1.0	R99	BS TDD Spurious Emission Requirements for Co-Existence UTRA-FDD/ UTRA-TDD	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	020		3.1.0	R99	Revised Spurious Emission Requirements	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	021		3.1.0	R99	Corrections of spurious emissions aligning to GSM for UTRA: TDD BS	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	022		3.1.0	R99	Editorial corrections	approved	D	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	023		3.1.0	R99	Spurious emission correction	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	024		3.1.0	R99	Protection outside a licensee's frequency block	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	025		3.1.0	R99	Definition of Rated Output Power and Pmax	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	026		3.1.0	R99	Primary CCPCH Power	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	027		3.1.0	R99	BS Transmit OFF power	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	028		3.1.0	R99	Corrected reference sensitivity value for the TDD BS	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	029		3.1.0	R99	ACLR	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	030		3.1.0	R99	Spectrum emission mask	approved	F	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-000018	25.105	031		3.1.0	R99	Clock Accuracy	approved	C	3.2.0	UTRA (BS) TDD: Radio transmission and reception	R4

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RP-000019	25.113	001		3.0.0	R99	Corrections to TS 25.113	approved	F	3.1.0	Base station EMC	R4
RP-000019	25.113	002		3.0.0	R99	Definitions for TS 25.113	approved	F	3.1.0	Base station EMC	R4
RP-000019	25.113	003		3.0.0	R99	Corrections and additions to TS 25.113	approved	F	3.1.0	Base station EMC	R4
RP-000020	25.123	001		3.0.0	R99	Update of test requirements for TDD/TDD Handover	approved	F	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	002		3.0.0	R99	Update of the requirements for TDD/FDD Handover	approved	C	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	003		3.0.0	R99	Update of Cell Selection and Re-selection sections	approved	C	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	004		3.0.0	R99	Update of Power management and Radio Link Surveillance sections	approved	F	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	005		3.0.0	R99	Update of measurements performance requirements	approved	F	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	006		3.0.0	R99	Inclusion of transport channel BER	approved	F	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000020	25.123	007		3.0.0	R99	Receiver Timing Advance	approved	F	3.1.0	Requirements for support of radio resource management (TDD)	R4
RP-000021	25.133	001		3.0.0	R99	Modification of RL Failure Requirement	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	002		3.0.0	R99	Idle Mode Tasks	approved	C	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	003		3.0.0	R99	Revised UE handover requirements	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	004		3.0.0	R99	Editorial corrections	approved	D	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	005		3.0.0	R99	UE measurement requirement update	revised	F		Requirements for support of radio resource management (FDD)	R4
RP-000149	25.133	005	1	3.0.0	R99	UE measurement requirement update	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	006		3.0.0	R99	TDD Measurements Performance Requirements for TS25.133 (FDD)	approved	B	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	007		3.0.0	R99	UTRAN measurement requirement update	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	008		3.0.0	R99	Requirements on parallell measurements	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000021	25.133	009		3.0.0	R99	Inclusion on transport channel BER.	approved	F	3.1.0	Requirements for support of radio resource management (FDD)	R4
RP-000022	25.141	001		3.0.0	R99	Clarification of Receiver Dynamic Range requirement	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	002		3.0.0	R99	Editorial changes	approved	D	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	003		3.0.0	R99	Occupied bandwidth measurement	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	004		3.0.0	R99	Clarification of "random" in relation to injected bit errors	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	005		3.0.0	R99	Test Models for transmitter	approved	B	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	006	1	3.0.0	R99	Regional requirements in TS 25.104	approved	D	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	007		3.0.0	R99	Blocking test	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	008		3.0.0	R99	ACLR measurement	approved	F	3.1.0	Base station conformance testing (FDD)	R4

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RP-000022	25.141	009		3.0.0	R99	Peak code domain error measurement	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	010		3.0.0	R99	Clarification on the test point and the set of specifications to be considered in case of use of RF devices external to the BS.	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	011		3.0.0	R99	CR for Performance requirement in TS 25.141	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	012		3.0.0	R99	Spectrum emission mask	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	013		3.0.0	R99	BS configurations	approved	B	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	014		3.0.0	R99	Test models	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	015		3.0.0	R99	Update to Downlink Test Models	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	016		3.0.0	R99	Remove revision marks in annex A	approved	D	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	017		3.0.0	R99	Format and interpretation of tests	approved	D	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	018		3.0.0	R99	Modifications for system set-up's TS25.141v3.0.0	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	019		3.0.0	R99	Intermodulation test	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	020		3.0.0	R99	Modifications for test models	approved	C	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	021		3.0.0	R99	Receiver diversity	approved	C	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	023		3.0.0	R99	Spectrum emission mask	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	024		3.0.0	R99	Rx spurious emissions measurement bandwidth	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	025		3.0.0	R99	Modification to the handling of measurement equipment uncertainty	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000022	25.141	026		3.0.0	R99	Test models	approved	F	3.1.0	Base station conformance testing (FDD)	R4
RP-000023	25.142	001		3.0.0	R99	Conformance test descriptions for spectrum emission mask and ACLR	approved	C	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	002		3.0.0	R99	Conformance test description for Adjacent Channel Selectivity (ACS)	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	003		3.0.0	R99	Conformance test description for blocking characteristics	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	004	1	3.0.0	R99	Conformance test description for performance requirements	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	005		3.0.0	R99	Protection outside a licensee's frequency block	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	006		3.0.0	R99	ACLR	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	007		3.0.0	R99	Corrected reference sensitivity value	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	008		3.0.0	R99	Conformance test description for Tx spurious emissions	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	009		3.0.0	R99	Clause 5: General test conditions and declarations	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	010		3.0.0	R99	Conformance test description for Primary CCPCH power	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	011		3.0.0	R99	Conformance test description for transmit OFF power	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000023	25.142	012		3.0.0	R99	Conformance test description for Rx spurious emissions	approved	F	3.1.0	Base station conformance testing (TDD)	R4
RP-000059	25.201	001		3.0.1	R99	Editorial revision	approved	D	3.0.2	Physical layer -General Description	R1
RP-000060	25.211	013	6	3.1.1	R99	Addition of a downlink channel indicating CPCH status	approved	B	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	023	6	3.1.1	R99	CPCH-related editorial changes, technical changes and additions to 25.211 and some clarifications to 7.4 PCPCH/AICH timing relation.	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	024	1	3.1.1	R99	Additional description of TX diversity for PDSCH	approved	B	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	025	1	3.1.1	R99	Consistent numbering of scrambling code groups	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1

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RP-000060	25.211	026		3.1.1	R99	Minor corrections to timing section	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	028	1	3.1.1	R99	Timing of PDSCH	approved	C	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	029	1	3.1.1	R99	Modifications to STTD text	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	031	4	3.1.1	R99	CD/CA-ICH for dual mode CPCH	approved	B	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	033		3.1.1	R99	Clarification of frame synchronization word and its usage	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	034	1	3.1.1	R99	Editorial updates to 25.211	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	036		3.1.1	R99	PDSCH multi-code transmission	approved	C	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	037		3.1.1	R99	Clarification of pilot bit patterns for CPCH and slot formats for CPCH PC-P and message part	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	039		3.1.1	R99	Further restrictions on the application of the Tx diversity modes in DL	approved	C	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	040		3.1.1	R99	Clarification of downlink pilot bit patterns	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	041		3.1.1	R99	Clarification of DCH initialisation	approved	C	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	044	2	3.1.1	R99	Emergency Stop of CPCH transmission and Start of Message Indicator	approved	B	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000060	25.211	046		3.1.1	R99	Clean up of USTS related specifications	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-000061	25.212	025	2	3.1.1	R99	CR for parity bit attachment to 0 bit transport block	approved	B	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	029	1	3.1.1	R99	Limitations of blind transport format detection	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	034	1	3.1.1	R99	Clarification of fixed position rate matching	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	035	1	3.1.1	R99	Clarification of DL compressed mode	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	036		3.1.1	R99	Reconfiguration of TFCS	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	037	1	3.1.1	R99	Removal of fixed gap position in 25.212	approved	C	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	038	2	3.1.1	R99	Definition clarification for TS 25.212	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	039	1	3.1.1	R99	Clarification on TFCI coding input	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	041	2	3.1.1	R99	Correction of UL compressed mode by higher layer scheduling	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	042	5	3.1.1	R99	Downlink Compressed Mode by puncturing	approved	C	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	044		3.1.1	R99	Modification of Turbo code internal interleaver	approved	B	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	045		3.1.1	R99	Editorial corrections	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	046		3.1.1	R99	SF/2 method: DTX insertion after 2nd interleaver	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	047	1	3.1.1	R99	TFCI coding for FDD	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	048		3.1.1	R99	Mapping of TFCI in downlink compressed mode	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	049		3.1.1	R99	Editorial changes to Annex A	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	050		3.1.1	R99	Removal of rate matching attribute setting for RACH	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	052		3.1.1	R99	Padding Function for Turbo coding of small blocks	approved	B	3.2.0	Multiplexing and channel coding (FDD)	R1

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RP-000061	25.212	055	2	3.1.1	R99	Clarifications relating to DSCH	approved	F	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000061	25.212	056		3.1.1	R99	Editorial modification of uplink shifting parameter calculation for turbo code puncturing	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000062	25.212	059	1	3.1.1	R99	Revision: Editorial correction to the calculation of Rate Matching parameters	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000062	25.212	060	1	3.1.1	R99	Editorial changes of channel coding section	approved	D	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000062	25.212	061		3.1.1	R99	Removal of DL compressed mode by higher layer scheduling with fixed positions	approved	C	3.2.0	Multiplexing and channel coding (FDD)	R1
RP-000063	25.213	020	1	3.1.1	R99	Consistent numbering of scrambling code groups	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	021		3.1.1	R99	Downlink signal flow corrections	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	022		3.1.1	R99	Uplink signal flow corrections	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	023	1	3.1.1	R99	Number of RACH scrambling codes	approved	C	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	024	1	3.1.1	R99	Editorial changes to 25.213	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	025	3	3.1.1	R99	Number of PCPCH scrambling codes per cell	approved	C	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	027		3.1.1	R99	A typo correction for 5.2.2 and clarification for 5.2.3.1 of TS 25.213V3.1.1	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	028	2	3.1.1	R99	Channelization code allocation method for PCPCH message part	approved	C	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	029		3.1.1	R99	Clarifications to DSCH scrambling and modulation in 25.213	approved	C	3.2.0	Spreading and modulation (FDD)	R1
RP-000063	25.213	032		3.1.1	R99	Clean up of USTS related specifications	approved	F	3.2.0	Spreading and modulation (FDD)	R1
RP-000064	25.214	043	1	3.1.1	R99	Optimum ID Codes for SSDT Power Control	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	044		3.1.1	R99	Editorial clarification to section 5.1.2.2.2	approved	D	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	047	1	3.1.1	R99	Additional description of TX diversity for PDSCH	approved	B	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	048		3.1.1	R99	Power offset on S-CCPCH	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	050	2	3.1.1	R99	Corrections to uplink power control	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	055		3.1.1	R99	Correction of Adjustment loop description	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	056	1	3.1.1	R99	Clarification of TPC command combining for Algorithm 1	approved	C	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	057		3.1.1	R99	Clarification of TPC command combining for Algorithm 2	approved	C	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	059	2	3.1.1	R99	CPCH: CD subslot-related additions to 6.2	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	061	1	3.1.1	R99	CPCH: editorial changes and clarifications of 6.2	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	062		3.1.1	R99	Editorial corrections	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	064	1	3.1.1	R99	Editorial improvement of the IPDL section	approved	D	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	065	1	3.1.1	R99	PRACH power offset definition	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	066	1	3.1.1	R99	Radio link synchronisation in UTRA/FDD	approved	C	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	068		3.1.1	R99	Definition for maximum and minimum DL power	approved	B	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	069	4	3.1.1	R99	Channel assignment and UE channel selection methods of CPCH	approved	B	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	071		3.1.1	R99	Channelization code allocation method for PCPCH message part	approved	C	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	072	1	3.1.1	R99	Limited power raise used -parameter in DL PC	approved	B	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	080		3.1.1	R99	Downlink power control	approved	D	3.2.0	FDD; physical layer procedures	R1
RP-000064	25.214	081		3.1.1	R99	Editorial improvement on SSDT power control section	approved	D	3.2.0	FDD; physical layer procedures	R1
RP-000065	25.214	082	2	3.1.1	R99	Emergency Stop of CPCH transmission and Start of Message Indicator	approved	B	3.2.0	FDD; physical layer procedures	R1

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RP-000065	25.214	083		3.1.1	R99	Clean up of USTS related specifications	approved	F	3.2.0	FDD; physical layer procedures	R1
RP-000066	25.215	024	1	3.1.1	R99	Definition of Transmitted carrier power	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	025		3.1.1	R99	Clarification of Observed time difference to GSM cell	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	027		3.1.1	R99	Naming of BER/BLER mapping	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	028		3.1.1	R99	Minor corrections in TS 25.215	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	029		3.1.1	R99	Re-definition of timing measurements	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	030	2	3.1.1	R99	Mapping of timing measurements	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	031		3.1.1	R99	Removal of note in Round trip time measurement	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	033		3.1.1	R99	Removal of fixed gap position in 25.215	approved	C	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	036	4	3.1.1	R99	Corrections to 25.215 compressed mode parameter list	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	037	3	3.1.1	R99	Definition and range of physical channel BER	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	040		3.1.1	R99	Clarification of CPICH measurements in Tx diversity	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	042	1	3.1.1	R99	UTRAN RSSI measurement	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	043	1	3.1.1	R99	UTRAN Propagation delay	approved	B	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	044	2	3.1.1	R99	Correction to sections: 5.1.15 UE GPS Timing of Cell Frames for LCS; 5.2.8 UTRAN GPS Timing of Cell Frames for LCS, including timing mapping	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	047		3.1.1	R99	Removal of RSCP measurement	approved	F	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000066	25.215	048		3.1.1	R99	UE BER measurement removal and clarification for use of uplink compressed mode	approved	C	3.2.0	Physical layer; Measurements (FDD)	R1
RP-000067	25.221	003	2	3.1.1	R99	Cycling of cell parameters	approved	C	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	011		3.1.1	R99	Correction of Midamble Definition for TDD	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	012		3.1.1	R99	Introduction of the timeslot formats for RACH to the TDD specifications	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	013		3.1.1	R99	Paging Indicator Channel reference power	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	014	1	3.1.1	R99	Removal of Synchronisation Case 3 in TDD	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	015	1	3.1.1	R99	Signal Point Constellation	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	016		3.1.1	R99	Association between Midambles and Channelisation Codes	approved	F	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000067	25.221	017		3.1.1	R99	Removal of ODMA from the TDD specifications	approved	D	3.2.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-000068	25.222	017		3.1.1	R99	Corrections to TS 25.222	approved	F	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	018		3.1.1	R99	Refinements of Physical Channel Mapping	approved	F	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	019	1	3.1.1	R99	TFCI coding specification in TDD	approved	F	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	021		3.1.1	R99	Modification of Turbo code internal interleaver	approved	B	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	023		3.1.1	R99	Update of TS 25.222 - clarification of BTFD for TDD	approved	F	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	025		3.1.1	R99	Change of TFCI basis for TDD	approved	F	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	026		3.1.1	R99	Padding Function for Turbo coding of small blocks	approved	B	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000068	25.222	027		3.1.1	R99	Editorial modification of shifting parameter calculation for turbo code puncturing	approved	D	3.2.0	Multiplexing and channel coding (TDD)	R1

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RP-000068	25.222	029	1	3.1.1	R99	Editorial changes of channel coding section	approved	D	3.2.0	Multiplexing and channel coding (TDD)	R1
RP-000069	25.223	002	3	3.1.1	R99	Cycling of cell parameters	approved	C	3.2.0	Spreading and modulation (TDD)	R1
RP-000069	25.223	005		3.1.1	R99	Removal of Synchronisation Case 3 in TDD	approved	F	3.2.0	Spreading and modulation (TDD)	R1
RP-000069	25.223	006	1	3.1.1	R99	Signal Point Constellation	approved	F	3.2.0	Spreading and modulation (TDD)	R1
RP-000070	25.224	003	2	3.1.1	R99	Cycling of cell parameters	approved	C	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	007	2	3.1.1	R99	Clarifications on the UL synchronisation and Timing advance	approved	D	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	008		3.1.1	R99	Modification of SIR threshold on setting TPC	approved	D	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	009	1	3.1.1	R99	New section describing the random access procedure	approved	F	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	011		3.1.1	R99	Removal of Synchronisation Case 3 in TDD	approved	F	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	012	1	3.1.1	R99	Clarifications on power control procedures	approved	D	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	013		3.1.1	R99	Signal Point Constellation	approved	D	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	014	2	3.1.1	R99	Out-of-sync handling for UTRA TDD	approved	B	3.2.0	TDD; physical layer procedures	R1
RP-000070	25.224	015		3.1.1	R99	Removal of ODMA from the TDD specifications	approved	D	3.2.0	TDD; physical layer procedures	R1
RP-000071	25.225	004	1	3.1.1	R99	Correction of CPICH measurements and 'RX Timing Deviation' range	approved	F	3.2.0	Physical layer; Measurements (TDD)	R1
RP-000071	25.225	005	2	3.1.1	R99	Editorial modifications to 25.225 Measurements for TDD	approved	D	3.2.0	Physical layer; Measurements (TDD)	R1
RP-000071	25.225	006	1	3.1.1	R99	Corrections to 25.225 Measurements for TDD	approved	F	3.2.0	Physical layer; Measurements (TDD)	R1
RP-000034	25.301	032		3.3.0	R99	Correction of the CFN length	approved	F	3.4.0	Radio Interface Protocol Architecture	R2
RP-000034	25.301	034		3.3.0	R99	Removal of SCH	approved	F	3.4.0	Radio Interface Protocol Architecture	R2
RP-000035	25.302	032	2	3.3.0	R99	Revision of CPCH model	approved	C	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	033	1	3.3.0	R99	Error Correction Coding for FACH	approved	B	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	034	3	3.3.0	R99	Revision of compressed mode description	approved	C	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	036		3.3.0	R99	TrBLK size	approved	D	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	037		3.3.0	R99	PDSCH multi-code	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	038	1	3.3.0	R99	Primitives for CPCH Abnormal Situation Handling	approved	B	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	039		3.3.0	R99	Physical channel BER	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	041		3.3.0	R99	Editorial modification on AMR trblk size	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	042	1	3.3.0	R99	Corrections and clarifications on L1 and L2 functionality descriptions	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	043	1	3.3.0	R99	Transport Block Transmission	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	044		3.3.0	R99	Clarification to layer 1 model regarding transport blocks received by UE with CRC failure	approved	D	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	045		3.3.0	R99	Removal of SCH and SCCH	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	046		3.3.0	R99	Replacement of Time of Arrival Measurement by RTT	approved	D	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	047	1	3.3.0	R99	Incorporation of Measurement filtering model	approved	F	3.4.0	Services provided by the physical layer	R2
RP-000035	25.302	048		3.3.0	R99	Separation of physical channel BER measurements	approved	C	3.4.0	Services provided by the physical layer	R2
RP-000036	25.303	022	4	3.2.0	R99	CPCH start of message indication	approved	B	3.3.0	UE functions and inter-layer procedures in connected mode	R2
RP-000036	25.303	023		3.2.0	R99	Correction to Transport Format Combination Control procedure	approved	F	3.3.0	UE functions and inter-layer procedures in connected mode	R2
RP-000036	25.303	025	1	3.2.0	R99	CPCH Emergency Stop sequence	approved	B	3.3.0	UE functions and inter-layer procedures in connected mode	R2
RP-000036	25.303	026	1	3.2.0	R99	Variable Rate Packet Transmission for uplink DCH	approved	D	3.3.0	UE functions and inter-layer procedures in connected mode	R2

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RP-000036	25.303	027		3.2.0	R99	Random access transmission sequence	approved	C	3.3.0	UE functions and inter-layer procedures in connected mode	R2
RP-000037	25.304	007	2	3.1.0	R99	Cell Selection for DS-41 mode	approved	B	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-000037	25.304	014		3.1.0	R99	Modified description of cell search procedure	approved	D	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-000037	25.304	018	1	3.1.0	R99	UE individual DRX cycles in CELL_PCH and URA_PCH states	approved	F	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-000037	25.304	019	1	3.1.0	R99	Cell re-selection criteria including HCS	approved	B	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-000037	25.304	021		3.1.0	R99	Modified description of DRX	approved	F	3.2.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-000038	25.305	001	3	3.0.0	R99	Network assisted GPS LCS	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	002	1	3.0.0	R99	Enhancements for cell coverage based positioning	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	003		3.0.0	R99	Replacement for Figure 4.1	approved	D	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	004	1	3.0.0	R99	Restructuring	approved	D	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	006		3.0.0	R99	Target UE-RNC signalling model	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	007		3.0.0	R99	LMU description	approved	D	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	008	2	3.0.0	R99	LMU signalling description	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	009		3.0.0	R99	Incorporation of R1 Liaisons R2-000022 and R2-000023	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	010	3	3.0.0	R99	OTDOA - GPS Location Procedures	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000038	25.305	011	1	3.0.0	R99	Clarification of the different LMU types	approved	C	3.1.0	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2
RP-000039	25.321	032		3.2.0	R99	Bit Aligned TDD MAC Headers	approved	C	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	035	2	3.2.0	R99	CPCH including Channel Assignment	approved	C	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	036		3.2.0	R99	UE-ID type indication	approved	C	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	037	1	3.2.0	R99	RACH transmission control procedure	approved	C	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	039		3.2.0	R99	CPCH start of message indication	approved	B	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	040		3.2.0	R99	Removal of SCH and SCCH	approved	F	3.3.0	Medium Access Control (MAC) Protocol Specification	R2
RP-000039	25.321	041	1	3.2.0	R99	Clarification of bit order	approved	F	3.3.0	Medium Access Control (MAC) Protocol Specification	R2

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RP-000040	25.322	018	1	3.1.2	R99	RLC editorial changes	approved	D	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	021	1	3.1.2	R99	Corrections to RLC	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	025	2	3.1.2	R99	Corrections to RLC	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	026	1	3.1.2	R99	STATUS PDUs	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	027	1	3.1.2	R99	Clarification of RLC AMD Model	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	028		3.1.2	R99	Corrections to Timer_discard procedures	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	029	1	3.1.2	R99	Segmentation of RLC SDUs	approved	D	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	030	2	3.1.2	R99	Modification of SDU discard to support virtual PDCP sequence numbers	approved	C	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	031		3.1.2	R99	Removal of SCCH	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	032		3.1.2	R99	Updated RLC SDL	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	033	1	3.1.2	R99	RLC Editorial Changes	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000040	25.322	034		3.1.2	R99	Order of bit transmission for RLC PDUs	approved	F	3.2.0	Radio Link Control (RLC) Protocol Specification	R2
RP-000041	25.323	004		3.0.0	R99	Bit order of PDCP PDUs	approved	F	3.1.0	Packet Data Convergence Protocol (PDCP) protocol	R2
RP-000041	25.323	005		3.0.0	R99	Changes to PDCP	approved	F	3.1.0	Packet Data Convergence Protocol (PDCP) protocol	R2
RP-000042	25.324	001		3.0.0	R99	Miscellaneous corrections	approved	F	3.1.0	Radio Interface for Broadcast/Multicast Services	R2
RP-000042	25.324	002	2	3.0.0	R99	Correction of messages and bit ordering	approved	F	3.1.0	Radio Interface for Broadcast/Multicast Services	R2
RP-000043	25.331	122		3.1.0	R99	TDD Mode BCH Reception in Cell DCH State	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	123		3.1.0	R99	Uplink Outer Loop Power Control in TDD Mode	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	124	1	3.1.0	R99	TFS TB Size Calculation with Bit Aligned TDD MAC Headers	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	125		3.1.0	R99	Grouping of DRAC IEs, and detailed definitions of these Ies	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	126		3.1.0	R99	Correction of specifications for the 'Dynamic Resource Allocation Control of Uplink DCH' Procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	131	2	3.1.0	R99	Clarification of PDCP info and PDCP capability Ies	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	132		3.1.0	R99	Editorial change to "Specification of system information block characteristics"	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-000043	25.331	133		3.1.0	R99	Additions of CBS related Information Elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	134		3.1.0	R99	Signalling for computed gain factors	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	137	1	3.1.0	R99	General error handling procedures	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	138	1	3.1.0	R99	RRC message extensions	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	139		3.1.0	R99	Padding of RRC messages using RLC transparent mode	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	140	2	3.1.0	R99	UE information elements	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	141		3.1.0	R99	Other information elements	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	142	3	3.1.0	R99	Integrity protection function	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	143	4	3.1.0	R99	RAB-RB relations	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	144	1	3.1.0	R99	Inter-system handover from UTRAN	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	145	3	3.1.0	R99	Handover to UTRAN including procedure for pre-configuration	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	146	2	3.1.0	R99	RRC measurement filtering parameters	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000043	25.331	147		3.1.0	R99	New event "RL out of UE Rx window"	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	148	1	3.1.0	R99	Access control on RACH	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	149	2	3.1.0	R99	cdma2000 Hard Handover	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	150	1	3.1.0	R99	CPCH parameters with corrections	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	152		3.1.0	R99	U-plane AM RLC reconfiguration by cell update procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	154	3	3.1.0	R99	CPCH	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	155	1	3.1.0	R99	Information elements for ASC in TDD	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	156		3.1.0	R99	Addition of timing advance value in handover related messages	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	157	2	3.1.0	R99	Physical channel description for TDD	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	159		3.1.0	R99	Message contents for the intersystem command message to UTRAN operating in TDD mode	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	160		3.1.0	R99	Corrections on use of PUSCH power control info and minor corrections	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-000044	25.331	162	2	3.1.0	R99	UE individual DRX cycles in CELL_PCH and URA_PCH states	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	163		3.1.0	R99	Correction to Transport Format Combination Control procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	164	3	3.1.0	R99	Downlink outer loop power control	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	165	2	3.1.0	R99	Redirection of RRC connection setup	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	166	2	3.1.0	R99	Inter-frequency measurements in CELL_FACH state	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	167		3.1.0	R99	List of found editorial mistakes in the Dec99 version of 25.331 (V3.1.0)	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	168	1	3.1.0	R99	Transport block size	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	169	1	3.1.0	R99	Cell Access Restriction	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	170		3.1.0	R99	Editorial modification	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000044	25.331	171		3.1.0	R99	Modification of DPCH info	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	172	1	3.1.0	R99	Measurement control message	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	173	2	3.1.0	R99	Reporting cell status	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	174		3.1.0	R99	Additional IE for RB release	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	175		3.1.0	R99	Available SF in PRACH info	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	176		3.1.0	R99	Traffic volume measurement event	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	177		3.1.0	R99	Report of multiple cells on an event result	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	178		3.1.0	R99	Editorial modification on Direct Transfer	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	179		3.1.0	R99	Correction of the Security Mode Control procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	180	1	3.1.0	R99	Maximum calculated Transport Format Combination	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	183		3.1.0	R99	Additional DPCH IEs to align 25.331 with 25.214	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	184	1	3.1.0	R99	RB – DCH mapping	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	188	1	3.1.0	R99	Modifications related to FDD mode DSCH	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	189	1	3.1.0	R99	Identification of Shared Channel Physical Configuration in TDD Mode	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-000045	25.331	192	1	3.1.0	R99	Uplink Outer Loop Power Control During Hard Handover	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	193		3.1.0	R99	Support of Multiple CCTrCH's in TDD Mode	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	194	1	3.1.0	R99	Uplink Physical Channel Control in TDD Mode	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	201	1	3.1.0	R99	Transfer of initial information from UE to target RNC prior to handover to UTRAN	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	202	1	3.1.0	R99	CN information elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	203		3.1.0	R99	UTRAN mobility information elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000045	25.331	204	1	3.1.0	R99	RB information elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	205	1	3.1.0	R99	Physical channel information elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	206	1	3.1.0	R99	UE capability information elements	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	207		3.1.0	R99	UE variables	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	208	1	3.1.0	R99	Actions when entering idle mode	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	209		3.1.0	R99	Usage of pilot bits	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	210		3.1.0	R99	System information procedure corrections	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	212		3.1.0	R99	Reconfiguration of ciphering	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	213	1	3.1.0	R99	Enhancements to RRC connection re-establishment procedure	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	215		3.1.0	R99	Updates to RRC Initialization Information transparent container and addition of reverse direction container description	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	220	1	3.1.0	R99	Changes in RRC messages to support lossless SRNC relocation	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	229	1	3.1.0	R99	Measurements of unlisted neighbouring cells	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	234	2	3.1.0	R99	Inclusion of Location Services	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	236	1	3.1.0	R99	Application of Access Service Classes and relation to Access Classes	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	252	1	3.1.0	R99	DRX indicator presence and state entering mechanism at the end of a procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	254	1	3.1.0	R99	Physical shared channel allocation procedure	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-000046	25.331	255		3.1.0	R99	Corrections to TDD specific parameters in PICH info	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	256		3.1.0	R99	Editorial modifications	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	259	2	3.1.0	R99	Introduction of mapping function information in Cell selection and	approved	B	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	263		3.1.0	R99	Ciphering and integrity HFN	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000046	25.331	267		3.1.0	R99	New SIB for LCS	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000047	25.331	268		3.1.0	R99	Removal of synchronisation Case 3	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000047	25.331	271		3.1.0	R99	TX Diversity	approved	C	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000047	25.331	272		3.1.0	R99	Update of tabular format Section 10	approved	D	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000047	25.331	273		3.1.0	R99	ASN.1 description	approved	F	3.2.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-000073	25.401	001	1	3.1.0	R99	Generalisation of the combining/splitting functionality in UTRAN	approved	F	3.2.0	UTRAN Overall Description	R3
RP-000073	25.401	003	1	3.1.0	R99	Extension with CBS Topic	approved	B	3.2.0	UTRAN Overall Description	R3
RP-000073	25.401	004	2	3.1.0	R99	Corrections to 25.401	approved	F	3.2.0	UTRAN Overall Description	R3
RP-000073	25.401	005		3.1.0	R99	UTRAN Cell-Id not visible over Iu	approved	F	3.2.0	UTRAN Overall Description	R3
RP-000073	25.401	006	2	3.1.0	R99	Changes for CPCH	approved	B	3.2.0	UTRAN Overall Description	R3
RP-000073	25.401	007		3.1.0	R99	Transport layer in Iub U-Plane.	approved	F	3.2.0	UTRAN Overall Description	R3
RP-000074	25.402	001		3.0.0	R99	Corrections to 25.402	approved	F	3.1.0	Synchronisation in UTRAN Stage 2	R3
RP-000074	25.402	002		3.0.0	R99	Time alignment	approved	C	3.1.0	Synchronisation in UTRAN Stage 2	R3
RP-000074	25.402	003	1	3.1.0	R99	Corrections in the TS 25.402 (the one that includes CR1 and CR2)	approved	F	3.1.0	Synchronisation in UTRAN Stage 2	R3
RP-000074	25.402	004	2	3.1.0	R99	Introduction of Node B synchronisation of the last 8 bits of SFN	approved	B	3.2.0	Synchronisation in UTRAN Stage 2	R3
RP-000074	25.402	005		3.0.0	R99	Addition of Time Alignment Handling feature	approved	B	3.1.0	Synchronisation in UTRAN Stage 2	R3
RP-000075	25.410	001	3	3.1.0	R99	Extension with Service Area Broadcast Protocol	approved	B	3.2.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-000075	25.410	002		3.1.0	R99	Changing local RAB ID to global	approved	C	3.2.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-000075	25.410	003	1	3.1.0	R99	High-level Iu interface changes for SA Broadcast	approved	B	3.2.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-000075	25.410	004	1	3.1.0	R99	Protocol stack updates for Iu-PS	approved	C	3.2.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-000076	25.411	001		3.1.0	R99	Precise wording in section 7.2 with respect to Fractional ATM.	approved	D	3.2.0	UTRAN Iu interface Layer 1	R3
RP-000077	25.412	001		3.2.0	R99	Removal of ATM Protection Switching	approved	C	3.1.0	UTRAN Iu interface signalling transport	R3
RP-000077	25.412	002	1	3.2.0	R99	Protocol stack updates for Iu-PS	approved	C	3.1.0	UTRAN Iu interface signalling transport	R3

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RP-000081	25.413	001	3	3.0.0	R99	Correction CR on CN broadcast procedure. Part of the Iu subworking group.	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	002	1	3.0.0	R99	Criticality Information within the Message Tabular Format	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	003		3.0.0	R99	Corrections within ASN.1 definition of some security related IEs	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	004		3.0.0	R99	Corrections within RAB Assignment procedure description	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	005		3.0.0	R99	Some editorial modifications of EP descriptions related to relocation of SRNS	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	006		3.0.0	R99	Editorial Modification of the Chosen UP Version IE description	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	007		3.0.0	R99	Removal of an out of date statement about a specifc order of IEs within RANAP messages.	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	008		3.0.0	R99	Additional description of the usage of “no encryption” and the prioritation of UEAs within RANAP EP description	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	009	1	3.0.0	R99	CR to 25.413: cause value range of cause miscelleneous in RANAP (CR9r1)	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	010	1	3.0.0	R99	CR to 25.413: Cause value related to relocation (CR10r1)	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	011	1	3.0.0	R99	CR to 25.413: missing cause value in RANAP (CR11r1)	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	012		3.0.0	R99	CR to 25.413: Correction in RANAP:RAB Assignment Response message	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	013		3.0.0	R99	Correction of the presence of Transparent Container IEs in RANAP RELOCATION REQUIRED and RELOCATION COMMAND message	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	014		3.0.0	R99	Definition of Transport Layer Address	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	015		3.0.0	R99	CR to 25.413: Correction to NAS Broadcast Information IE description	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000081	25.413	016	2	3.0.0	R99	CR to 25.413: Correcting the conditions for RAB information in Relocation Request Acknowledge message	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	017		3.0.0	R99	CR to 25.413: Correction of the type of d-RNTI in RANAP ASN.1	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	018		3.0.0	R99	Report RABs for which a Data Volume report can’t be generated in the Data Volume Report message.	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	019		3.0.0	R99	Handle invalid RAB IDs in the SRNS Context Transfer procedure	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	020		3.0.0	R99	Initiation of Iu Release procedure as a consequence of RAB RELEASE REQUEST.	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	021		3.0.0	R99	New Cause values in RANAP.	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	024	2	3.0.0	R99	Corrections of RANAP RAB parameters	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	025	1	3.0.0	R99	Clarification on criticality modelling	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	026		3.0.0	R99	Enhancement of the description of the message type IE	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	028	1	3.0.0	R99	This is an update to tdoc R3-000532. New CR28r1.	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	029		3.0.0	R99	Introduction of ‘Presence’ information element for Extension	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	030		3.0.0	R99	Editorial changes to RANAP	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	031	1	3.0.0	R99	Definition of global RAB ID in RANAP	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3

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RP-000080	25.413	032	1	3.0.0	R99	Renaming NAS Binding information to RAB ID and removing local RAB ID in RANAP	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	033		3.0.0	R99	Correction of the tabular format for the Cause IE	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000078	25.413	034		3.0.0	R99	CN Domain Identifier in Target ID in Relocation Required	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	036		3.0.0	R99	Clarification of when RELOCATION REQUEST ACKNOWLEDGE will contain the transparent container	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	037		3.0.0	R99	Clarifying of failure situations for RAB Assignment	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	038		3.0.0	R99	DL/UL GTP-PDU Sequence Numbers on wrong level in RAB Assignment Response	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	040		3.0.0	R99	Clarification of the interaction between Event Reported and Direct Reported Location Reporting	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	042	1	3.0.0	R99	Clarifications in the Paging and Common ID procedures	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	043		3.0.0	R99	Aligning the definition of N-PDU Sequence Number throughout RANAP	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	044		3.0.0	R99	Cause value “RAB pre-empted” moved from IU RELEASE REQUEST to RAB RELEASE REQUEST	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	045		3.0.0	R99	Clarification of relation between RAB and Radio Bearers	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	046		3.0.0	R99	Cause value to use in connection with Relocation Preparation	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	047		3.0.0	R99	Correction of range for security algorithms and number of keys	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	049		3.0.0	R99	Security information in Relocation messages	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	050		3.0.0	R99	Resetting of HFN when new security keys are activated	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	051	1	3.0.0	R99	Clarification of Elementary Procedure Definition	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	052		3.0.0	R99	Addition of exception to Error Indication	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	053	2	3.0.0	R99	Addition of Paging related parameter: CR53r2	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	054	1	3.0.0	R99	CR to 25.413: Editorial correction of cause in RANAP	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	055	1	3.0.0	R99	CR to 25.413: Modifying Conditions for security information in Source RNC to Target RNC Transparent Container	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	056	2	3.0.0	R99	Coding and definition of RANAP Relocation InformationCR56r2	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000081	25.413	057	2	3.0.0	R99	CR to 25.413: Clarification of CN actions for RAB Release Request	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	058	1	3.0.0	R99	CR to 25.413: Clarification of CN actions for Iu Release Request	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000081	25.413	061	1	3.0.0	R99	Handling of possible inconsistencies between LAC and SAI in Initial UE message	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	062		3.0.0	R99	Removal of interaction between Iu Release and Relocation Resource	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	063		3.0.0	R99	CN intitiated RAB release during ongoing RAB Assingment procedure	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000079	25.413	066		3.0.0	R99	CR to 25.413: Editorial changes to RANAP for better readability the level of indentation has been indicated by arrows.	approved	D	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	067	4	3.0.0	R99	Iu signalling connection identity: CR67r4	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3

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RP-000079	25.413	068		3.0.0	R99	Relocation execution trigger	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	069		3.0.0	R99	Start Timer TDATAfwd upon reception of RELOCATION COMMAND	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	070	2	3.0.0	R99	Target Cell ID at SRNS Relocation with UE involvement	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	071	2	3.0.0	R99	Addition of Call Trace Deactivation functionality	approved	B	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	072	1	3.0.0	R99	CR to 25.413: Addition of a Cause Value - 'Repeated Integrity Checking Failure' for Iu Release Request	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	073		3.0.0	R99	Alignment of PDCP Sequence Number Length with RAN 2	approved	F	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000080	25.413	074		3.0.0	R99	Proposed changes to RANAP ASN.1 descriptions for private messages	approved	C	3.1.0	UTRAN Iu interface RANAP signalling	R3
RP-000082	25.414	001	1	3.2.0	R99	Extension with Service Area Broadcast Protocol	approved	B	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	002	1	3.2.0	R99	Correction and clarification of IP over ATM in 25.414, rev 1	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	003		3.2.0	R99	Removal of ATM Protection Switching	approved	C	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	004		3.2.0	R99	Clarification to the use of SSSAR (ITU-T I.366.1)	approved	C	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	006	1	3.2.0	R99	Formal cleanup of 25.414	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	007		3.2.0	R99	IPv6 support as optional in Iu and Gn	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	008		3.2.0	R99	Clarification of Multi protocol encapsulation	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	009		3.2.0	R99	Removal of UDP port description in 25.414	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	011	1	3.2.0	R99	Clarification of using IP over ATM	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000082	25.414	013	1	3.2.0	R99	Quality of Service differentiation over Iu-PS	approved	F	3.3.0	UTRAN Iu interface data transport & transport signalling	R3
RP-000096	25.415	001	1	3.1.0	R99	Time Alignment	approved	B	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	002		3.1.0	R99	Addition of spare extension	approved	C	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	003		3.1.0	R99	Correction of frame format and coding sections	approved	F	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	004		3.1.0	R99	Removal of AMR mapping table	approved	D	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	005		3.1.0	R99	Iu timing	approved	C	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	006	1	3.1.0	R99	O&M data addition	approved	F	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	007	1	3.1.0	R99	Modification of the CRC description	approved	C	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	008	1	3.1.0	R99	Initialisation and rate control	approved	C	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	010		3.1.0	R99	Cleanup of 25.415	approved	F	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000096	25.415	014		3.1.0		Removal of Rate Control from Iu-UP-Status Request primitive	approved	F	3.2.0	UTRAN Iu interface user plane protocols	R3
RP-000097	25.420	001	2	3.0.0	R99	Changes for CPCH	approved		3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3
RP-000097	25.420	002		3.0.0	R99	Correction of Iur Architecture Figure	approved	D	3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3

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RP-000097	25.420	003	2	3.0.0	R99	Generalisation of the	approved	F	3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3
RP-000097	25.420	004	1	3.0.0	R99	DSCH and USCH over Iur	approved	B	3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3
RP-000097	25.420	006	2	3.0.0	R99	Problem with piggybacking RADIO LINK SETUP REQUEST message on SCCP: CR message	approved	F	3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3
RP-000097	25.420	007	1	3.0.0	R99	Protocol stack updates	approved	F	3.1.0	UTRAN Iur Interface: General Aspects and Principles	R3
RP-000147	25.422	001		3.2.0	R99	Removal of ATM Protection Switching	approved	C	3.3.0	UTRAN Iur interface signalling transport	R3
RP-000097	25.422	003	1	3.2.0	R99	Protocol stack updates	approved	F	3.3.0	UTRAN Iur interface signalling transport	R3
RP-000100	25.423	001	1	3.0.0	R99	Changes for CPCH	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	002	3	3.0.0	R99	ddition of IEs required by the DRAC procedure in RNSAP messages	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	003	2	3.0.0	R99	Editorial update of RNSAP	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	004		3.0.0	R99	Editorial changes to 25.423	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	005		3.0.0	R99	Missing BLER in RL RECONFIGURATION REQUEST	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	006		3.0.0	R99	Adding of the PCCPCH Power within Neighbouring TDD Cell Information	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	007	3	3.0.0	R99	Addition of measurement threshold information elements.	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	008		3.0.0	R99	RNSAP extendibility	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	009		3.0.0	R99	Repetition of compressed mode information elements.	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	010		3.0.0	R99	Changing Eb/N0 to SIR	approved	B	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	011		3.0.0	R99	TPC Step Size defined for TDD	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	013		3.0.0	R99	Addition of DRX description in Paging procedure description text and addition of new information elements in PAGING REQUEST message.	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	014	1	3.0.0	R99	Removal of an out of date statement about a specifc order of IEs within RNSAP messages.	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	015		3.0.0	R99	Modification to RADIO LINK ADDITION procedure and related parameters	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	016	2	3.0.0	R99	Rearrangement of Neighbouring Cell Information group	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	017		3.0.0	R99	Primary CPICH Power	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	018	1	3.0.0	R99	Change of definition of QE	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	019	1	3.0.0	R99	RL-Failure/Restoration procedure text update	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	020	1	3.0.0	R99	Introduction of RLS in RNSAP	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	021		3.0.0	R99	Clarification of UL/DL signalling transfer proc. and Uu interface	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	022	1	3.0.0	R99	Restriction to allowed procedure parallelism	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	023		3.0.0	R99	Clarification on measurement characteristics	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	024		3.0.0	R99	Alignment to R3 definition of puncturing limit range and step size	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	025	1	3.0.0	R99	Inclusion of Beta C/D TFCS	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	026	1	3.0.0	R99	Clarification on criticality modelling	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	027		3.0.0	R99	Enhancement of the description of the message type IE	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3

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RP-000146	25.423	031	1	3.0.0	R99	Criticality assignment for RNSAP	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	032	1	3.0.0	R99	This is an update to trdoc R3-000535. New CR32r1.	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	034	1	3.0.0	R99	Removal of Sync Case 3	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	035		3.0.0	R99	Introduction of 'Presence' information element for Extension	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	036	1	3.0.0	R99	UL Interference for TDD	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	037	1	3.0.0	R99	TDD Neighbor Cell Power	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000143	25.423	038		3.0.0	R99	Clarification on the "BLER" parameter	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	039	1	3.0.0	R99	Clarification on the "RLC Mode" parameter	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	040	1	3.0.0	R99	Clarification on the DL power control procedure and message	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	041	1	3.0.0	R99	Definition of the DL Power IE	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	042	1	3.0.0	R99	Clarification on the definition of the parameter	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	043	1	3.0.0	R99	Replacement of the mean bit rate parameter with the 'TrCh Source Statistics Descriptor'	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	045	2	3.0.0	R99	Support of infinite PD in compressed mode (RNSAP)	approved	B	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	047	1	3.0.0	R99	A new IE for "RL information" regarding Transmit Diversity (RNSAP)	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	048	2	3.0.0	R99	Additional IEs to Neighbouring Cell Information regarding Tx Diversity	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	050	2	3.0.0	R99	UL and DL UARFCN (RNSAP)	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	051	1	3.0.0	R99	Some Editorial modifications to RNSAP	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	053	1	3.0.0	R99	Addition of "Cell Individual Offset" IE to Neighbouring Cell Information	approved	B	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	054	1	3.0.0	R99	Modification to "TGD" unit and range (RNSAP)	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	055	1	3.0.0	R99	Addition of exception to Error Indication	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000146	25.423	056	3	3.0.0	R99	CR to 25.423: Refinement of Tabular and ASN.1 in RNSAP	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	057	1	3.0.0	R99	Problem with piggybacking RADIO LINK SETUP REQUEST message on SCCP: CR message	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	058	2	3.0.0	R99	Maximum allowed UL Tx Power in a cell	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	060	1	3.0.0	R99	Clarification on the C-RNTI parameter in UL signalling transfer procedure	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	061	1	3.0.0	R99	Proposed changes to RNSAP ASN.1 descriptions for private messages	approved	C	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	062	1	3.0.0	R99	CR to 25.423: Editorial changes to RNSAP for better readability the level of indentation has been indicated by arrows.	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	063	2	3.0.0	R99	Editorial modifications of RNSAP version 3.0.0	approved	D	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000100	25.423	064	1	3.0.0	R99	Power Ramping [RNSAP]	approved	F	3.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-000122	25.424	001	1	3.1.0	R99	Changes for CPCH	revised	C		UTRAN Iur interface data transport & transport signalling for CCH data streams	R3
RP-000148	25.424	001	1	3.1.0	R99	Changes for CPCH	approved	C	3.2.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	R3

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RP-000122	25.424	002		3.1.0	R99	Removal of ATM Protection Switching	revised	C		UTRAN Iur interface data transport & transport signalling for CCH data streams	R3
RP-000148	25.424	002		3.1.0	R99	Removal of ATM Protection Switching	approved	C	3.2.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	R3
RP-000122	25.424	003		3.1.0	R99	USCH over Iur	revised	C		UTRAN Iur interface data transport & transport signalling for CCH data streams	R3
RP-000148	25.424	003		3.1.0	R99	USCH over Iur	approved	C	3.2.0	UTRAN Iur interface data transport & transport signalling for CCH data streams	R3
RP-000102	25.425	001	4	3.0.0	R99	Changes for CPCH	approved	C	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	002		3.0.0	R99	Handling of unknown IE or illegal IE value	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	003		3.0.0	R99	Modification to RACH/FACH FP structures	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	004		3.0.0	R99	Renaming of MAC-c to MAC-c/sh	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	005		3.0.0	R99	Coding of Common Transport Channel Priority Indicator IE	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	006	1	3.0.0	R99	Addition of Spare Extension.	approved	B	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	007		3.0.0	R99	Addition of UE-ID Indicator IE in Iur FACH FP	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	009		3.0.0	R99	Aligned definition of Rx Timing Deviation	approved	F	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000102	25.425	010	2	3.0.0	R99	Inclusion of DSCH and [TDD USCH] FP procedures	approved	B	3.1.0	UTRAN Iur interface user plane protocols for CCH data streams	R3
RP-000103	25.426	001		3.1.0	R99	Removal of ATM Protection Switching (This document is the accepted version of R3-000147)	approved	C	3.2.0	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	R3
RP-000104	25.427	001	1	3.1.0	R99	Modification of the CRC description	approved	D	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	002		3.1.0	R99	Changing Eb/N0 to SIR.	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	003		3.1.0	R99	Modification of Uplink Data Transfer procedure.	approved	B	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	004		3.1.0	R99	Modification to DCH control frame protocol passing TFI signalling for DSCH	approved	C	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	005		3.1.0	R99	Change of definition of QE	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	006	1	3.1.0	R99	Radio Interface Parameter Updates	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	007	1	3.1.0	R99	Addition of Spare Extension.	approved	B	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	008		3.1.0	R99	Corrections to 25.427 on DTX	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	009		3.1.0	R99	Editorial changes to 25.427	approved	D	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3

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RP-000104	25.427	010		3.1.0	R99	Aligned definition of Rx Timing Deviation	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	011	1	3.1.0	R99	DCH Frame Protocol Error Handling Clarification	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	012		3.1.0	R99	Removal of open issues chapter	approved	D	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000104	25.427	013	1	3.1.0	R99	DL user plane synchronisation	approved	F	3.2.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-000105	25.430	001	4	3.0.0	R99	Changes for CPCH	approved	C	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	002	1	3.0.0	R99	Correction of Node B common resources for TDD	approved	F	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	003	1	3.0.0	R99	PDSCH and PUSCH handling in NodeB	approved	C	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	004		3.0.0	R99	Clarification to the functional split of System Information over Iub	approved	C	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	005	2	3.0.0	R99	Generalisation of the combining/splitting functionality in the Node B	approved	F	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	006		3.0.0	R99	Data stream definitions	approved	D	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000105	25.430	007		3.0.0	R99	Functional list update	approved	F	3.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-000128	25.433	002		3.0.0	R99	Editorial Improvements of NBAP version 3.0.0	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	003		3.0.0	R99	Insertion of missing mapping table; Functions to Elementary Procedures	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	004		3.0.0	R99	Replacement of the Error Indication procedure with the procedure text agreed at RAN WG3 #9	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	005		3.0.0	R99	Missing Cause Values in the RL Failure procedure	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	007		3.0.0	R99	Scope of Transaction id	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	008	3	3.0.0	R99	Addition of measurement threshold information elements.	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	009		3.0.0	R99	NBAP Extendibility	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	010		3.0.0	R99	Correction of Antenna Diversity parameters for TDD	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	011	2	3.0.0	R99	Update to R3-000441.	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	012	4	3.0.0	R99	Physical shared channel reconfiguration	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	013		3.0.0	R99	Repetition of compressed mode information elements.	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	014		3.0.0	R99	Changing Eb/N0 to SIR.	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	015		3.0.0	R99	TPC Step Size defined for TDD	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	017		3.0.0	R99	Simplified Audit procedure	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	018		3.0.0	R99	Use of Error Indication procedure on signalling bearers corresponding to the Node B control port	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	019	1	3.0.0	R99	Update of system information procedure	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	020		3.0.0	R99	Correction of number of possible CPICHs in a cell	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	022		3.0.0	R99	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : Common Module	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3

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RP-000128	25.433	023		3.0.0	R99	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : Elementary Procedure Module	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	024	1	3.0.0	R99	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : PDU Module and correction of the tarbular format. (CR24r1)	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	025		3.0.0	R99	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : Information Element Module	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	026		3.0.0	R99	CR to 25.433: Editorial Correction of the ASN.1 with the Syntax Checking of the NBAP : Constant Module	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	027	1	3.0.0	R99	Modification for number of PCH channels for TDD	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	028		3.0.0	R99	Modifications to RADIO LINK ADDITION procedure and related parameters	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	029		3.0.0	R99	Frame Offset Correction	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	030		3.0.0	R99	Primary CPICH Power	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	031	1	3.0.0	R99	Change of definition of QE	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	032	1	3.0.0	R99	Update to R3-000478: CR32r1	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	033	1	3.0.0	R99	Introduction of RLS in NBAP	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	034	1	3.0.0	R99	Restriction to allowed procedure parallelism	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	035		3.0.0	R99	Clarification on measurement characteristics	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000128	25.433	036		3.0.0	R99	Alignment to R3 definition of puncturing limit range and step size	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	037		3.0.0	R99	Pre-amble threshold for PRACH	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	038	1	3.0.0	R99	Inclusion of Beta C/D TFCS	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	039		3.0.0	R99	Clarification of the Blocking and Unblocking procedures	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	040	1	3.0.0	R99	Editorial fault in tabular format	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	041	1	3.0.0	R99	Clarification on criticality modelling	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	042		3.0.0	R99	Enhancement of the description of the message type IE	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	043	3	3.0.0	R99	Capacity Modeling of Node B	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	045	1	3.0.0	R99	Addition of exception to Error Indication	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	046	1	3.0.0	R99	Introduction of 'Repetition Number' into 'Criticality Diagnostics'	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	047	2	3.0.0	R99	Criticality assignment for NBAP	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	048	2	3.0.0	R99	Removal of Sync Case 3	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	050		3.0.0	R99	Introduction of 'Presence' information element for Extension	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	051	1	3.0.0	R99	UL Interference for TDD	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	052	2	3.0.0	R99	Clarification on the "RLC Mode" parameter	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	053	1	3.0.0	R99	Clarification on the definition of the DL Power IE	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	054	1	3.0.0	R99	Clarification on the DL power control procedure and message	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	055	2	3.0.0	R99	Introduction of "TFCI	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	057	1	3.0.0	R99	A new IE for "RL information" regarding Transmit Diversity (NBAP)	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3

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RP-000108	25.433	058	2	3.0.0	R99	Support of infinite PD in compressed mode (RNSAP)	approved	B	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	061	1	3.0.0	R99	Some Editorial modifications to NBAP	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	062	1	3.0.0	R99	UL and DL UARFCN (NBAP)	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	064	1	3.0.0	R99	Modification to “TGD” unit and range (NBAP)	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	065	1	3.0.0	R99	Modification of System Information related IEs	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	067	1	3.0.0	R99	estructuring of System Information Update Request	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	071	1	3.0.0	R99	Addition of cause values for NBAP block resource procedure	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	072	1	3.0.0	R99	Addition of new indication type category in Resource Status Indication message	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	073	1	3.0.0	R99	Proposed changes to NBAP to incorporate Node B capacity modelling	approved	C	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	074	1	3.0.0	R99	CR to 25.433: Editorial changes to NBAP for better readability the level of indentation has been indicated by arrows.	approved	D	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000107	25.433	076	1	3.0.0	R99	Beginning of DL transmission in one RL	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000108	25.433	077	1	3.0.0	R99	Correction for RACH	approved	F	3.1.0	UTRAN Iub interface NBAP signalling	R3
RP-000109	25.434	001	1	3.1.0	R99	Changes for CPCH	approved	C	3.2.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	R3
RP-000109	25.434	002		3.1.0	R99	Changes for USCH	approved	C	3.2.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	R3
RP-000110	25.435	001	3	3.1.0	R99	Changes for CPCH	approved	B	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	002		3.1.0	R99	DSCH data frame with PDSCH Identifier	approved	C	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	003		3.1.0	R99	USCH frame protocol with PUSCH Identifier	approved	C	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	004		3.1.0	R99	Correction for the PI-bitmap coding.	approved	F	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	005	1	3.1.0	R99	Modification of the CRC description	approved	D	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	006	2	3.0.0	R99	Modification to DSCH frame protocol	approved	C	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	007	1	3.1.0	R99	Addition of Spare Extension.	approved	B	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	009		3.1.0	R99	Corrections to 25.435 on DTX	approved	F	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	010		3.1.0	R99	Aligned definition of Rx Timing Deviation	approved	F	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	011		3.1.0	R99	Correction of PI Bitmapping for TDD	approved	F	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	012		3.1.0	R99	Add QE in USCH Data Frame	approved	F	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000110	25.435	013	1	3.0.0	R99	CCH Frame Protocol error handling	approved	F	3.1.0	UTRAN Iub interface user plane protocols for CCH data streams	R3

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RP-000110	25.435	014		3.1.0	R99	Removal of open issues chapter	approved	D	3.2.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-000111	25.442	001	1	3.1.0	R99	Clarifications to Implementation Specific O&M Transport	approved	F	3.2.0	UTRAN Implementation Specific O&M Transport	R3
RP-000048	25.921	001	2	3.0.0	R99	Further clarifications on specialised encoding	approved	D	3.1.0	Guidelines and principles for protocol description and error handling	R2
RP-000048	25.921	003	1	3.0.0	R99	Modification of the 'presence' column specification in tabular format, and other editorial modifications	approved	D	3.1.0	Guidelines and principles for protocol description and error handling	R2
RP-000048	25.921	005		3.0.0	R99	Editorial corrections on section 11.2	approved	D	3.1.0	Guidelines and principles for protocol description and error handling	R2
RP-000048	25.921	006		3.0.0	R99	Improvement of integers and enumerated, and introduction of reals and octet strings	approved	D	3.1.0	Guidelines and principles for protocol description and error handling	R2
RP-000049	25.922	001		3.0.0	R99	PDSCH code usage and signalling	approved	F	3.1.0	Radio Resource Management Strategies	R2
RP-000050	25.925	001		3.0.0	R99	Miscellaneous corrections	approved	F	3.1.0	Radio Interface for Broadcast/Multicast Services	R2
RP-000050	25.925	002		3.0.0	R99	Correction of RNC functions	approved	F	3.1.0	Radio Interface for Broadcast/Multicast Services	R2
SP-000025	26.073	001		3.0.0	R99	Avoidance of pulse cancellation in FCB excitation	approved	A	3.1.0	AMR speech Codec; C-source code	S4
SP-000025	26.101	001		3.0.0	R99	Correction of indices in Annex B table	approved	F	3.1.0	AMR speech Codec; Frame Structure	S4
SP-000025	26.101	002		3.0.0	R99	Addition of comfort noise bit ordering	approved	F	3.1.0	AMR speech Codec; Frame Structure	S4
SP-000025	26.101	003		3.0.0	R99	Correction of table indexing for AMR Core Frame class division	approved	F	3.1.0	AMR speech Codec; Frame Structure	S4
SP-000025	26.101	004		3.0.0	R99	Clarification of bit transmission order for AMR frame structure parameters for AMR IF1	approved	F	3.1.0	AMR speech Codec; Frame Structure	S4
SP-000025	26.102	001	3	3.0.0	R99	Introduction of QoS parameters used at RAB assignment	approved	C	3.1.0	AMR speech Codec; Interface to Iu and Uu	S4
SP-000025	26.102	002		3.0.0	R99	Introduction of different RFCS set on Iu User Plane	approved	C	3.1.0	AMR speech Codec; Interface to Iu and Uu	S4
SP-000025	26.102	003	2	3.0.0	R99	Introduction of Time Alignment	approved	B	3.1.0	AMR speech Codec; Interface to Iu and Uu	S4
NP-000046	27.001	010		3.3.0	R99	FALLBACK TO SPEECH IN A CS MULTIMEDIA CALL SETUP	approved	B	3.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-000044	27.001	011		3.3.0	R99	Bit transparent services RDI and UDI	approved	F	3.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-000045	27.001	012		3.3.0	R99	FTM corrections	approved	F	3.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-000044	27.001	013		3.3.0	R99	Alignment to RANAP and other clarifications	approved	C	3.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-000046	27.001	014		3.3.0	R99	Corrections related to MULTIMEDIA	approved	F	3.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-000044	27.002	003		3.2.0	R99	UMTS clean up	approved	F	3.3.0	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3
NP-000044	27.003	004		3.2.0	R99	UMTS clean up	approved	F	3.3.0	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3
TP-000024	27.007	023		3.3.0	R99	Deletion of the +CPROT? read command	approved	F	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	024		3.3.0	R99	Additional format(4 digits) for +CCLK	postponed	B		AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	025		3.3.0	R99	Adaptations for UMTS	approved	F	3.4.0	AT command set for 3G User Equipment (UE)	T2

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TP-000024	27.007	026		3.3.0	R99	References to ASCI Specifications	approved	D	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	027		3.3.0	R99	Abbreviations related to ASCI	approved	D	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	028		3.3.0	R99	Priority indication in +CLCC, List Current Calls	approved	B	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	029		3.3.0	R99	Indication of priority, sub-address, sub-address type and TS 91/TS92 in +CRC, Cellular Result Codes	approved	B	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	030		3.3.0	R99	Commands for ASCI	approved	B	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	031		3.3.0	R99	Commands for eMLPP	approved	B	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.007	032		3.3.0	R99	Example for usage of priority	approved	B	3.4.0	AT command set for 3G User Equipment (UE)	T2
TP-000024	27.010	005		3.2.0	R99	Adaptations for UMTS	approved	F	3.3.0	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	T2
NP-000050	27.060	010		3.3.0	R99	Correction of the support for IPv6 for the MS.	approved	F	3.4.0	GPRS Mobile Stations supporting GPRS	N3
NP-000048	27.060	011		3.3.0	R99	N1 VOCABULARY ALIGNMENT	approved	F	3.4.0	GPRS Mobile Stations supporting GPRS	N3
NP-000048	27.060	012		3.3.0	R99	Removal of X.25 from R'99 Packet Domain	approved	F	3.4.0	GPRS Mobile Stations supporting GPRS	N3
NP-000049	27.060	013		3.3.0	R99	Specification reference section clean-up	approved	F	3.4.0	GPRS Mobile Stations supporting GPRS	N3
NP-000073	29.002	048	5	3.3.1	R99	Introduction of Multicall	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000065	29.002	059	1	3.3.1	R99	Alternative solution for ALR	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000072	29.002	063	4	3.3.1	R99	MNP Data base mismatch	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000066	29.002	066	5	3.3.1	R99	Addition of the FTN-AddressString	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000065	29.002	079	4	3.3.1	R99	Correction of SS Invocation Notification for CCBS	approved	C	3.4.0	Mobile Application Part (MAP)	N2
NP-000065	29.002	080		3.3.1	R99	Corrections to ATSI, ATM, NCSD	approved	F	3.4.0	Mobile Application Part (MAP)	N2
NP-000071	29.002	083		3.3.1	R99	Privacy notification/verification for call related privacy class	approved	A	3.4.0	Mobile Application Part (MAP)	N2
NP-000077	29.002	084	2	3.3.1	R99	Addition of CS Allocation/retention priority	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000079	29.002	086	1	3.3.1	R99	Various editorial corrections	approved	D	3.4.0	Mobile Application Part (MAP)	N2
NP-000078	29.002	087		3.3.1	R99	Correction of LSA Information	approved	F	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	089		3.3.1	R99	Security interworking between release 99 and pre-99 MSC/VLRs	approved		3.4.0	Mobile Application Part (MAP)	N2
NP-000067	29.002	090	1	3.3.1	R99	Improving GPRS charging efficiency	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	092	4	3.3.1	R99	Introduction of Enhanced User Identity Confidentiality	rejected	B		Mobile Application Part (MAP)	N2
NP-000077	29.002	094	2	3.3.1	R99	QoS- Subscribed field enhancements	approved	C	3.4.0	Mobile Application Part (MAP)	N2
NP-000070	29.002	095	1	3.3.1	R99	RANAP support on the E-interface	approved	C	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	099		3.3.1	R99	Addition of Current Security Context to Send_Identification_PVLR	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000073	29.002	100	5	3.3.1	R99	Support of 3G Handover, including Multicall	approved	C	3.4.0	Mobile Application Part (MAP)	N2
NP-000079	29.002	101	1	3.3.1	R99	Introduction of Service Area Identification	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	102	2	3.3.1	R99	Clarification on Authentication Info Retrieval	approved	F	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	103	1	3.3.1	R99	Addition of UMTS security to MAP B interface	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	104		3.3.1	R99	Re-Synchronisation Info	approved	F	3.4.0	Mobile Application Part (MAP)	N2
NP-000070	29.002	105	1	3.3.1	R99	Introduction of additional service parameters for inter-system handover	approved	C	3.4.0	Mobile Application Part (MAP)	N2
NP-000079	29.002	107		3.3.1	R99	Removal of architectural information from clause 4	approved	D	3.4.0	Mobile Application Part (MAP)	N2
NP-000076	29.002	110	1	3.3.1	R99	Introduction of Authentication Failure Report	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000079	29.002	111		3.3.1	R99	Use of MAP private extensions to implement region-specific requirements	approved	B	3.4.0	Mobile Application Part (MAP)	N2
NP-000063	29.002	112		3.3.1	R99	Priorisation of MAP application context related to VGCS/VBS	approved	A	3.4.0	Mobile Application Part (MAP)	N2

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NP-000071	29.002	113		3.3.1	R99	Correction of SS-Codes for LCS	approved	A	3.4.0	Mobile Application Part (MAP)	N2
NP-000044	29.007	012		3.3.0	R99	Clarification of reference to Q.931 for LLC IE	approved	F	3.4.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	N3
NP-000044	29.007	013		3.3.0	R99	CR to 29.007 for A-TRAU'	approved	B	3.4.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	N3
NP-000046	29.007	014		3.3.0	R99	FALLBACK TO SPEECH IN A CS MULTIMEDIA CALL SETUP	approved	B	3.4.0	General requirements on Interworking between the PLMN and the ISDN or PSTN	N3
NP-000070	29.010	003	1	3.1.0	R99	UMTS/GSM interworking	approved	B	3.2.0	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)	N2
NP-000070	29.010	004	1	3.1.0	R99	GSM/UMTS Interworking	approved	F	3.2.0	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)	N2
NP-000070	29.010	005		3.1.0	R99	UMTS/UMTS Handover	approved	C	3.2.0	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)	N2
NP-000091	29.018	003	2	3.2.0	R99	SGSN reaction upon a RAU request after VLR failure	approved	A	3.3.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	N1
NP-000101	29.018	007	3	3.2.0	R99	Introduction of the Service Area Identification	approved	B	3.3.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	N1
NP-000091	29.018	009		3.2.0	R99	Encoding of MS classmark in LUP Request	approved	F	3.3.0	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	N1
NP-000077	29.060	033	2	3.3.0	R99	Addition of Radio Priority to the SGSN Context Response	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000077	29.060	035	2	3.3.0	R99	Addition of Packet Flow Id to the SGSN Context Response	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	036	1	3.3.0	R99	Change the attribution of the PDP Context IE	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	037		3.3.0	R99	Add cause value	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	038		3.3.0	R99	Addition of NSAPI to GGSN-initiated Update PDP Context	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000079	29.060	040		3.3.0	R99	Improving charging efficiency	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-000079	29.060	041	1	3.3.0	R99	Subscriber and equipment trace for PS domain	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000079	29.060	042		3.3.0	R99	Necessity of the function of the calculation an SGSN IP address from the target ID	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	045	1	3.3.0	R99	Removal of Anonymous Access	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	046	1	3.3.0	R99	Clarification of Authentication Type and Import of Parameters	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	048		3.3.0	R99	Clarification of Information Elements	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	050	2	3.3.0	R99	Clarification on Protocol Type in GTP Header	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000067	29.060	051		3.3.0	R99	Clarification of Repeated Information Element Ordering	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	052	2	3.3.0	R99	Method for GTP extension headers support	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	053	2	3.3.0	R99	The addition of the conditional description of the GTP parameters	approved	B	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	056		3.3.0	R99	Change of naming when referring to primary and secondary contexts	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000067	29.060	057		3.3.0	R99	Removal of X.25	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000074	29.060	058	1	3.3.0	R99	Use of 3 Digit MNCs in GTP for R'99	approved	A	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000077	29.060	063	2	3.3.0	R99	QoS Profile IE modification	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	067	1	3.3.0	R99	Distribution of security data	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	069	1	3.3.0	R99	New cause codes for for TFT and packet filter errors	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	070		3.3.0	R99	IP v6 support in GTP	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	072	3	3.3.0	R99	Clarification on the use of TEID in the GTP header	revised	F		GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000165	29.060	072	4	3.3.0	R99	Clarification on the use of TEID in the GTP header	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000079	29.060	073		3.3.0	R99	Clarification to the function of the calculation an SGSN IP address from the target ID	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	075		3.3.0	R99	Changing references from GSM to 3G	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	076		3.3.0	R99	New table for Information Elements	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	077		3.3.0	R99	Forward SRSN Context CR	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	078	1	3.3.0	R99	PDCP sequence numbers in SRNC relocation and inter-system handover	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2

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NP-000069	29.060	079		3.3.0	R99	Removal of TCP support in the packet domain PLMN backbone network	approved	C	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000076	29.060	080	2	3.3.0	R99	GTP Security	postponed	C		GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000069	29.060	081		3.3.0	R99	Addition of PDP Context Identifier to PDP Context Information Element	approved	F	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000076	29.060	082	1	3.3.0	R99	Introduction of EUIC	rejected	B		GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000079	29.060	083		3.3.0	R99	Editorial clarification of information elements in the SGSN Context Response	approved	D	3.4.0	GPRS Tunnelling protocol (GPT) across the Gn and Gp interface	N2
NP-000049	29.061	009		3.2.0	R99	Specification reference section clean-up	approved	F	3.3.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-000047	29.061	010		3.2.0	R99	Support for the IP-Multicast protocol	approved	F	3.3.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-000050	29.061	011		3.2.0	R99	Corrction for IPv6 support to the Gi reference point, CR to 29.061	approved	F	3.3.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-000048	29.061	012		3.2.0	R99	Removal of X.25 from R'99 Packet Domain	approved	C	3.3.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-000048	29.061	013		3.2.0	R99	N1 VOCABULARY ALIGNMENT	approved	F	3.3.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
TP-000013	31.101	001	3	3.0.0	R99	Security Attributes	approved	B	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	002	2	3.0.0	R99	Incorporation of the USAT features.	approved	B	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	003	3	3.0.0	R99	File Control Parameters	approved	B	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	004	1	3.0.0	R99	Coding of status words	approved	F	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	006		3.0.0	R99	Definition of application session related procedures	approved	B	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	007		3.0.0	R99	Collection of 31.101 editorial changes	approved	D	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	008		3.0.0	R99	Power consumption	approved	C	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	009		3.0.0	R99	Changes to UICC specific files	approved	F	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000013	31.101	010		3.0.0	R99	Reservation of file IDs	approved	F	3.1.0	UICC / Terminal Interface; Physical and Logical Characteristics	T3
TP-000014	31.102	001		3.0.0	R99	Removal of EFappi	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	002		3.0.0	R99	Mandatory status for the EFs KcGPRS&LOCIGPRS	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	003	3	3.0.0	R99	Implementation of FDN (Fixed Dialling Numbers)	approved	B	3.1.0	Characteristics of the USIM Application	T3

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TP-000014	31.102	004	3	3.0.0	R99	Barred Dialling Numbers (BDN)	approved	B	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	005		3.0.0	R99	Emergency call codes	revised	F		Characteristics of the USIM Application	T3
TP-000019	31.102	005	2	3.0.0	R99	Emergency call codes	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	006		3.0.0	R99	Mandatory status for the EF containing the Packet switched domain keys	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	007		3.0.0	R99	Authentication	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	008		3.0.0	R99	Alignment of terminology for authentication; addition of Kc-GPRS procedure	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	009		3.0.0	R99	Correction to USIM specific FCP coding	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	010		3.0.0	R99	Correction for EFs regarding UE personalisation.	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	011		3.0.0	R99	Removal of SoLSA feature from Release 99	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	012		3.0.0	R99	Alignment with 33.102 - AUTHENTICATE Command	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	013		3.0.0	R99	Enhanced User Identity Confidentiality	withdrawn	B		Characteristics of the USIM Application	T3
TP-000014	31.102	014		3.0.0	R99	Introduction of e-mail addresses in the Phone Book	approved	B	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	015		3.0.0	R99	APN control list	approved	C	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	016		3.0.0	R99	Phone book example	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	017		3.0.0	R99	Alignment with GSM 11.11 R99	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	018		3.0.0	R99	Alignment with 33.102 - Cipher key and integrity key lifetime	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	019		3.0.0	R99	Operator controlled PLMN selection	approved	B	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	020		3.0.0	R99	Changes to 31.102 to align with 24.008	approved	C	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	021		3.0.0	R99	Collection of 31.102 editorial changes - part 1	approved	D	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	023		3.0.0	R99	Update to pre-personalisation values in Annex E	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	024		3.0.0	R99	Update to "EF changes via Data Download or USAT applications" table in Annex H	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	025	1	3.0.0	R99	Addition of security procedures	approved	B	3.1.0	Characteristics of the USIM Application	T3
TP-000014	31.102	026		3.0.0	R99	EF_LOCI access conditions	approved	F	3.1.0	Characteristics of the USIM Application	T3
TP-000015	31.110	001		3.0.0	R99	Addition of USIM version coding	approved	F	3.1.0	Numbering system for telecommunication IC card applications	T3
TP-000015	31.110	002		3.0.0	R99	Clarification of management of country codes and card issuer identifiers	approved	F	3.1.0	Numbering system for telecommunication IC card applications	T3
SP-000017	32.015	001		3.0.0	R99	IP v6 support GTP'	revised?	F		GSM charging PS domain	S5
SP-000017	32.015	002	1	3.0.0	R99	GTP' header length fix	approved	F	3.1.0	GSM charging PS domain	S5
SP-000017	32.015	003		3.0.0	R99	Charging Characteristics to CDRs	approved	B	3.1.0	GSM charging PS domain	S5
SP-000017	32.015	004		3.0.0	R99	include MSISDN in S,G,M-CDR	approved	B	3.1.0	GSM charging PS domain	S5
SP-000014	32.101	001		3.0.0	R99	Clarify use of X.25 as a Network Layer Protocol	approved	F	3.1.0	3G Telecom Management principles and high level requirements	S5
SP-000014	32.101	002		3.0.0	R99	Correction of IRP-related terminology	approved	F	3.1.0	3G Telecom Management principles and high level requirements	S5
SP-000014	32.101	003		3.0.0	R99	Clarification of Software Management	approved	C	3.1.0	3G Telecom Management principles and high level requirements	S5
SP-000015	32.102	001		3.0.0	R99	resolving remaining R99 inconsistency between 32.101 & 32.102	approved	F	3.1.0	3G Telecom Management architecture	S5
SP-000015	32.102	002		3.0.0	R99	Correction of IRP-related terminology	approved	F	3.1.0	3G Telecom Management architecture	S5
SP-000016	32.104	001		3.0.0	R99	Reduction of measurement job advance period	approved	C	3.1.0	3G Performance Management	S5

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SP-000016	32.104	002		3.0.0	R99	PM file format - ASN.1 description	approved	C	3.1.0	3G Performance Management	S5
SP-000112	33.102	043		3.3.1	R99	Clarification on cipher key and integrity key lifetime lifetime	approved	C	3.4.0	Security Architecture	S3
SP-000112	33.102	044		3.3.1	R99	local Authenication and connection establishment	approved	D	3.4.0	Security Architecture	S3
SP-000075	33.102	045	3	3.3.1	R99	Refinement EUIC	withdrawn?	F		Security Architecture	S3
SP-000077	33.102	047	2	3.3.1	R99	Interoperation and intersystem handover/change between UTRAN and GSM BSS	approved	C	3.4.0	Security Architecture	S3
SP-000112	33.102	048		3.3.1	R99	Clarification on the reuse of Avs	approved	C	3.4.0	Security Architecture	S3
SP-000112	33.102	049		3.3.1	R99	Authentication failure reporting	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	050		3.3.1	R99	Refinement of Cipher key and integrity key lifetime	approved	F	3.4.0	Security Architecture	S3
SP-000046	33.102	051	1	3.3.1	R99	Conversion function c3 at USIM	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	052	1	3.3.1	R99	Trigger points of AFR during AKA	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	053	1	3.3.1	R99	Removal of EUIC from 'Authentication Data Request' procedure	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	054	1	3.3.1	R99	Clarification of the scope	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	055		3.3.1	R99	SQN Generation Requirements	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	056	1	3.3.1	R99	Identification of temporary identities	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	057		3.3.1	R99	Cipher key and integrity key selection	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	058	1	3.3.1	R99	Clarification on ciphering and integrity mode setting	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	059		3.3.1	R99	Clarification on when integrity protection is started	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	061	1	3.3.1	R99	Unsuccessful integrity check	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	062	1	3.3.1	R99	Clarification on signalling messages to be integrity protected	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	063	1	3.3.1	R99	Clarification of the HFN handling	approved	F	3.4.0	Security Architecture	S3
SP-000077	33.102	064	2	3.3.1	R99	Distribution and Use of Authentication Data between VLRs/SGSNs	approved	F	3.4.0	Security Architecture	S3
SP-000077	33.102	066	1	3.3.1	R99	Ciphering	approved	C	3.4.0	Security Architecture	S3
SP-000077	33.102	067	1	3.3.1	R99	Data integrity	approved	C	3.4.0	Security Architecture	S3
SP-000112	33.102	071	1	3.3.1	R99	Use of default IK at emergency call with no (U)SIM or when authentication has failed	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	072		3.3.1	R99	Clarification on ciphering and integrity protection at intersystem handover	approved	F	3.4.0	Security Architecture	S3
SP-000044	33.102	073	1	3.3.1	R99	MAP Security	withdrawn?	D		Security Architecture	S3
SP-000112	33.102	074		3.3.1	R99	Clarification about CK and IK which are transmitted in clear over the Iu-interface	approved	B	3.4.0	Security Architecture	S3
SP-000112	33.102	076		3.3.1	R99	Cipher key and integrity key lifetime	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	077		3.3.1	R99	Cipher key and integrity key setting	approved	F	3.4.0	Security Architecture	S3
SP-000112	33.102	079	1	3.3.1	R99	Local Authenication and connection establishment	approved	C	3.4.0	Security Architecture	S3
SP-000075	33.103	005	2	3.1.0	R99	Refinement EUIC (according to TS 33.102)	withdrawn?	F		Security Integration Guidelines	S3
SP-000047	33.103	006		3.1.0	R99	Alignment of integration Guidelines with Security Architecture at S3#10	approved	F	3.2.0	Security Integration Guidelines	S3
SP-000048	33.105	006		3.2.0	R99	Authentication and key agreement	approved	F	3.3.0	Cryptographic Algorithm requirements	S3
SP-000048	33.105	007		3.2.0	R99	Editorial changes to Terminology	approved	F	3.3.0	Cryptographic Algorithm requirements	S3
SP-000075	33.105	008		3.2.0	R99	Refinement of EUIC for consistency with 33.102	withdrawn?	F		Cryptographic Algorithm requirements	S3
SP-000048	33.105	009		3.2.0	R99	Ciphering	approved	C	3.3.0	Cryptographic Algorithm requirements	S3
SP-000048	33.105	010		3.2.0	R99	Data integrity	approved	D	3.3.0	Cryptographic Algorithm requirements	S3

Annex G: Status of CRs to GSM Specifications after SA #7 meeting

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
SP-000060	02.07	A026		6.1.0	R97	Support of encryption in GPRS mobile stations	approved	A	6.2.0	Mobile Station (MS) Features	S1
SP-000060	02.07	A027		7.1.0	R98	Support of encryption in GPRS mobile stations	approved	A	7.2.0	Mobile Station (MS) Features	S1
SP-000059	02.60	A025		7.2.0	R98	Corrections on Point-To-Point Octet Stream Service	approved	F	7.3.0	General Packet Radio Service Stage 1 Description	S1
SP-000061	02.66	A001		7.0.1	R98	PCS-1900 Service Provider Number Portability impacts for Mobile Number Portability	approved	B	7.1.0	Support of Mobile Number Portability (MNP); Service description; Stage 1	S1
NP-000076	03.03	A038		7.3.1	R98	Modification of section 6.2 to enhance IMEI security	revised	C		Numbering, Addressing and Identification	N2
NP-000178	03.03	A038	1	7.3.1	R98	Modification of section 6.2 to enhance IMEI security	approved	C	7.4.0	Numbering, Addressing and Identification	N2
NP-000076	03.03	A039		6.4.1	R97	Modification of section 6.2 to enhance IMEI security	revised	C		Numbering, Addressing and Identification	N2
NP-000177	03.03	A039	1	6.4.1	R97	Modification of section 6.2 to enhance IMEI security	approved	C	6.5.0	Numbering, Addressing and Identification	N2
NP-000076	03.03	A040		5.2.0	R96	Modification of section 6.2 to enhance IMEI security	revised	C		Numbering, Addressing and Identification	N2
NP-000176	03.03	A040	1	5.2.0	R96	Modification of section 6.2 to enhance IMEI security	approved	C	5.3.0	Numbering, Addressing and Identification	N2
NP-000076	03.03	A041		4.9.0	Ph2	Modification of section 6.2 to enhance IMEI security	revised	C		Numbering, Addressing and Identification	N2
NP-000175	03.03	A041	1	4.9.0	Ph2	Modification of section 6.2 to enhance IMEI security	approved	C	4.10.0	Numbering, Addressing and Identification	N2
NP-000078	03.08	A030		7.2.0	R98	Correction of LSA Information	approved	F	7.3.0	Organization of Subscriber Data	N2
NP-000067	03.08	A031	1	6.3.0	R97	Addition of PDP Context Identifier	approved	F	6.4.0	Organization of Subscriber Data	N2
NP-000067	03.08	A032	1	7.2.0	R98	Addition of PDP Context Identifier	approved	A	7.3.0	Organization of Subscriber Data	N2
NP-000078	03.16	A040		7.2.0	R98	Correction of LSA Information	approved	F	7.3.0	Subscriber Data Management	N2
NP-000064	03.18	A057		6.5.0	R97	Correction of CF notification	approved	F	6.6.0	Basic Call Handling	N2
NP-000064	03.18	A058		7.2.0	R98	Correction of CF notification	approved	A	7.3.0	Basic Call Handling	N2
TP-000023	03.41	A060		7.2.0	R98	Addition of LCS message identifier to support GPS Navigation message	approved	B	7.3.0	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	T2
TP-000023	03.57	A002	1	7.1.0	R98	Chapter 8 restructuring (Corrections MExE release 98, chapter 8)	approved	F	7.2.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	T2
TP-000023	03.57	A003		7.1.0	R98	Corrections to WAP chapters	approved	F	7.2.0	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	T2

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SP-000086	03.60	A183		7.3.0	R98	Removal of the description of the cell reselection algorithm	approved	F	7.4.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	03.60	A184		6.6.0	R97	Removal of the description of the cell reselection algorithm	approved	F	6.7.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-000086	03.60	A185		7.3.0	R98	Extension of Maximum N-PDU size in case of PDP type = PPP	approved	F	7.4.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
NP-000072	03.66	A014	2	7.2.0	R98	Results of Public Enquiry 9953	approved	D	7.3.0	Support of GSM Mobile Number Portability (MNP) stage 2	N2
	03.67	A004		6.0.0	R97	Cause pre-emption removed from HOLD message.		F	6.1.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	NS
	03.67	A005		7.0.0	R98	Cause pre-emption removed from HOLD message.		A	7.1.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	NS
NP-000089	03.68	A014		6.1.0	R97	VGCS Signalling Flows	approved	F	6.2.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.68	A015		6.1.0	R97	Data Flow for Fast Call setup	approved	F	6.2.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.68	A016		7.0.0	R98	VGCS Signalling Flows	approved	A	7.1.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.68	A017		8.0.0	R99	VGCS Signalling Flows	approved	A	8.1.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.68	A018		7.0.0	R98	Data Flow for Fast Call setup	approved	A	7.1.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.68	A019		8.0.0	R99	Data Flow for Fast Call setup	approved	A	8.1.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000167	03.68	A020		6.1.0	R97	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	approved	F	6.2.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000167	03.68	A021		7.1.0	R98	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	approved	A	7.2.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000167	03.68	A022		8.0.0	R99	Recommendation to use DTMF tones for VGCS talking subscriber downlink un-muting	approved	A	8.1.0	Voice Group Call Service (VGCS) - Stage 2	N1
NP-000089	03.69	A013		6.1.0	R97	Data Flow for Fast Call setup	approved	F	6.2.0	Voice Broadcast service (VBS) - Stage 2	N1
NP-000089	03.69	A014		7.0.0	R98	Data Flow for Fast Call setup	approved	A	7.1.0	Voice Broadcast service (VBS) - Stage 2	N1
NP-000089	03.69	A015		8.0.0	R99	Data Flow for Fast Call setup	approved	A	8.1.0	Voice Broadcast service (VBS) - Stage 2	N1
NP-000064	03.79	A024		6.2.0	R97	Correction of CF notification	approved	F	6.3.0	Support of Optimal Routing phase 1 (stage 2)	N2
NP-000064	03.79	A025		7.2.0	R98	Correction of CF notification	approved	A	7.3.0	Support of Optimal Routing phase 1 (stage 2)	N2
NP-000089	04.08	A1001		6.8.0	R97	Addition of cause value #25 'Pre-emption'	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A1003		6.8.0	R97	GPRS detach type corrections	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1

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NP-000089	04.08	A1005		7.5.0	R98	Addition of cause value #25 'Pre-emption'	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A1007		7.5.0	R98	GPRS detach type corrections	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000130	04.08	A1009		5.14.0	R96	Moving NOTIFICATION RESPONSE from MM to GSM RR	approved	F	5.15.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000130	04.08	A1011		6.8.0	R97	Moving NOTIFICATION RESPONSE from MM to GSM RR	approved	A	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000130	04.08	A1013		7.5.0	R98	Moving NOTIFICATION RESPONSE from MM to GSM RR	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000097	04.08	A947	2	5.14.0	R96	Clarification of NITZ time stamp coding	approved	F	5.15.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000097	04.08	A949	1	6.8.0	R97	Clarification of NITZ time stamp coding	approved	A	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000097	04.08	A951	1	7.5.0	R98	Clarification of NITZ time stamp coding	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A953		6.8.0	R97	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A955		7.5.0	R98	Removal of APN from REQUEST PDP CONTEXT ACTIVATION REJECT message	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A957	2	6.8.0	R97	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A959	1	7.5.0	R98	Correction of N-PDU IE Length in GMM messages Routing Area Update Accept and Routing Area Update Complete.	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A961	2	6.8.0	R97	Usage of Combined Procedures during CM service reject	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A963	1	7.5.0	R98	Usage of Combined Procedures during CM service reject	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A973	1	6.8.0	R97	Clarification to the MS handling when receiving detach type 'IMSI detach'	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000091	04.08	A975	1	7.5.0	R98	Clarification to the MS handling when receiving detach type 'IMSI detach'	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000094	04.08	A985		6.8.0	R97	Explanation of octets in MS Classmark 1 IE (R97)	approved	F	6.9.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000094	04.08	A987		7.5.0	R98	Explanation of octets in MS Classmark 1 IE (R98)	approved	A	7.6.0	Mobile Radio Interface - Layer 3 Specification	N1
NP-000089	04.68	A021		5.4.1	R96	Addition of cause values	approved	F	5.5.0	Group Call Control (GCC) Protocol	N1
NP-000089	04.68	A022		6.2.0	R97	Addition of cause values	approved	A	6.3.0	Group Call Control (GCC) Protocol	N1
NP-000089	04.68	A023		7.1.0	R98	Addition of cause values	approved	A	7.2.0	Group Call Control (GCC) Protocol	N1
NP-000089	04.68	A024		8.0.0	R99	Addition of cause values	approved	A	8.1.0	Group Call Control (GCC) Protocol	N1
NP-000089	04.69	A018		5.4.0	R96	Addition of cause values	approved	F	5.5.0	Broadcast Call Control (BCC) protocol	N1
NP-000089	04.69	A019		6.2.0	R97	Addition of cause values	approved	A	6.3.0	Broadcast Call Control (BCC) protocol	N1

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NP-000089	04.69	A020		7.1.0	R98	Addition of cause values	approved	A	7.2.0	Broadcast Call Control (BCC) protocol	N1
NP-000089	04.69	A021		8.0.0	R99	Addition of cause values	approved	A	8.1.0	Broadcast Call Control (BCC) protocol	N1
NP-000027	04.80	A016	1	7.1.0	R98	Correction to Location Notification Type and LCS-MOLR errors		F	7.2.0	Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding	NS
SP-000025	06.73	A021		7.3.0	R98	Avoidance of pulse cancellation in FCB excitation	approved	F	7.4.0	ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec	S4
SP-000025	06.75	A002		7.1.0	R98	Threshold and Hysteresis for Exp. 4a and 4b	approved	D	7.2.0	AMR performan characterisation	S4
SP-000025	06.75	A003		7.1.0	R98	Introduction of Annex D (AMR Performances as a function of FER/RBER)	approved	D	7.2.0	AMR performan characterisation	S4
SP-000026	08.62	A002	1	7.0.0	R98	TFO Message Extensibility	approved	C	7.1.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	S4
NP-000078	09.02	A281		7.3.1	R98	Correction of LSA Information	approved	F	7.4.0	Mobile Application Part (MAP) Specification	N2
NP-000071	09.02	A282		7.3.1	R98	Correction of SS codes for LCS	approved	F	7.4.0	Mobile Application Part (MAP) Specification	N2
NP-000063	09.02	A283		6.6.1	R97	Priorisation of MAP application context related to VGCS/VBS	approved	F	6.7.0	Mobile Application Part (MAP) Specification	N2
NP-000063	09.02	A284		7.3.1	R98	Priorisation of MAP application context related to VGCS/VBS	approved	A	7.4.0	Mobile Application Part (MAP) Specification	N2
NP-000071	09.02	A285		7.3.1	R98	Privacy notification/verification for call related privacy class	approved	A	7.4.0	Mobile Application Part (MAP) Specification	N2
NP-000091	09.18	A043		6.5.0	R97	Correction of Gs Cause	approved	F	6.6.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1
NP-000091	09.18	A044		7.2.0	R98	Correction of Gs Cause	approved	F	7.3.0	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1
NP-000067	09.60	A080		6.6.0	R97	Clarification of Repeated Information Element Ordering	approved	D	6.7.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	N2
NP-000067	09.60	A081		7.3.0	R98	Clarification of Repeated Information Element Ordering	approved	D	7.3.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	N2

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NO-000074	09.60	A082	2	7.3.0	R98	Use of 3 Digit MNCs in GTP for R'98	approved	F	7.3.0	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	N2
SP-000017	12.15	A018		7.4.0	R98	IP v6 support GTP'	approved	F	7.5.0	General Packet Radio Service (GPRS); GPRS Charging	S5
SP-000017	12.15	A019	1	7.4.0	R98	GTP' header length fix	rejected	F		General Packet Radio Service (GPRS); GPRS Charging	S5