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Title: **Report of TSG SA meeting #12, version 1.0.0**

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Contents

1 Opening of the meeting

The Chairman, Niels Peter Skov Andersen, welcomed delegates to the 12th meeting of 3GPP TSGs, and Torbjörn Nilsson, Senior Vice President, Marketing and strategic Business Development gave an introductory speech on behalf of the meeting hosts, Ericsson. TSG SA was then wished a successful meeting.

2 Approval of the Agenda

The Chairman, Mr. Niels Peter Skov Andersen opened the meeting and introduced the draft agenda, provided in TD SP-010220 which was approved without change.

The Chairman reminded delegates of the need to declare any essential Intellectual Property Rights (IPRs) that they may hold, related to the work programme and systems of 3GPP and the technical discussions at the meetings, to their respective Partner SDO.

3 Approval of the meeting report of TSG-SA Meeting # 11

TD SP-010221 The report of the last meeting was approved without change.

4 Items for immediate consideration

TD SP-010295 This was introduced by BT and provided a high-level analysis of the current Releases of 3GPP Specifications and proposed a framework for planning future releases. This was considered in conjunction with TD SP-010296.

TD SP-010296 This was introduced by BT and makes some specific proposals for the content and timing of releases beyond Release 5, i.e. Releases 6 and 7.

The initiative of the document was welcomed, but it was commented that we should be careful not to fix content and timescales of future Releases too soon. It was thought that the work plan development should be decoupled as much as possible from the decisions on the Releases, as it should be a tool to predict the timing of the chosen Features to be included in a Release. It was noted that there was a planned Workshop in October 2001 to discuss the Release planning, and this could be used as material. The Chairman stated that care should be taken not to postpone too many decisions to the Workshop, as it would need to be focussed on its scope. These contributions were then noted. The topic was further discussed under agenda item 8.1.

5 Reports from TSG SA ad-hoc meetings

TD SP-010355 Draft Report of the GTT Workshop. This report was provided for information and was noted.

6 Letters / Reports from other groups

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

TD SP-010223 This was introduced by Stephen Hayes, TSG CN Chairman and asked TSG SA to provide direct guidance to the 3GPP WGs involved how to proceed in this matter. From a CN WG4 perspective, a solution is required to fulfil the requirements for TrFO. CN WG4 had a strong preference that RAN WG3 complete the required standardization tasks. The TSG RAN Chairman reported that they were awaiting the production of CRs on this, and would decide on which Release it can be included in when there is a better overview of the amount of work involved (to decide whether this should be in Release 4 or Release 5). The consequences of postponing this work to Release 5 were that the TrFO would need to drop back for Location Services. It was also reported that the work was expected to be completed at TSG RAN#13. TSG SA noted the report of activities in TSG RAN and requested a report on progress, solutions and consequences at the next meeting.

TD SP-010227 This was introduced by the GERAN Chairman, and requests some clarification of terminology. The terms *3G* and *Iu mode* are common for both RANs and in certain occasions their applicability may need to be restricted to one RAN; in those cases the combinations of terms ***GERAN Iu mode*** and ***UTRAN Iu mode*** should be used. Similarly, the terms ***A/Gb mode*** and ***GERAN Iu mode*** can be used to discriminate between the different modes within the *GERAN*.

The LS had also been presented to TSG T and although TSG T agreed with the document, it was thought to be too detailed for the other WGs. Therefore a summary of the definitions was requested to be produced for the WGs. TSG RAN and TSG CN both had forwarded this to their WGs.

It was agreed that this contribution would be forwarded to the TSG SA WGs and the definitions should be considered for inclusion in TR 21.905.

Action: Secretary to send TD SP-010227 to TSG SA WGs.

TD SP-010298 This contribution proposed a consistent handling of allocation of CR numbers at WG meetings, which was done inconsistently at present. After some discussion it was agreed that the principle should be used in all SA WGs, but that **the lack of a CR number on a document at a WG meeting should not prevent a CR from being agreed by the WG**. All CR numbers and revisions allocated shall be included in the CR database by MCC. Other TSGs were asked to consider reaching a consistent method of handling this in their WGs.

TD SP-010351 This was introduced by the CN Chairman and it was noted that the SDOs are responsible for handling the release listings, and the choice of reference versions. 3GPP should provide accurate information in order to facilitate this. The specification status database and resulting lists in TS 21.101 therefore needs to be kept accurately up to date. This was therefore noted and the contribution will be send to the SDOs. Errors noted in the list and therefore in the database need to be corrected before providing the lists from this meeting.

TD SP-010222 It was noted that the CN WG4 and SA WG5 co-operation appeared to be successful and that there were no specific issues raised to TSG SA. The contribution was therefore noted.

6.2 Partners and their bodies

TD SP-010344 This report was presented by the TSG SA Chairman and the main issues dealt with at the meeting were highlighted. Open discussion at the OP meeting was reported as being more efficient than providing Liaison Statements on TSG issues. This report was then noted.

TD SP-010345 This report was presented by the TSG SA Chairman and the main issues dealt with at the meeting were highlighted. This report was then noted.

TD SP-010299 This was presented by the TSG SA Chairman. ETSI SPAN 11 requested advice on questions concerning Mobile Virtual Network Operators (MVNOs) in order to improve its own understanding of possible market structures involving mobile virtual network operators, and the numbering, addressing and routing implications of these market structures, and to incorporate it into work being progressed about the possible use of 3-digit MNCs within European countries.

The TSG CN Chairman reported that they had provided a response in their document TD NP-010350 and that they considered this to be mainly a commercial/market issue. After some discussion it was agreed that this should be forwarded to SA WG1 for consideration and response to ETSI SPAN 11. **Expertise from the CN and RAN areas was also recognised as required and their input was requested.**

TD SP-010297 LS from GSM Association on M-Services Initiative. This was presented by Orange, and informed TSG SA that the GSM Association had just announced the creation of the Mobile Services Initiative (M-Services), intended to promote growth in the use of mobile data services and GPRS. The GSM Association Permanent document AA35 was attached " M-Services Guidelines". The purpose of the document is to define a set of new services that have been selected as fundamental from the GSM Association and to make clear choices on services and features when there is no existing standard. It was asked whether this was intended to prevent the introduction of I-mode in Europe, and this was denied. It was also stated that this is only one proposal for mobile services. The Chairman asked that political issues are not raised at the TSG SA meeting, but that technical issues should be discussed, and asked whether backwards compatibility had been considered by the GSM Association. It was reported that the document includes the considerations of backward compatibility. Support was expressed for the initiative and the impact on standardisation was discussed. The services were considered to be access technology independent, and the WAP Forum were suggested as the correct body for elaboration of these services. 3GPP need to take care that they do not automatically review all documents provided to them, but that the Members themselves should do this and provide technical contributions to the 3GPP WGs. Interested 3GPP Member companies were asked to review the document for the impacts on 3GPP work and backwards compatibility issues, providing input to relevant WGs where appropriate. The contribution was noted. It was noted that there were some concerns on the standardisation and usage of the work, and that Members should investigate any impacts on the work of 3GPP and contribute to relevant WGs.

Mr. Holley commented that there was some confusion in the community about where standards work should take place and in particular it could be seen from some of the comments that people were thinking that all of the M-Services work is related to the WAP Forum, whereas in his opinion it was not clear whether the majority of the community believed that items like transfer of ring tones should be done in the WAP Forum or 3GPP (or not standardised at all). The TSG SA Chairman commented that the important thing was to identify the requirements for work and bring this in for standardisation. Mr. Holley commented that this was the core issue - some requirements in this area are taken into the WAP forum and others are taken into 3GPP without a necessarily logical split. The TSG SA Chairman summarised that the this type of work can always be contributed to 3GPP, and it may be that it will then be concluded that the work is either inside or outside the scope of our work, but that if the contribution is not made to 3GPP, then this will never be known, so therefore it is better to make the contribution into 3GPP. The liaison was then noted.

6.3 Others

TD SP-010318 IETF/3GPP report. This was presented by Ileana Leuca, AT&T Wireless, the 3GPP-IETF Liaison Rapporteur. The report highlights the main areas of collaboration, the results of the last three months and also some recommendations derived from this experience. The following Recommendations were provided:

1. 3GPP individual members are encouraged to be active within the IETF via mailing lists and participate in the various studies and answering the various questions posed by the IETF ADs. For important drafts (e.g. 2543bis) we should start to assign people to read-proof sections and read the entire document(s) and verify that their current organization needs no major changes.
2. We will continue to solicit help from IETF to accelerate the standardization process in the areas were strong 3GPP Release 5 project plan exists (i.e. transport - SIP)
3. Proactively, I will continue the periodic dialogue with ADs and build the awareness of the areas of importance for Release 4/5 fulfilment (e.g. SIP, QoS, Ipv6).
4. Understand the scope of some new IETF efforts and their relation with relevant areas to 3GPP (e.g. presence services and SIP, IPv6, local area):
   - Presence and Instant Messaging Protocol (prim) group defines a protocol compliant with CPIM (Common Profile for Instant Messaging)
   - SIP for Instant Messaging and Presence Leveraging Extensions (SIMPLE) group investigates the ongoing work towards the standardization of SIP for presence as a transfer protocol supported within the CPIM framework
   - Site Multihoming in Ipv6 - the group aims is to discuss the multihoming approach.

IETF document 3113 was reported as a draft that should be considered. The IETF WG design team was also reported as a group in which 3GPP should monitor.

The report was then noted. 3GPP Members were encouraged to stay involved in the work of the IETF in order to ensure that 3GPP requirements are included.

TD SP-010352 Report from IPNG WG Interim Meeting May 30 – June 1, 2001. This was presented by Nokia for information and reports that *the meeting was a success in every aspect. People in the Interim-Meeting were genuinely interested and the atmosphere was one of good cooperation. Hopefully, the 3GPP presentation gave the IPNG WG good knowledge of UMTS packet architecture and a good basis for future cooperation*. Ms. Leuca requested that the results should be provided to "us"??? and that duplicate work in the IETF should be avoided. BT suggested that 3GPP should determine the impact of each option upon our work, if they were chosen, in order to gain an understanding of the best set of options to select from the IETF documents. Nokia responded that this was mainly a transport issue and the selection of options is mainly a business decision. The TSG CN Chairman suggested that as this is largely a deployment issue, that some of the MRPs may be best suited to carrying out a study. The TSG RAN Chairman requested that this is fully co-ordinated as there are impacts on the RAN on the choice of IPv6/IPv4.

The Chairman summarised that the level of limitation that the options that we use need to be identified, and how much is required for inter-operability. Members and relevant Groups should check this and contribute appropriately. The report was then noted.

TD SP-010294 Report from the UMTS Forum: Workshop on Assessing the Requirements for Deploying 3G Services. This report was presented by Andy Watson, UMTS Forum Rapporteur. The task set for the workshop, between SDOs and MRPs, was to establish that all the necessary standards (Features, Building Blocks and Work Items) will be available in order that the forecasted services can be deployed to meet market requirements. Many issues and items, which require significant further action, were identified and recorded in the documentation.

Recommendations to which comment was made during the meeting:

> *To request that SA WG4 examine whether the current 3GPP default speech coders are compatible with voice recognition systems*.
> **The SA WG4 Chairman agreed to check with his group on the compatibility issues and report back to TSG SA#13. It was reported that the ETSI TC STQ "Aurora Project" may also be able to provide information on this subject.**
>
> *To request that SA2 investigate whether the network architecture needs to take store and forward of non real time streamed multimedia. SA WG4 may need to advise on the quantity of data which*

requires to be stored.
It was suggested that the question are submitted directly to SA WG2 and SA WG4 as a LS from the UMTS Forum.

Whether facilities for "negative charging" need to be devised. To be considered in the first instance by GSM Association. If required, then needs to be considered by SA WG5 and SA WG2.
There is a need to specify a charging API, which allows Network Operators to exchange information with external Service Providers so that the SP or the NO can provide a combined bill to the customer. A study group (Ad-Hoc) probably needs to be set up to look into this. Would comprise SA5 and SA2 members.
It was considered that this should involve SA WG1 to set the requirements in conjunction with other service requirements. It was considered essential to follow up this topic in order to ensure that systems are in place for use by Operators.

Improving the success rate of initial transactions for IP multimedia sessions is and one aspect to be considered to improve it is for the UE and CN to know in advance the capability of the AN. The problem is to identify the earliest time at which the limitations of the AN can be identified to limit the abortive signalling. This has already been recognised by TSG RAN who are already working on it. CN and SA2 now need to be involved.
This was already in progress.

Transition issues: one of the key problems concerns the cohabitation of IPv6 entities with IPv4 ones. To be investigated by TSG CN
This was already in progress.

To request SA5 (SA2, SA1) to look at a common concept for third party billing and to develop a generic interface (covering on-line/pre-paid, event charging, successful invocation of service etc.). This should be a joint effort, including GSMA, European Billing, IPDR. To request SA WG1 for clear definition of on-line billing and pre-paid.
SA WG1 can do this after consideration by the other identified groups.

On-line trading end-to-end is transparent to the network and it would appear that there is no additional requirement.
GSMA issue.

Additional APIs probably need to be defined. For example between what entities? Currently there are some specific APIs under progress, e.g. for LCS. 3GPP should take into account progress of Parlay, because Parlay group is ahead of 3GPP. While addressing OSA in CN WG5 they should try to reflect Parlay and keep close contacts.
The CN WG5 specifications are based upon PARLAY work, and there is therefore good co-ordination and the issue is covered.

There is the question what security issues 3GPP does cover and whether additional requirements or techniques provided by other bodies (such as IETF) need to be taken into account. SA WG1 is invited to consider the security issues while running the service requirements analysis. It is understood that SA WG3 has done a good work in this area and there are no obvious issues left out.
SA WG1 were asked to look at the security requirements as part of their service analysis.

Current E.164 concept assumes that only authorised parties can handle addresses and there is no fraud possible. As soon address translation becomes necessary nobody can guarantee for the correct address etc. This is more a generic issue, not just one of the mobile world. To invite SA WG3 to study the matter jointly with TIPHON.
The concluded insecurity with address translation was questioned, as they exist today and are not considered a security issue.

There is a need to categorise the issues concerning End user privacy and regulatory requirements. The information to be provided needs to be considered. To invite GSMA L&R to gather regulatory requirements as a permanent task and to submit it to SA WG1 and SA WG3. In GSM there is simple CLI service and CLIR for privacy. What is the respective means for LCS? Also applies to Instant Messaging - who is allowed to put you on somebody's "buddy"-list?
SA WG1 have considered the privacy issues and it is considered to be covered.

Instant Messaging - how to provide this for 3G - very popular in the fixed internet. SA WG1 should consider Instant Messaging (excluding presence).
The problem of proprietary standards for this in the internet environment is a problem and co-operation with the IETF was suggested as a good start.

Requirements for multiple active subscriptions. SA WG1 to be invited to consider for example multiple active USIMs multiple IMSI etc. Also consider receipt of calls/messages etc. destined for inactive subscriptions when another subscription used by the same user is active.
It is necessary to be clear on the service requirements, the underlying system and the user perception of multiple subscriptions. SA WG1 should only study this if there is a clear new service requirement contributed to SA WG1.

The report was considered to be too high-level for discussion in the working groups directly, and Member companies were asked to make detailed contribution of items, that are of interest and relevance, to the appropriate WGs, so that detailed discussion can take place. The report was then noted by TSG SA.

TD SP-010377 LS on GPRS issues. This LS was contributed by the GSM Association TWG and was presented by Mr. Sampson. The TSG GERAN Chairman reported that this had been considered at the last GERAN meeting, and there had been some objection because of incompatibility of existing MSs with the PBCCH service. TSG GERAN had therefore rejected the proposal. Motorola stated that they did not find the proposal acceptable, as there are existing simulators supporting the functionality and many tests in TS 51.010, and added their support to the problem identified in the second point in the liaison (*Deploy terminals which have a partially verified implementation of some of these features which will also result in the upgrade/replacement a large number of terminals as the complete set of features are added to the network*). This was supported by the TSG RAN Chairman. It was also asked whether it is worth implementing a function when there are no mobiles on the market which can support it. The LS was then noted.

The TSG SA Chairman opened a debate on how such situations can be avoided in 3GPP in the future. It was suggested that a common test platform(s) would help prevent such issues, but so far there was no work on this in 3GPP. There was a question on the use of TTCN 3, as this was understood to provide a common test set for manufacturers. It was commented that care should be taken in making the feature mandatory, as this could delay implementation. After some discussion, it was recommended that the TSGs and WGs try to minimise the number of options in the system, by trying to obtain consensus on proposals, and trying not to fall back on allowing options when no consensus can be reached. The implementation of this recommendation relies upon the co-operation of the participants in the 3GPP meetings, and would benefit all Members by reducing delay and compatibility issues.

TD SP-010394 Hand over scenario's between 2G and 3G networks. This LS was contributed by the GSM Association TWG and was presented by Mr. Sampson. BARG asked some questions to help them understand the impact of the following scenarios on the charging for services: CS between two networks, PS between two networks using HGGSN and PS between two networks using VGGSN.

The TSG SA Chairman explained that checking of roaming rights would take so long that it would effectively prevent roaming. It was identified that the agreements between operators would be required for the introduction of charging mechanisms, etc.

After much discussion, Mr. Sampson agreed to draft some text in reply to GSM-Association SERG summarising the conclusions reached during the discussion and relay the information to the GSM Association.

7 Reports from TSG-SA Working Groups

7.1 TSG-SA WG1

7.1.1 Report from TSG-SA WG1 and review of progress

TD SP-010241 The SA WG1 Chairman presented his report, using TD SP-010240 (presentation slides) to TSG SA#12 on activities and progress in SA WG1 since the last TSG SA meeting.

The 3-digit MNC investigation was questioned (slide 7), it was reported that the request had been to investigate the feasibility of the introduction of 3-digit MNCs. SA WG1 had sent a response Liaison pointing out the difficulties of this.

Voice Group for UMTS was clarified to apply only to GERAN, and not UMTS, at least in the short term, as it is very dependent on the details of the radio interface. SA WG1 therefore do not have a service requirement for Voice Group in UMTS.

GPRS Operator Preferences. SA WG1 asked companies to contribute to this service requirement at the right level for the development of a service requirement. When the requirements have been developed by SA WG1 and/or SA WG2, T WG3 can be asked to begin work on including it in their specifications. It was clarified that this issue was that in some scenarios, an operator may run out of IP addresses, so the network operator would have the option to disconnect some users to free up IP addresses. This needs to be managed in a structured way in order to provide the best solution. This is not related to roaming cases.

IMS Charging (slide 5). The need for joint meetings between SA WG1, SA WG2 and SA WG5 was raised. This was also discussed under agenda item 7.2 and it was agreed that joint meetings on IMS Charging was a good idea. ***It was noted that a request for contributions on this should be provided by delegates to the relevant groups.***

The actions for TSG SA were included in the slides and were dealt with under agenda items 7.1.2 and 7.1.3. The report was noted and the SA WG1 Chairman thanked for his report.

7.1.2 Questions for advice from TSG-SA WG1

TD SP-010229 This LS, regarding User Profile. This LS suggests to start a cross WG ad-hoc to solve the problems of defining User Profile. and that interested companies co-ordinate internally and send their experts within the User Profile area to keep the attendance to a fairly low number. SA WG1 suggests that a first meeting will take place in June 2001. The idea was endorsed by TSG SA and the LS was noted.

TD SP-010359 IP Based Multimedia Services Framework TS 22.941, Version 0.2.4. This TS was provided for early information and was noted by TSG SA. It was noted that this was a very early draft and needs substantial work. All comments would be welcomed by SA WG1.

TD SP-010293 Wideband AMR Policy. This LS was provided and presented by Vodafone and asked what consideration has been made on the use of the Wideband AMR, taking into account that the user may wish to choose the AMR depending on the local environment and the target services (either manually or automatically). It suggests that the detailed requirements for this feature should be considered by SA WG1 and passed on to SA WG2. Advice from RAN and GERAN should also be sought on the impacts of changing of AMR in borderline coverage areas. The contribution was noted and interested companies were asked to provide input to SA WG1 in order that the service requirements can be defined in good time.

TD SP-010346 Requirements for Emergency Calls in IMS. This contribution was provided and presented by Vodafone and reported a lack of clarity on how Emergency Calls will be handled in IMS and proposed how this should be handled. It was suggested that this contribution should be provided to SA WG1 directly, and interested parties were encouraged to provide contribution to the WGs in order to complete this work. The contribution was then noted.

7.1.3 Approval of contributions from TSG-SA WG1

CRs:

TD SP-010242 CRs on to 22.003 and 22.100 on Fax for R99. There was objection to the removal of facsimile text in TS 22.100. It was agreed that 22.100 CR030 would be rejected and Siemens asked to contribute to this in SA WG1. 22.003 CR005 was approved and 22.100 CR030 was rejected.

TD SP-010243 CRs to 22.003 on Removal of Voice Group Service for R99 and Rel-4. These CRs were approved.

TD SP-010244 CRs to 22.011 R99 and Rel-4 on Background Scanning, Partial PLMN Access and Periodic Network selection. These CRs were approved.

TD SP-010245 CR to 22.129 Rel-4 on Inter PLMN handover. This CR was approved.

TD SP-010246 Various CRs to 22.228 Rel-5 on IMS. These CRs were approved.

TD SP-010247 CR TS 22.121 Rel-5 to update Release 5 TS. This CR was approved.

TD SP-010248 Various CRs to 22.127 Rel-4 and Rel-5. These CRs were approved.

TD SP-010249 CRs to 22.078 R99 and Rel-4 on Clarification of PDP context QoS change notification to the CSE (CAMEL3). It was noted that there were no corresponding CRs to Rel-5 on this as the functionality was removed from Rel-5. These CRs were approved. CR103 was recognised as a **Category A** CR.

TD SP-010250 CRs to 22.078 R99, Rel-4 and Rel-5 on "Clarification of CUG requirements". These CRs were approved.

TD SP-010251 Various CRs to 22.078 Rel-5 (CAMEL Phase 4). CR107 was questioned concerning the SUSPEND operation causing delay of the handover. It was clarified that the call handling would run independently, as it is on the lower layer and should not cause any additional delay to the call handling. It was suggested that this CR is approved and details provided to the relevant WGs on implementation issues for these requirements. If any problems are discovered, then this requirement can be modified later. These CRs were approved.

TD SP-010252 CR to 22.101 on Re-introduction of Service Provider Name Indication in Release 99. The debate on implementing this in Release 1999 differently than in Rel-4 was questioned. There had been much

debate in SA WG1 and it was agreed that no substantial changes were wanted for Release 1999 and more user-friendly system for Rel-4 (see TD SP-010253). This CR was approved.

TD SP-010253 CRs to 22.101 Rel-4 and Rel-5 on Clarification of PLMN Name Indication and Service Provider Name Indication feature. It was noted that TSG T had approved some CRs in this area, and alignment with these was checked and reported as OK. It was noted that the hiding the roaming indication from the user was not addressed by this CR, but also it did not change the current situation It was, however, possible to hide the country in the revised text. These CRs were approved.

TD SP-010254 CR to 22.101 Rel-4 on Removal of Service Provider Name graphic format from Rel-4. This CR was approved.

TD SP-010255 CRs to 22.101 Rel-4 and Rel-5 on Addition of a Streaming paragraph. These CRs were approved.

TD SP-010256 CRs to 21.905 Rel-4 on Vocabulary. These CRs were approved. The RAN Chairman explained that 21.905 is to be submitted to ITU-R WP8F for referencing, **it was requested that the equivalent Release 1999 CRs are provided for the next meeting.**

TD SP-010257 CR to 22.002 Rel-4 on Corrections to erroneous CRs SP-010039 and SP-010040 to 22.002. This CR was approved.

TD SP-010258 CRs to 21.905 and 22.101 on Subscription and Provisioning for Rel-5. These CRs were approved. TR 21.905 CR010 was approved as **Category B**. It was noted that this document is part of the contribution to ITU-R and editorial changes should not be made to this unnecessarily.

TD SP-010259 CR to 22.082 Rel-4 on Clarification of CPHS CFU Indication. This CR was approved as **Category F**.

TD SP-010260 CR to 22.115 Rel-5 on Introduction of online charging for prepaid services. This CR was approved.

TD SP-010261 CR to 22.038 on Indication of Key identification. This CR was approved. The Work Item Acronym for this was changed to the one for "USIM Toolkit enhancements" in the CR database.

TD SP-010262 CRs to 22.101 Rel-4 and Rel-5 on Replacement of references to 23.121 for R4 onwards. These CRs were approved.

TD SP-010263 CRs to 22.101 Rel-4 and Rel-5 on CS Multimedia fallback to speech. These CRs were approved.

TD SP-010264 CRs to 22.001, 22.105 and 22.129 on Removal of features due to deletion of the work item on “Bearer modification without pre-notification” from Rel-4. These CRs were approved.

TD SP-010369 This contribution was withdrawn.

TSs and TRs:

TD SP-010364 TS 22.141 version 1.0.0 on Presence Service for information. This was a replacement of withdrawn document TD SP-010265. The TS was noted. Working groups were asked to provide comments as quickly as possible to SA WG1 in order for them to complete the document for approval.

TD SP-010266 TS 22.226 version 2.0.0 on Global Text Telephony for approval (Rel-5). It was noted that a problem existed in sections 5.1/5.3 for use of the service without subscription, which needed correcting by further CRs in SA WG1. This TS was approved and placed under TSG SA change control as version 5.0.0 (Rel-5).

SA WG1 were asked to clarify the text for subscription by CRs. It was generally understood that the GTT service can be used by telephony users and no specific subscription is necessary.

TD SP-010267 TR 22.946 version 1.0.0 on Broadcast and Multicast Services for information. This TR was noted and SA WG1 were asked perform a review of the report and take into account any contributions received from other WG reviews received. SA WG2 were specifically asked to look at this **after the next SA WG1 meeting**, when the document should be significantly more stable. There was some discussion on the status of this document, as the current Scope and content was appropriate for a TS, rather than a TR. It was agreed that this should be a TS. **TSG SA noted the current document type as a TR, and expected it to be re-numbered as a TS before presentation to TSG SA for approval.**

WIs:

TD SP-010268 WIs for approval from SA WG1.

- Pre-pay/real-time charging in IM subsystem: It was noted that this WI was not the latest version as approved by SA WG1, although the principle of having a WI on this was agreed. This WI sheet was replaced by TD SP-010375 and was approved.
- "Enhancement of Broadcast and Introduction of Multicast". This WI description was also included in TD SP-010375 and approved.

Liaisons:

TD SP-010269 LS on Terminal Capabilities. This liaison to TSG SA and T WG2 proposes that all future terminals should be mandated to be capable, within the limitations of the terminal, to supply terminal capability information either spontaneously or on demand from the network. There was some discussion on the terminal capabilities to be mandated ensued. It was concluded that SA WG1 need to consider this and provide clear requirements before the impact of the requirements can be addressed. The LS was then noted.

7.2 TSG-SA WG2

7.2.1 Report from TSG-SA WG2 and review of progress

TD SP-010328 The SA WG2 Chairman presented his report to TSG SA#12 on activities and progress in SA WG2 since the last TSG SA meeting.

The changes to stage 2 for Release 1999 was questioned for 03.60, 23.060, 03.71 and 23.071, as they may have impact on other specifications. It was clarified that the "uncorrelated corrections" was clarified to mean that they are miscellaneous corrections, and could have impact on other groups' specifications. LSs had been sent regarding these impacts.

Issues on Release 4 were questioned for the completions of the specifications for Release 4. It was clarified that these were normal corrections to the approved Release 4 specifications (slide 12).

The IMS Charging issues were reported as being a high priority in SA WG2 and a joint meeting with SA WG5 and SA WG1 on IMS Charging had been planned.

The actions for TSG SA were included in the slides and were dealt with under agenda item 7.2.3. The report was noted and the SA WG2 Chairman thanked for his report.

7.2.2 Questions for advice from TSG-SA WG2

There were no issues raised under this agenda item.

7.2.3 Approval of contributions from TSG-SA WG2

TSs and TRs:

TD SP-010336 This provided an introductory cover page and specification TS 23.226 version 2.0.0 for approval as Rel-5. It was noted that this had not been presented for Information to TSG SA and therefore the version number should not have been raised to version 2.0.0. The impact on equipment and inter-operability was asked for section 4.1.2.7 " Routing and location of CTM detection/conversion functions". It was clarified that the interfaces need to support the signalling for all 3 options, whether used or not. It was also noted that the IETF SIP RFC needed to be referenced for TSG SA#13. This TS was approved and placed under TSG SA change control as version 5.0.0 (Rel-5).

TD SP-010337 This presented specification TS 23.207 for approval as Rel-5. The number of options were again questioned and it was explained that this also meant that all options need to be implemented for signalling. This TS was approved and placed under TSG SA change control as version 5.0.0 (Rel-5).

TD SP-010338 This presented specification TS 23.236 for information as version 1.0.0. It was reported that this was now around 50% stable. More information on the stability and open issues was requested and the SA WG2 Chairman agreed that this would be provided in future. This TS was noted for information, the version for approval was expected at TSG SA#13.

CRs:

TD SP-010329 CRs to 23.002 v4.2.0 and 5.2.0. The *consequences if not approved* description for CR052 was considered inadequate description and SA WG2 were asked to include explicit consequences in their CRs. These CRs were approved. (CR062 was approved as a **Category A** CR).

TD SP-010330 CRs to 03.60 (R97/R98) and 23.060 (R99/Rel-4). The CRs to R97 and R98 of 03.60 did not have corresponding CRs to Release1999. The SA WG2 Chairman needed to check whether this had already been corrected in Release 1999. CRs 0360A205 and 0360A206 were therefore returned to later in the meeting for further checking by the SA WG2 Chairman and addition of the corresponding R99 CRs if needed. The CRs were later checked and clarified in TD SP-010372 and were approved.

23.060, CR230 was recognised as a Category F CR, and the "*consequences if not approved*" were mis-alignment with Stage 3.

CRs 224 and 225 were questioned for their status, as it was reported that there had been some concerns raised on their completeness during their e-mail approval period. CRs 224 and 225 were therefore postponed. SA WG2 were asked to clarify the completeness of these CRs.

CRs 229, 231, 222, 223, 236, 237, 234, 221, 234 and 230 were approved (CR 230 was approved as **Category F**). CR 233 was returned to later in the meeting for SA WG2 Chairman to check on the correctness of the proposed Category. This was corrected from Category A to Category F in TD SP-010372 which was approved.

TD SP-010331 CRs to 23.107. These CRs were approved.

TD SP-010332 CRs to 23.127. These CRs were approved. CR026 was approved as **Category A**.

TD SP-010333 CRs to 23.221. This included a Category D CR005 (Editorial) to a frozen Release (Rel-4). It was agreed that this should be Category F as it removes the parts which were not included in Release 4. These CRs were approved. CR005 was approved as **Category F**, CR006 and CR011 as **Category A**.

TD SP-010334 CRs to 03.71, 23.171 and 23.271. The change in section 10.1 of CR023 was questioned. It was reported that there had been a long discussion in the drafting group on this wording, and this had been agreed by SA WG2, aligning with the stage 3 terminology. The SA WG2 Chairman was asked to check for agreement on the wording of this during the review of the Categories.

The Categories of many of the CRs in the document were incorrect, and the SA WG2 Chairman was asked to re-evaluate them and re-issue the document, which was done, and the updated document presented in TD SP-010371.

TD SP-010371 CRs on 03.71, 23.171 and 23.271. These were revised CRs originally contained in TD SP-010334. All CRs except 03.71 CR023 and CR024 were approved. 03.71 CRs 023 and 024 were discussed at length and it a straw poll of support no consensus on the CRs 023 and 024 could be reached and these two CRs were not approved. It was noted that the CRs in this document had not been updated and the categories on the CRs did not match the Categories given in the TD cover sheet. The Categories as modified in the TD cover sheet were the Categories as these CRs were approved.

TD SP-010335 CRs to 23.228, Rel-5. CR038 was provided as both the original CR and its' revision 1. It was clarified that CR038r1 was the valid CR for approval. It was questioned whether CR042 had been aligned with GERAN (support of full rate for legacy transceivers) and did not conflict with SA WG2 liaison on the Codecs. It was clarified that this CR did not specify the decisions on Codecs in GERAN, but referred to where the specification would reside (TS 26.235, scheduled by SA WG4 for update to Rel-5 at this meeting). It was noted that TS 26.235 would need to be checked that it does not cause any conflicts with the GERAN agreements on legacy transceivers. These CRs were approved (CR038r1 was approved, and not CR038).

Liaisons:

TD SP-010356 This LS on Push services was introduced by the SA WG2 Chairman, and asked for a joint meeting between SA WG2, SA WG1 and T WG2 in the week commencing 25 June 2001, in order to progress the work on Push services within the groups. This was provided to TSG SA for information and noted. It was noted that "*the current version of TR23.974*" referred to the current draft of the report, as it was not yet under change control.

TD SP-010357 This LS on User Profiles was introduced by the SA WG2 Chairman and supported the recommendation for an ad-hoc to be set-up to develop the 3GPP User Profiles work. It asked the involved working groups to determine an appropriate date for such an ad-hoc meeting. This was provided for information and TSG SA noted the ongoing activity. SA WG5 was added to the list of invited WGs.

Work Item Changes:

TD SP-010343 This WI description proposed a WI for End to End QoS Concept and Architecture for PS Domain for Release 5. The WI was intended to compliment TS 23.107, adding end to end aspects. This WI description was approved.

TD SP-010342 This WI description proposed a WI for QoS in Rel-4: UMTS QoS Architecture for PS Domain. The need for this WI had been agreed at TSG SA#11 to provide continuity in the Work Plan, and the WID provided here. This WI description was approved.

TD SP-010339 This was an updated WI description for architecture for Call control and roaming to support IP-based multimedia services in UMTS. This WI description was approved.

TD SP-010340 This was an updated WI description for GTT. The need for the reference to the T WG2 specification 27.226 was questioned, and the expected result of the WI requested. It was considered that this work should be left to T WG2, and that it was not necessary for the reference to be included. The terminal aspects for Multimedia Messaging (under 14a) was also unnecessary and should be removed. SA WG2 Chairman was asked to update the document, removing this reference, which was provided in TD SP-010370 which was approved.

TD SP-010341 This was an updated WI description for LCS in Rel-5. It was noticed that a table was missing from section 14b). This was an editorial error, as the introduction to the table had been deleted. It was explained that WI description had not been properly completed, and discussion was needed to be where it fits into the WP. After some discussion on the scope of the work, and given the fact that there were no supporting companies for the WID, it was decided to **postpone** the WI until is complete. Comments should be sent to SA WG2 who agreed to update the WID in their next meeting.

TD SP-010372 Clarifications on S2 open CRs. This was provided by the SA WG2 Chairman and MCC support (A Sultan) for SA WG2. The SA WG2 Chairman presented the document which clarified the CRs which

7.3 TSG-SA WG3

7.3.1 Report from TSG-SA WG3 and review of progress

TD SP-010312 SA WG3 Status Report to SA#12. The SA WG3 Chairman presented his report to TSG SA#12 on activities and progress in SA WG3 since the last TSG SA meeting.

Following elections of officials in SA WG3 meeting#18, a new Vice Chairman, Mr. Valtteri Niemi (Nokia) was elected, replacing Stefan Puetz. Mr Bernie McKibben announced that he would resign from the Chairmanship of the SA WG3-LI sub working group and Candidates for his replacement are sought. These departing officials were thanked for their support in the work of SA WG3.

The issue of SIM-USIM authentication was discussed. The TSG CN Chairman reported that a CR had been approved which allows the authentication of a R99+ SIM in a 3G Authentication Centre. This was reported by the SA WG3 Chairman as incorrect. The scenarios allowed were clarified as the **R99+ SIM to 2G AuC** and **USIM to 3G AuC**, whether in a R99+ 2G network or a 3G Network, and no crossover is possible. TSG CN were asked to verify their specifications for this understanding and SA WG3 were asked to ensure that their specifications are very clear on this, in order to prevent such misunderstanding occurring again.

The actions for TSG SA were included in the slides and were dealt with under agenda item 7.3.2 and 7.3.3. The report was noted and the SA WG3 Chairman thanked for his report.

7.3.2 Questions for advice from TSG-SA WG3

SA3 specifications for IMS security will depend on IETF documents. If modifications are made to referenced IETF documents are made they may impact the 3GPP Security specifications. The handling of this was covered in the discussions of the report from the IETF Rapporteur, see TD SP-010318. The SA WG3 Chairman agreed to report this back to SA WG3.

7.3.3 Approval of contributions from TSG-SA WG3

TD SP-010350 TR-45 / 3GPP Joint AKA Control. This joint control document was endorsed by TSG SA.

TSs and TRs:

TD SP-010322 TS 33.200 version 2.0.0 "3G Security; Network Domain Security; MAP application layer security (Release 4)". A summary of the editors notes still contained in the TS was provided by the SA WG3 Chairman in TD SP-010347, which was presented in detail by the SA WG3 Chairman and was noted. It was also noted that the issues regarding security policies need to be resolved. It was also noted that interoperation between operators which implement MAP security and those which do not have Security implications. This was clarified as being covered under Security Profiles, which allow mutual agreement on the implemented security levels between two operators. TS 33.200 (TD SP-010322) was then approved and placed under TSG SA change control as version 4.0.0 (Rel-4).

Preliminary information on the Release 5 version of MAP security was requested from SA WG3 for TSG SA#13. Additionally, Alcatel requested that a Report is provided for the next meeting giving example(s) of a key distribution mechanism.

CRs:

TD SP-010313 2 CRs to 33.102: Correction to periodic local authentication (R99, Rel-4). These CRs were approved.

TD SP-010314 2 CRs to 33.102: Correction to COUNT-C description (R99, Rel-4). These CRs were approved.

TD SP-010315 1 CR to 33.102: Include reference to TS 43.041 GERAN Stage 2 specification (Rel-5). This CR was withdrawn in order to re-check the inclusion of the security aspects in TS 43.051 and an error in the formulation of the CR cover sheet.

TD SP-010316 2 CRs to 33.102: Calculation and Wrap-around of START value (R99, Rel-4). These CRs were approved.

It was reported that TSG RAN had agreed on the corresponding CRs in their specifications.

TD SP-010317 2 CRs to 33.102: Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted (R99, Rel-4). These CRs were approved.

TD SP-010319 2 CRs to 33.102: THRESHOLD Check at RRC connection establishment (R99, Rel-4). These CRs were approved.

TD SP-010320 2 CRs to 33.103: The multiplicity of Data integrity symbols (R99, Rel-4). These CRs were approved.

TD SP-010321 2 CRs to 33.105: Deletion of the maximum size of a RRC message (R99, Rel-4). These CRs were approved.

TD SP-010374 CR to 33.107 Update of 33.107 to include Release 5 requirements. This CR was approved.

WIs:

TD SP-010324 WI Description: Security Aspects of Requirement for Network Configuration Independence. It was clarified that the understanding was that this Work Item was limited to the IMS. With this understanding, the WI description was approved.

TD SP-010323 WI Description: Access security for IP-based services. This update postpones the completion of the WI to March 2002. This WI description was approved.

TD SP-010325 WI Description: Network Domain Security; MAP application layer security (NDS/MAPsec) (formerly known as MAP application layer protection). This update postpones the completion of the WI to March 2002. This WI description was approved.

It was noted that the decision for the Release 5 target date will have impact upon the inclusion of WIs which are delayed beyond that date.

TD SP-010327 WI Description: Revised MExE Security Analysis Activity WID. It was agreed that this should be a TSG T Work Item and TSG SA noted the WI. **TSG T were requested to adopt this WI into their Work Programme.**

Liaisons:

TD SP-010349 Security and UE functionality split. This was provided for information and suggested a joint meeting with SA WG1, T WG3 and T WG2 delegates to conduct an analysis of the security implications of UE functionality split. The SA WG3 Chairman reported that this meeting had been set up for 2 July 2001. The liaison was then noted.

7.4 TSG-SA WG4

7.4.1 Report from TSG-SA WG4 and review of progress

TD SP-010301 SA WG4 Status Report at TSG SA#12. The SA WG4 Chairman presented his report to TSG SA#12 on activities and progress in SA WG4 since the last TSG SA meeting.

SA WG4 elected a new Vice Chairman: Mr. Tomoyuki Ohya (NTT DoCoMo), nominated at SA WG4#17.

It was reported that the AMR Wideband (AMR-WB) codec Characterisation testing was progressing as follows:

Phase 1A completed

- Performance without channel errors (all applications)
- Performance in GSM FR GMSK channel

Phase 1B postponed to after TSG-SA#12

- Performance in 3G WCDMA channel

Phase 2 to be carried out later

- Preformance in EDGE 8-PSK channels
- Performance in PS applications (conversational, streaming)

The AMR Wideband Characterisation listening tests progress was also reported. The results verify the good performance of the AMR-WB codec, performance requirements relevant to Phase 1A were confirmed to be met and further analysis of results ongoing in SA WG4.

Multimedia Codecs and Protocols for Conversational PS Services: It was reported that, as requested by SA WG4, the default Codecs specification (TS 26.235) had been approved at TSG-SA#11 to Rel-4, and because this TS belongs to Rel-5 feature "IMS (Provisioning of IP-based multimedia services)", and requires introduction of IMS subsystem. SA4 requests revision of the approval of TS 26.235 to be for Rel-5. The discussion and conclusion on this is reported under agenda item 7.4.3, TD SP-010309.

The actions for TSG SA were included in the slides and were dealt with under agenda item 7.4.3. The report was then noted and the SA WG4 Chairman thanked for the presentation.

7.4.2 Questions for advice from TSG-SA WG4

There were no items raised under this agenda item.

7.4.3 Approval of contributions from TSG-SA WG4

TSs and TRs:

TD SP-010281 Reply to “LS on Extended Streaming Service” and “LS regarding User Profile". This LS was provided for information and was noted.

TD SP-010302 Preliminary Draft 3GPP TR 26.976 version 0.3.0 "AMR-WB Speech Codec Performance Characterization v 0.3.0" (Release 5). This report was provided so that TSG SA could approve the work of the Laboratory. The work of the test laboratory was approved. Note that the draft TR was not presented for approval at this time.

WIs:

TD SP-010311 Work Item Description on Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E). It was clarified that SA WG1 have started discussions on the relevant service requirements for this. The Chairman asked that in future presentations of WI descriptions that as much information as possible is provided about impacted specifications and WGs in order to clarify these issues in the WI description sheets. It was also clarified that the specifications 26.223 and 26.224 were under secondary responsibility of SA WG2. There was some concern about the lack of the SA WG1 service requirements being available before starting this detailed work. Because of this, the WI was not approved, and may be re-submitted when SA WG1 have provided the service requirements. SA WG1 should discuss this topic at their next meeting. It was recognised that the principle of starting work in this area was needed, but that a full consensus on the WI is required as well as at least 4 supporting companies. SA WG4 were asked to ensure that all impacted specifications and WGs are included in the WI description sheet. SA WG1 were asked to study the implications of this work. The Charging aspects also required consideration and SA WG5 were asked to consider this following the SA WG1 service aspects work. The WI was updated and provided in TD SP-010392.

TD SP-010392 Revised Work Item Description on Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E). This was updated after discussion of TD SP-010311 by a drafting group of interested delegates. This was presented and approved.

CRs:

TD SP-010303 CRs to TS 06.10 and TS 46.010 on Correction of Fig. 3.2 (from Phase 2 to Release 4). These CRs were approved.

TD SP-010304 CRs to TS 06.12 and TS 46.012 on Corrections of the formula for averaging Xmax (from Phase 2 to Release 4). These CRs were approved.

TD SP-010305 CRs to TS 26.101 on Correction to SID Frame Mapping (R99 and Release 4). These CRs were approved. SA WG4 were asked to ensure that their CRs include the Summary of Change for ease of understanding the CRs.

TD SP-010306 CRs to TS 26.104 Corrections encoder-decoder operations AMR-NB floating point (R99 and Release 4). These CRs were approved.

TD SP-010307 CRs to TS 26.173 on AMR-WB Fixed codebook initialisation (Release 5). These CRs were

approved.

TD SP-010308 CRs to TS 26.174 on Update of AMR-WB Codec test sequences after CRs to TS 26.173 (Release 5). These CRs were approved.

TD SP-010309 CRs to TS 26.235 on Update of AMR-NB and AMR-WB RTP payload (Release 4). These CRs were approved.

The withdrawal of the Rel-4 version of TS 26.235 and re-approval as Rel-5 was requested by SA WG4 as it was dependent upon the Rel-5 IMS specifications. There was some objection that this change of Release means a change of Scope to the document. Mr. Usai was asked to add a note to the scope of the document to state that the applicability to GERAN is for further study (or similar). This Rel-5 CR was produced in TD SP-010378.

TD SP-010378 CR 26.235-002 on Applicability of TS 26.235 to GERAN (FFS) (REL-5). This was updated as requested in the discussion of TD SP-010309. This CR was approved.

TD SP-010310 CR to 28.062 on Reference to a deleted TFO message (Rel-4). This CR was approved.

7.5 TSG-SA WG5

7.5.1 Report from TSG-SA WG5 and review of progress

TD SP-010230 Status report from SA WG5 to SA#12. The SA WG5 Chairman presented his report to TSG SA#12 on activities and progress in SA WG5 since the last TSG SA meeting.

Clarification on "CN5 on potential work-overlap on Charging" (Slide 8, bullet 2) was provided by the Chairman - the two groups will meet to determine any areas of overlap in their work and to avoid future overlap in their work. The TSG CN Chairman reported that Charging work was a main area of overlap between the two groups, which could cause some contention. The SA WG5 Chairman reported that there were no position at present on any overlap issues, but would go to the meeting with an open view to improvement.

The actions for TSG SA were included in the slides and were dealt with under agenda item 7.5.2 and 7.5.3. The report was then noted and the SA WG5 Chairman thanked for the presentation.

7.5.2 Questions for advice from TSG-SA WG5

TD SP-010224 LS on consistent description regarding the use of Charging Characteristics. This was provided to TSG SA for information and mentioned during the presentation of the SA WG5 report. The LS was noted.

TD SP-010225 LS reply to SA1 LS “regarding User Profile”. This was provided to TSG SA for information and mentioned during the presentation of the SA WG5 report. The LS was noted.

TD SP-010226 IMT-2000 Management Co-operation. This was provided to TSG SA for information and mentioned during the presentation of the SA WG5 report. The LS was noted. TSG SA noted that the work of SA WG5 was to provide the basis for this work in the ITU. Delegates were asked to bring the LS to the attention of the GSMA. SA WG5 were also asked to ensure that the GSMA are copied in such liaisons in the future.

TD SP-010228 LS in reply to three related User Equipment Management liaisons. This was provided to TSG SA for information and mentioned during the presentation of the SA WG5 report. The LS was noted.

7.5.3 Approval of contributions from TSG-SA WG5

TSs and TRs:

TD SP-010233 Management Level Procedures and Interaction with UTRAN (Rel4 TR 32.800 V1.0.0). It was noted that this was a 3GPP internal report and had not been presented to TSG SA for in formation. This TR was approved and placed under TSG SA change control as version 4.0.0 (Rel-4).

TD SP-010283 Configuration Management - Rel4 reorganisation & add Bulk CM. It was commented that the restructuring of the specifications into a new set of documents with new numbers and multiple parts caused confusion. The TSG SA Chairman commented that this deviated from the usual numbering scheme for 3GPP documents. There was sympathy for the work involved in changing the numbering system back to the usual scheme, but if the correct procedure of presenting a version for information (v1.0.0), then this would have been commented upon before the documents were finalised. The SA WG5 Chairman had no objection to changing the specifications, but this would take time. It was agreed that the technical content was endorsed, and the documents would be renumbered into the following scheme:

R99 Old no.	Old (R99) specification title	Rel-4 New no.	New (Rel-4) specification title	(original SA WG5 proposal)
32.106-1	3G Configuration Management: Concept and Requirements	32.600	**3G Configuration Management: Concept and High-level Requirements**	32.600
32.106-1	<Notification IRP requirements from 32.106-1 and 32.106-2>	32.301	**Notification IRP**: Requirements	32.301-1
32.106-2	Notification IRP: IS	32.302	Notification IRP: Information Service	32.301-2
32.106-3	Notification IRP: CORBA SS	32.303	Notification IRP: CORBA SS	32.301-3
32.106-4	Notification IRP: CMIP SS	32.304	Notification IRP: CMIP SS	32.301-4
32.106-8	Name convention for Managed Objects	32.300	**Name Convention for Managed Objects**	32.300
32.106-1	<Basic CM IRP IS requirements from 32.106-1 and 32.106-5>	32.601	**Basic CM IRP**: Requirements	32.601-1
32.106-5	Basic CM IRP IM (Intro & IS part)	32.602	Basic CM IRP: Information Service	32.601-2
32.106-6	Basic CM IRP CORBA SS (IS related part)	32.603	Basic CM IRP: CORBA SS	32.601-3
32.106-7	Basic CM IRP CMIP SS (IS related part)	32.604	Basic CM IRP: CMIP SS	32.601-4
-	<New>	32.611	**Bulk CM IRP**: Requirements	32.602-1
-	<New>	32.612	Bulk CM IRP: Information Service	32.602-2
-	<New>	32.613	Bulk CM IRP: CORBA SS	32.602-3
-	<New>	32.614	Bulk CM IRP: CMIP SS	32.602-4
	<New>	32.615	Bulk CM IRP: XML file format definition	32.602-5
32.106-1	<Basic CM IRP Generic NRM requirements from 32.106-1 and 32.106-5>	32.621	**Generic Network Resources IRP**: Requirements	32.620-1
32.106-5	Basic CM IRP IM (Generic NRM part)	32.622	Generic Network Resources IRP: NRM	32.620-2
32.106-6	Basic CM IRP CORBA SS (Generic NRM related part)	32.623	Generic Network Resources IRP: CORBA SS	32.620-3
32.106-7	Basic CM IRP CMIP SS (Generic NRM related part)	32.624	Generic Network Resources IRP: CMIP SS	32.620-4
32.106-1	<Basic CM IRP CN NRM requirements from 32.106-1 and 32.106-5>	32.631	**Core Network Resources IRP**: Requirements	32.621-1
32.106-5	Basic CM IRP IM (CN NRM part)	32.632	Core Network Resources IRP: NRM	32.621-2
32.106-6	Basic CM IRP CORBA SS (CN NRM related part)	32.633	Core Network Resources IRP: CORBA SS	32.621-3
32.106-7	Basic CM IRP CMIP SS (CN NRM related part)	32.634	Core Network Resources IRP: CMIP SS	32.621-4
32.106-1	<Basic CM IRP UTRAN NRM requirements from 32.106-1 and 32.106-5>	32.641	**UTRAN Network Resources IRP**: Requirements	32.622-1
32.106-5	Basic CM IRP IM (UTRAN NRM part)	32.642	UTRAN Network Resources IRP: NRM	32.622-2
32.106-6	Basic CM IRP CORBA SS (UTRAN NRM related part)	32.643	UTRAN Network Resources IRP: CORBA SS	32.622-3
32.106-7	Basic CM IRP CMIP SS (UTRAN NRM related part)	32.644	UTRAN Network Resources IRP: CMIP SS	32.622-4
	<New>	32.651	**GERAN Network Resources IRP**: Requirements	32.623-1
	<New>	32.652	GERAN Network Resources IRP: NRM	32.623-2
	<New>	32.653	GERAN Network Resources IRP: CORBA SS	32.623-3
	<New>	32.654	GERAN Network Resources IRP: CMIP SS	32.623-4

The updated documents will be sent to the TSG SA e-mail list for approval by correspondence after this meeting (for checking of the editorial update only, as the technical content is already endorsed by TSG SA).

TD SP-010236. Four (4) New Draft specifications on Charging Release 4- (Drafts V1.x.y of 32.200, 32.205, 32.215 and 32.235).These draft specifications were provided for information and were noted.

TD SP-010237 Rel4 CR to Telecommunication Management; Performance Management (PM) (32.104). This proposed the withdrawal of TS 32.104 from Rel-4 (which was a direct upgrade from the Release 1999 version in March 2001) and proposed to split the Rel-4 version into 3 parts. It was decided to use 3 specification numbers, instead of parts, as follows:

R99 Old no.	Old (R99) specification title	Rel-4 New no.	New (Rel-4) specification title	(original SA WG5 proposal)
32.104	Telecommunication Management; 3G Performance Management (PM) - Concept parts	32.401	Telecommunication Management; Performance Management (PM); Part 1: Concept and Requirements	32.104-1
32.104	Telecommunication Management; 3G Performance Management (PM) - Performance Management parts	32.402	Telecommunication Management; Performance Management (PM); Part 2: Performance Measurements - GSM	32.104-2
32.104	Telecommunication Management; 3G Performance Management (PM) - Measurements parts	32.403	Telecommunication Management; Performance Management; Part 3: Performance Measurements UMTS and combined UMTS/GSM	32.104-3

The CR form was withdrawn. The withdrawal of 32.104 from Release 1999 was approved. **TS 32.403** (originally proposed 32.104-3) was approved and placed under TSG SA change control as version 4.0.0 (Rel-4). TS 32.401 and TS 32.402 were provided for information and were noted.

TD SP-010282 Rel4 CRs to Fault Management; (32.111-series). CRs 003, 008 and 009 were approved. CR001 was provided for information and noted.

TD SP-010285 Two (2) New Draft specifications on Generic IRP Management; (32.112-series). These 2 specifications were numbered as follows and approved and placed under TSG SA change control as version 4.0.0 (Rel-4):

Rel-4 New no.	New (Rel-4) specification title	(original SA WG5 proposal)
32.311	Telecommunication Management; Generic IRP Management; Part 1: Requirements	32.112-1
32.312	Telecommunication Management; Generic IRP Management; Part 2: Information Service	32.112-2

CRs:

TD SP-010235 R99 CRs to Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain (32.015). These CRs were approved.

TD SP-010284 R99 CRs to Configuration Management; (32.106-series). It was clarified that these corrections had already been included in the Rel-4 specifications in their proposed restructuring (see TD SP-010283). These CRs were approved.

TD SP-010239 R99 CR to Fault Management; Part 3: Alarm Integration Reference Point: CORBA Solution Set Version 1:1 (32.111-3). This CR was approved.

TD SP-010231 Rel4 CRs to 3G Telecom Management principles and high level requirements (32.101). It was noted that for the OAM specifications, a late change to Rel-4 was permitted, and therefore the Category B CRs were acceptable in this case. These CRs were approved.

TD SP-010232 Rel4 CRs to 3G Telecom Management Architecture (32.102). These CRs were approved.

Work Items:

TD SP-010234 Work Item Description for New Rel-5 Feature on "User Equipment (UE) Management". The SA WG5 Chairman presented this Work Item Description. It was commented that Telecom Management work only should be done in SA WG5, and the other work proposed in this WID belongs to other groups, and therefore SA WG5 should not be the owner of this WI. There was also objection to the placing of the Feature in Rel-5, due to the timescales. The Chairman noted that after completion of the SA WG5 work, other groups will need to do some work and a late approval of such work for Rel-5 would not be acceptable. (The WI was targeted for June 2002 completion). The SA WG5 Chairman clarified that the specification is expected to undergo gradual development, and it was requested that this is made clear in the WI description. The possible impact on the Core Network should also be considered. There was much discussion and consensus on the WI was not reached, however, the TSG SA Chairman suggested that a study and report providing the goals and methods to be used, the requirements and interactions with other features, including the responsibility of the different parts of the work and the timescales and phasing is produced. This proposal was agreed and the SA WG5 Chairman was asked to produce such a study report in co-operation with SA WG1, SA WG2, T WG2 and other groups. A group was formed outside the meeting to modify the WI description in order to clarify the procedure to have a study focussing on a Phased approach in order to have the WI acceptable for approval. This was done and the updated WI description provided in TD SP-010286.

TD SP-010286 Proposed WID for "User Equipment (UE) Management (Feature) Feasibility Study" (revision of TD SP-010234). This was presented by the SA WG5 Chairman. This WI description was approved.

TD SP-010238 Work Item Description: Rel-5 Performance Management (Building Block: OAM-PM). It was commented that this work should not be linked to a Release, but only timescales provided. This WI description was approved. SA WG5 was asked to keep future WI description sheets are not Release dependent, and to indicate the expected completion date rather than the expected Release.

7.6 3GPP Work plan

The updated Project Plan of 3GPP Work Items was provided in TD SP-010291, and presented under agenda item 8.8.

7.7 Review of TSG-SA Release 1999 and Release 4 completion

This was included in discussions under agenda item 8.6.

7.8 Review of TSG-SA Release 5 status and scheduling

This was included in discussions under agenda item 8.8.

7.9 Beyond Release 5

Contributions concerning 3GPP work beyond Release 5 were discussed with contributions under agenda item 8.9. A workshop was arranged for 17 and 18 October 2001, in Helsinki to discuss 3G Evolution.

7.10 Review of TSG-SA work programme

A presentation was provided by Mr. A. Sultan, which is reported under agenda item 8.8.

7.11 Letters to other groups

It was agreed that TD S3-010227 "LS from GERAN on terminology clarifications" would be sent to all TSG SA WGs (see agenda item 6.1).

7.12 Other issues

There were no contributions under this agenda item.

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

8.1 TSG-CN

8.1.1 Report and questions for discussion from TSG-CN

TD SP-010354 CN#12 Status Report. The Report of TSG CN to TSG SA was presented by the TSG CN Chairman using the slides provided in TD SP-010353.

The issues for SA Attention were:

SPAN 11 WP NAR: Use of MNCs by MVNOs. A liaison was sent to SPAN 11 and copied to SA WG1 on problems with introducing new MCCs or mixing 2-3 digit MNCs. Commercial issues were not considered in the LS.

Guidelines for SDO input into ITU-T SSG Q.REF-1. Release 99 Network and System specifications were outlined and it was recommended to base this upon output of TSG#11 (March 2001). A warning was issued that ITU-R & ITU-T versions may be different, and the actual output to ITU-T SSG was left the responsibility of the SDOs.**MAP Application Security**: Two alternative sets of CRs were approved in CN depending on approval of TS 33.200. (Note that this specification was approved by TSG SA#12, see agenda item 7.3.3). TSG CN Reported that there was a general problem that SA WG3 provide requirements and architecture specifications too late.

Co-ordination of OSA work: There was a weak lead from VHE/OSA SA1 and a "Rotating" OSA SA2 chair. There was felt to be poor communications with SA WG3 on security issues and an overlap of the scope with SA WG5 work on charging. There was also reported to be poor communications with T WG2 on retrieval of terminal capabilities.

Transfer of IMS Service Provisioning work: TSG CN requested that the work be transferred to TSG CN as soon as possible. SIP+ designated ISC (IMS Service Control) in CN was expected to be handled in joint CN WG meetings.

The report that 23.218 IMS Call Model had an uncertain scope was questioned. It was clarified that the original environments envisaged for the IMS Call model has changed, and it is unclear ISC protocol or just the basic call model. This will be clearer when the SIP+ work is transferred to CN, hopefully by TSG CN#13.

The information to be provided to GSM Europe on 3 digit MNC was questioned, and the TSG CN Chairman reported that it was considered better that any liaison should come from TSG SA. This was covered in the discussion of TD SP-010366.

The SA WG3 Chairman stated that there had been no input on OSA Security, and the communication has been zero. The TSG CN Chairman reported that the lack of communication from CN WG5 seemed to be the main problem, and better communication will be aimed for. The communication with T WG2 on Parlay work and transmission of terminal capabilities to third parties needs to be worked on.

The report was noted and TSG CN Chairman was thanked for his report.

8.1.2 Information on Release 1999, Release 4 and Release 5 status in TSG-CN

TD SP-010365 LS Indication of Extended uplink TBF capability. This LS was provided for information and was noted.

TD SP-010366 LS Request for information from GSM Europe on 3 digit MNC. this was presented by the TSG CN Chairman and outlines that it is not possible to go from 2-digit to 3-digit MNCs without the replacement of equipment. The LS was noted.

TD SP-010367 Liaison Statement on Adding New Definitions to 21.905. This requested the introduction of some abbreviations into the vocabulary document (TR 21.905). It was noted that a request had also been received from TSG RAN. The LS was then noted.

8.1.3 Information on status and changes to deliverables

The status and changes to CN deliverables and Work Programme were presented in the Report (TD SP-010354).

8.2 Report from TSG-RAN

8.2.1 Report and questions for discussion from TSG-RAN

TD SP-010386 TSG RAN #12 meeting Report. The Report of TSG RAN to TSG SA was presented by the TSG RAN Chairman.

OVERVIEW: The number of CRs on Release '99 decreasing but still high, several CRs on Release 4 only and on Release 5 only. Compatibility is now an important issue. e.g. it was agreed to request correction of a Release 1999 issue not fully completed but already mandatory with a means to introduce as an option in existing versions of the specifications using UE capability information and then having it mandatory in Release 5. Following the request at TSG SA #11 on accuracy requirement, a LS clarifying the issue had been sent to SA WG1 and it was reported that the matter is now urgent. RAN WG2 and RAN WG4 have a common meeting taking place at the same time as SA WG1. It is of high importance that SA WG1 provide guidance as early as possible during that week.

Isolated Impact CRs (Ad Hoc group): The issue raised is the need for RAN subgroup to identify the impact on prior Releases when a CR is presented on a Release ("Backward Compatibility") and also the impact on the previous version of the same Release. TSG RAN proposed to add a new paragraph on the CR sheet to capture the result of that analysis. This was discussed under agenda 9.2.

A joint meeting is planned between RAN WG2, RAN WG4 and T WG1. It was emphasised that the activity of RAN WGs will be restricted to providing background information on what needs to be tested. T WG1 will then describe the tests.

The TrFO task will be pursued by RAN WG3. A problem had arisen on the split of the work between TSG RAN and TSG SA with regard to O&M. It is felt preferable that principle shall be defined by SA WG5 and detailed implementation elaborated by RAN WG3.IP Transport: TSG-RAN endorsed the RAN WG3 decision that IPv6 is mandatory and IPv4 is optional. But it was felt necessary to clarify as follows: *"Because of transition period it is felt preferable that dual stack support is the best way to evolve. This does not prevent single stack support (IPv4 or IPv6). The decision is then left for operators taking into account the potential inter-working or performance consequences."*It was clarified that although either stack can be supported, in practice, vendors will need to implement both IPv4 and IPv6 stacks in order to offer equipment to different operators. It was also clarified that TSG RAN has assumed that the impact is contained within the RAN and there is no impact on the UE.

It was also clarified that the IP version used on the transport on the Core Network would depend upon the implementation, and both can be used, but there is a preference by TSG RAN to move to IPv6 as quickly as possible, but IPv4 support is needed for interworking with legacy elements.

The service impacts in SA WG1 service requirements for the data rates/capacity and use of IPv6 were

questioned. A Motorola representative stated that Motorola were planning to contribute to the next SA WG1 meeting on this issue.

UE positioning issues were discussed, and the RAN Chairman remarked that the accuracy of the terminal measurements would have an impact as it is in GPS, etc. and that a liaison statement to SA WG1 was provided on this in TD SP-010368.

It was reported that The Work Item "Vendor specific extensions in NBAP, RNSAP, RANAP and SABP messages" was rejected by RAN because there was no consensus. Because that this feature existed in the core, the issue was raised for advice from TSG SA.

It was additionally clarified by the RAN Chairman and by other delegates that the proposal had been strongly rejected by TSG RAN in a call for all functionalities to be fully specified, rather than allowing vendor-specific usage. This decision will not, however, block the future specification of non-proprietary extensions into the standard.

The new WI on "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN" was conditional on the work being required by TSG SA. It was clarified that the work in SA WG1 will start at their next meeting, based upon contributions. SA WG2 had not started work but would do so based upon contributions at their next meeting, and when SA WG1 requirements have been received. Therefore, it was clarified that TSG RAN will wait for the output of SA WG1 and SA WG2 before starting any work.

The report was noted and TSG RAN Chairman was thanked for his report.

8.2.2 Information on Release 1999, Release 4 and Release 5 status in TSG-RAN

TD SP-010368 LS on Requirements on UE positioning. This LS was provided to TSG SA for information, and informs SA WG1 that RAN WG2 has started work on the testing aspects of UE positioning within UTRAN. Some questions regarding the requirements for the specified methods Observed Time Difference Of Arrival (OTDOA) and Assisted GPS (A-GPS) arose. The position calculation may be performed either within the network or by the UE, which is referred to as UE assisted and UE based positioning, respectively. SA WG1 were asked to take this into consideration at their next meeting and try to answer the LS as quickly as possible. The LS was then noted.

TD SP-010373 Review of UTRAN O&M Procedures TR32.800. This was presented during the report from TSG RAN and was noted.

8.2.3 Information on status and changes to deliverables

The status and changes to RAN deliverables and Work Programme were presented in the Report (TD SP-010386).

8.3 Report from TSG-T

8.3.1 Report and questions for discussion from TSG-T

TD SP-010358 3GPP TSG T#12 Status report. The Report of TSG T to TSG SA was presented by the TSG T Chairman.

TSG T Working Group Officials had been elected and Chairmen and Vice Chairmen were welcomed to their posts (see slide 3). The following issues were reported:

TS 34.108 "Common test conditions for UE conformance testing": The RBs have been organised as RBs for interoperability tests and RBs for other functional tests. RF conditions for signalling tests are to be discussed at next TSG T meeting.

TSG T also developed a method for T WG1 to verifying the maturity of their test specifications:

- Stable on available industry equipment
- Can be compiled on at least one available compiler
- Passes syntax checkerInformation about the progress of the TSG T Working Groups was also provided as well as information on issues within TSG T.

The definition of -- T WG1 have organised a joint ad-hoc meeting to try to define the ??? because up until now, the relevant experts have not attended the T WG1 meetings. Members were asked to send the relevant expertise to the T WG1 meetings in order to progress this work.

The CR001 to 51.011 introducing addition of GPRS operator preferences was reported as approved, subject to SA WG1 requirements approval. The TSG SA Chairman asked why this had been included when there are no service requirements for this at present. TSG SA had agreed that it would be premature to approve a

CR until the best solution is agreed. **It was clarified that as the condition had not been fulfilled, then the CR will not be implemented (i.e. it is not approved)**.

8.3.2 Information on Release 1999, Release 4 and Release 5 status in TSG-T

TD SP-010360 LS from T3 on Rejection of 2G Authentication and Key Agreement by 3G ME with USIM in UTRAN. The TSG SA Chairman clarified what had been clarified during the TSG CN report, that a R99+ 2G SIM can be authenticated only by a R99+ 2G Authentication Centre, and a 3G USIM only by a 3G AuC irrespective of the network generation (R99+/3G). **The conclusions reached were that there may be a need to modify 33.102 slightly to clarify this and TSG CN were asked to update their specifications to remove this erroneous functionality recently introduced.** The TSG CN Chairman asked when a CR would be available from SA WG3 in order to clarify the text. The SA WG3 Chairman agreed to update this at their next meeting (4-6 July 2001) and transmit the CR to CN WG1. **CN WG1 were asked to check that the signalling allows a dual mode terminal to determine whether it is connected to a R99+ or 3G Network**.

<SA CHAIRMAN TO CHECK THE ABOVE TEXT>

TD SP-010361 LS reply to SA1, SA3, T3 cc SA, SA2, SA4, T, CN1 on UE Split. This had been superseded by the SA WG3 offer to host a joint meeting on the UE functional split issues (see TD SP-010349 under agenda item 7.3.3). The Liaison was then noted.

TD SP-010362 LS to SA1 cc SA2, SA on push services. This was provided to TSG SA for information and was noted.

TD SP-010363 LS to ECMA TC32 cc SA on ECMA QSIG Standard. This was provided to TSG SA for information and was noted.

8.3.3 Information on status and changes to deliverables

The status and changes to CN deliverables and Work Programme were presented in the Report (TD SP-010358).

8.4 Report from TSG-GERAN

8.4.1 Report and questions for discussion from TSG-GERAN

TD SP-010376 GERAN status Report. The GERAN Chairman presented the report of the activities of GERAN since the last TSG SA meeting.

It was reported that progress was hoped to be made on SIP compression at the joint meeting between GERAN and SA WG2. It was asked whether there was any SA WG1 activity on optimised voice regarding user experience/requirements. It was reported that there was some activity in SA WG2 on this.

The Chairman stated that there was a legacy in GERAN for radio resource optimisation versus applications, and the architecture would need to be modified to improve the optimisation, which would be a fundamental change to the GERAN systems, and was not feasible. It was also stated that it was thought that "somehow" the terminal will know what resources to request, and the definition of the "somehow" is still to be done. The SA WG1 Chairman asked for information from GERAN on the type of client envisaged for voice over IP (VoIP). It was clarified that VoIP would be possible over any IP client, but it would not be optimised. GERAN are checking other methods of improving the optimisation. Concerns were raised that the optimisation of GERAN for VoIP would need to be done carefully, in order not to lose the advantages provided by IMS.

The GERAN Chairman also clarified that the GERAN philosophy has been that the Call set-up needs a higher portion of the bandwidth than the bandwidth needed by a voice call in progress, this has not been the case for UTRAN work.

It was also clarified that slide 15 should be corrected to show December 2001, rather than December 2002 for GERAN IMS Support.

The GERAN Chairman reported that although GERAN welcomed the initiative of a joint GERAN / SA WG2 meeting, he requested that experts with an interest in both GSM radio and IMS over the radio should consider the problems in order to provide good contribution into the joint meeting.

8.4.2 Information on Release 1999, Release 4 and Release 5 status in TSG-GERAN

The status of the GERAN work was included in the report to TSG SA (TD SP-010376).

8.4.3 Information on status and changes to deliverables

The updated GERAN work plan was provided in GP-011418 (contained in TD SP-010376) for information.

8.5 Letters to others groups

The contributions from GERAN were dealt with under seperate agenda items.

8.6 Review of Release 1999 and Release 4 specification sets

TD SP-010279 Specifications status prior to TSGs#12. This was the status at before the TSG #12 plenaries and was noted.

TD SP-010379 CR 005 to 21.101 Release 1999: Correction to list of specifications. (Replaces TD SP-010273). This CR was presented by Mr. Meredith, MCC, and reflected the changes to the specifications list made since TSGs# 11. This CR was approved. Delegates were asked to check the resulting updated version.

TD SP-010380 (Replaces TD SP-010274) CR 001 to 21.102 Release 4: Correction to list of specifications. A correction was made and provided in TD SP-010396. This CR was approved.

TD SP-010381 3GPP TS 21.103 v0.0.0: "3rd Generation mobile system Release 5 specifications". This TS was provided for information and was noted. It is proposed that when Rel-5 is frozen, the full set could be published by the SDOs. There is no intention for the SDOs to publish Rel-5 specifications at present.

TD SP-010382 CR 002 to 01.01 Release 1999: Correction to list of specifications. This CR was approved. The TSG SA Chairman commented that he would prefer the use of "a 3GPP system connected to GERAN (UTRAN)" instead of GSM(UMTS) in this document. Mr. Meredith agreed to produce a CR for this at TSG SA#13.

TD SP-010383 CR 001 to 41.102 Release 4: Correction to list of specifications. This CR was approved.

TD SP-010384 3GPP TS 41.103 v0.0.0: "GSM Release 5 specifications". This TS was provided for information and was noted. Comments should be forwarded to J. Meredith for correction.

TD SP-010385 status List following SA#12. This status list was noted. Corrections should be forwarded to J. Meredith, MCC.

8.7 General aspects of Release handling and definition

There was no specific discussion under this agenda item.

8.8 Review of Release 5 status, content and Scheduling

TD SP-010290 MCC review of the Work Plan. This review, compiled by MCC, was presented by A. Sultan, MCC. This provides an overview of the status of the Work of each Feature. The slides presented were slightly modified to those in the TD, and the updated slides were later provided in TD SP-010395.

It was noted that the SA WG3 review of the work plan was scheduled for their July 2001 meeting and the Work Plan would then be updated to provide more accurate details of progress.

It was clarified that the modifications needed to take into account the progress at this meeting had been included as far as possible.

Push Services: It was reported that Stage 2 is almost complete and a joint meeting with T1 and T2 is scheduled for the end of July 2001 to progress it. The Stage 3 will need to be completed when the Stage 2 is finalised.

There was a request that the finalisation dates for the work plan items to be made realistic, and not set to fit in with a Release deadline exactly (e.g. many items have completion date for December 2001 for Release 5) as the realistic Release 5 date can then be chosen more realistically too. It was recognised, however, that some time pressure is needed in order to progress the work quickly.

TD SP-010291 Work Plan version June 11th. The latest version of the updated Work Plan was presented by A. Sultan, MCC. The different formats and views provided were explained.

TD SP-010393 Summary of changes to Work Plan. This was provided by A Sultan in order to show the changes from the document provided to TSG SA#11 (shown with revision marks to TD SP-010209). This was provided for information and noted.

TD SP-010292 Policy Considerations for Release 5. This was presented by Vodafone and addresses some of the policy issues to be considered at the September TSG SA meeting and asks TSG SA to make decisions on the following:

1 To identify the minimum functionality for IP-based Multimedia, which will stand alone and prove commercially viable. The earliest possible date for completing the standard should be estimated. The remainder of this IMS work should be deferred to a later release.

2 Critical paths which might delay conclusion of IP-based Multi-media by March 2002 need to be identified. An ad hoc group (or teleconference) should perform this task by the end of August 2001. While it is recognized that all work is 'contribution driven', delegates should agree to add the necessary resources to overcome any shortages identified. Leaving this decision until September or December 2001 may well be too late.

3 If the planning work performed as part of (2) above, shows that IP-based Multi-media is delayed beyond March 2002, then it should be moved into Release 6 1 , to allow an earlier introduction of the other features such as Camel 4 in Release 5. Release 5 would then have a smaller content but could be achieved in December 2001.

There was some concern about delaying the Release dates too far, as the market needs the standards very soon. The Chairman requested that WI are not accepted with very short timescales, just because they fit into the Release deadline. Realistic dates should be made and critical paths identified for their timely success.

There was concern expressed about removing significant Features from Release 5, as it would damage confidence in the 3GPP system. It was argued that being realistic was important, as the lateness of a Release is also damaging to 3GPP.

The September 2001 Plenary meeting was suggested as a good time to analyse data collected on problems and status of each work item in order to have time to take necessary action to correct the schedule. The data should be collected by A Sultan, MCC and provided to the e-mail list by the first week of September. All Groups were asked to look for dependencies on other work in order to determine the critical path and problems in the completion of the work. All WGs were also asked to provide revised dates (using Calendar dates) for update to the Work Plan and to request their Rapporteurs to provide realistic time scales for the completion of their respective documents, to be collected by A Sultan by the end of August 2001.

TD SP-010393 Summary of Content of Rel-4 and foreseen content of Rel-5. This was provided for information and was noted.

8.9 Beyond Current work plan (Vision, Phasing etc.)

TD SP-010295 Release Planning. This was presented by BT and provided a high-level analysis of the current Releases of 3GPP Specifications and proposes a framework for planning future Releases. A companion contribution was provided in TD SP-010296.

TD SP-010296 High-level Objectives for Releases 6 and 7. This was presented by BT, as a companion contribution to TD SP-010295 and provided some specific proposals for the content and timing of releases beyond Release 5 - Releases 6 and 7.

The TSG SA Chairman stated that as the project is run in terms of Releases, calendar dates should not be used directly as targets, although it was recognised that yearly Releases were a convenient way of scheduling Releases. It was also recognised that the timing and content of Releases needs to be carefully planned, as each Major Release requires effort to "clean up" the specifications via the CR mechanism after the freezing, and the impact of this work on the preparation of the following Release needs to be taken into account.

A concern was expressed on introducing another layer into the Work Plan structure, and the Feature-Building Block-Work Task structure should not be expanded. A Major enhancement corresponding to a Feature and Minor to a Building Block.

BT requested that planning of the content of Releases should be done well in advance, i.e. SA WG1 and SA WG2 should provide requirements of future Releases, rather than spending all their time on a current Release, so that the requirements are available in good time for the other groups to produce their specifications.

It was agreed that the documents provided useful input for discussion and that Members should concentrate on providing input to the content of Future Releases.

TD SP-010391 Agenda and scope for the "3GPP Future Evolution Workshop". This was presented by Nokia and provided details of a 3GPP Future Evolution Workshop, which Nokia volunteered to host and arrange. The workshop is intended to concentrate on such standardisation topics that could be completed within 2-4 years. The Workshop was arranged for 18 - 19 October 2001, in Helsinki, Finland. It was clarified that the Workshop would be contribution-driven and concentrate on technical topics rather than political issues. It was reported that the dates are the same as RAN WG2 and RAN WG3 meetings. As there was no possibility of moving any of the meeting dates without overlapping other meetings, and the dates had been agreed at TSG SA#11, there was no changes made to the proposed dates.

This was a common problem, and the TSG SA Chairman suggested that some days are reserved in the Spring and Autumn which could be used for such Workshops, and WGs should avoid holding their meetings during these dates.

The agenda provided in the document was agreed as a draft agenda for the workshop and the dates and venue noted.

8.10 Other issues

There was no discussion under this agenda item.

9 Project Management

9.1 Review of work programme

This was dealt with under agenda items 8.6 and 8.8.

9.2 Working methods

TD SP-010280 Spec numbers and titles. This was provided for information and was noted. Comments should be forwarded to J. Meredith for correction.

TD SP-010387 Isolated Impact CRs. This was presented by the TSG RAN Chairman and proposes a new term, “Isolated Impact”, and gives its definition. This was introduced after discussions in TSG RAN on backwards compatibility of important changes made to a specification, which needs to be corrected in specifications of a frozen Release. This document was noted and the term should be filled in on CR cover sheets when necessary.

9.3 Other issues

There was no discussion under this agenda item.

10 Project support

TD SP-010388 Report of Support Team activities. This was presented by Mr. A Scrase, MCC and provided information on the activities of MCC since TSG#11. Statistics on the implementation of CRs was also provided.

A request was made that MCC send out a list of specifications available at each of the CR implementation deadlines, to inform delegates of the new specifications available.

Qualcomm requested was made for a DVD or CD-ROM containing the 3GPP documents. Mr. Scrase replied that he had asked TSG SA in previous meetings and received little response in favour of producing this. It could be made at cost price, if there was enough demand to produce the disks. Motorola, Alcatel and Vodafone voiced support for the production of CD-ROMs or DVDs.

The use of a web "Portal" was questioned. It was reported that MCC are looking ito the development of a Portal for the 3GPP web site.

WGs were reminded about not holding meetings a week before or after the TSG Plenary weeks. It was commented that it should be recognised that it is then difficult to fit the WG meetings in between the TSG meetings and the reduction from 4 to 3 meetings per year was suggested. The 3GPP Chairs and Vice Chairs discussed this at their co-ordination meeting and there were concerns about the long delay that there would be between updates to the specification set, which could cause problems when correcting urgent errors. Vodafone requested that the reduction of meeting frequency should be considered for 2003. This request was noted.

Delegates were reminded that the 3GPP TSG Plenaries will be all Radio LAN from 2002, and they should ensure that they are equipped with working and tested Wireless LAN cards before March 2002.

The TSG SA Chairman thanked all MCC members for their work in preparation and follow-up of the 3GPP meetings and the report was noted.

TD SP-010390 Electronic Working at meetings. This was presented by Mr. K. Holley and gives information on the electronic working experienced and ideas for future support of servers and LANs, including some useful software tools which aid the access to server documents. Delegates were encouraged to try out the ftp access available at this meeting. The presentation was then noted.

11 Postponed issues from earlier in the meeting

There were no postponed issues.

12 Work plan and future meetings

3G Evolution Workshop: 18-19 October 2001, Helsinki, Finland, Hosted by Nokia

Meeting	2001	Location	Primary Host
TSG#13	18 – 27 September	Beijing	Lucent/CWTS
TSG#14	11 - 20 December	Kyoto	ARIB/TTC
Meeting	**2002**	**Location**	**Primary Host**
TSG#15	5 – 14 March	Korea	TTA
TSG#16	4 –13 June	Marco Island, FL, USA	Motorola
TSG#17	3 – 12 September	France	Alcatel
TSG#18	3 – 12 December	USA	NA 'Friends of 3GPP'
Meeting	**2003**	**Location**	**Primary Host**
TSG#19	March (tba)	UK	UK 'Friends of 3GPP'
TSG#20	June (tba)	Finland	Nokia

Full details may be obtained via the 3GPP website (http://www.3gpp.org)

13 Any other business

There were no issues raised under this agenda item.

14 Close of meeting

The TSG SA Chairman outlined the achievements at the meeting. and thanked Ericsson for hosting the meeting, the secretarial support for helping to ensure a well-run meeting, Telia for the hosting of the social event, and the delegates for their hard work, and closed the meeting.

Annex A: Co-ordinates of TSG and WG Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG SA Officials:						
Chairman	Niels Andersen	MOTOROLA	npa001@email.mot.com	+45 43 48 81 10	+45 43 48 80 01	+45 4018 4793
Vice Chairman	Gary Jones	VoiceStream	gary.jones@voicestream.com	+1 301 951 2524	+1 703 715 2365	+1 201486 0949
Vice Chairman	Hiroshi Nakamura	NTT DoCoMo	naka@docomo.fr	+33 1 56 88 30 30	+33 1 56 88 30 45	
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	Kevin Holley	BT	kevin.holley@bt.com	+44 1473 605604	+44 1473 623794	
Vice Chairman	Randolph Wohler	Pacific Bell Wireless	rwohlert@tri.sbc.com	+1 512 372 5838	+1 512 372 5891	
Vice Chairman	Tommi Kokkola	Nokia Corporation	tommi.kokkola@nokia.com	+358 40 50 40 734	+358 9 511 68080	+358 40 50 40 734
Secretary	Michael Clayton	3GPP Support Team	michael.clayton@etsi.fr	+33 4 92 94 4228	+33 4 92 38 5228	+33 6 74 40 83 68
TSG SA WG2 Officials:						
Chairman	Mikko Puuskari	Nokia	mikko.puuskari@nokia.com	+358 9 43 761	+358 9 43 76 6856	+358 40 528 8283
Vice Chairman	Akishige Noda	Fujitsu	aki.noda@jp.fujitsu.com	+81 44 75 44 196	+81 44 75 44 147	
Vice Chairman	Bonnie Chen	Motorola	BCHEN1@motorola.com	+1 847 435 2699	+1 847 632 6299	
Secretary	Alain Sultan	3GPP Support Team	alain.sultan@etsi.fr	+33 4 92 94 42 71	+33 4 92 38 5271	+33 67 440 8370
TSG SA WG3 Officials:						
Chairman	Michael Walker	Vodafone	mike.walker@vodafone.com	+44 1635 673 886	+44 1635 31127	+44 385 277 687
Vice Chairman	Valtteri Niemi	Nokia	valtteri.niemi@nokia.com	+358 50 48 37327	+358 9 4376 6850	
Vice Chairman	Michael Marcovici	Lucent Technologies	marcovici@lucent.com	+1 630 979 4062	+1 630 224 9955	
Secretary	Maurice Pope	3GPP Support Team	maurice.pope@etsi.fr	+33 4 92 94 4259	+33 4 92 38 5259	
TSG SA WG4 Officials:						
Chairman	Kari Jarvinen	Nokia	kari.ju.jarvinen@nokia.com	+358 3272 5854	+358 3272 5888	+358 50 555 0999
Vice Chairman	Hiroyuki Yamaguchi	NTT DoCoMo	hyama@spg.yrp.nttdocomo.co.jp	+81 468 40 3512	+81 468 40 3788	
Vice Chairman	Vacancy					
Secretary	Paolo Usai	3GPP Support Team	paolo.usai@etsi.fr	+33 4 92 94 42 36	+33 4 92 38 5206	+33 6 74 40 83 73
TSG SA WG5 Officials:						
Chairman	Albert Yuhan	VoiceStream Wireless	albert.yuhan@voicestream.com	+1 973 290 2665	+1 973 290 2575	
Vice Chairman	Michael Truss	Motorola	Michael.Truss@motorola.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:						
Chairman	Stephen Hayes	Ericsson	stephen.hayes@ericsson.com	+1 972 583 5773	+1 972 644 3036	
Vice Chairman	Ian Park	Vodafone	ian.park@vf.vodafone.co.uk	+44 1635 673 527	+44 1635 233 562	
Vice Chairman	Kunihiko Taya	NEC				
Secretary	David Boswarthick	3GPP Support Team	david.boswarthick@etsi.fr	+33 4 92 94 42 78	+33 4 93 65 28 17	
TSG CN WG1 Officials:						
Chairman	Hannu Hietalahti	Nokia	hannu.hietalahti@nokia.com	+358 40 502 1724	+358 10 505 7999	
Vice Chairman	Andrew Howell	Motorola Ltd	andrew.howell@motorola.com	+44 1256 790 170	+44 1256 790 190	+44 77 85 363 850
Vice Chairman	Vacancy					
Secretary	Per J. Jorgensen	3GPP Support Team	PerJohan.Jorgensen@etsi.fr	+33 4 92 94 42 31	+33 4 93 65 28 17	
TSG CN WG2 Officials:						
Chairman	Keijo Palviainen	NOKIA	keijo.palviainen@nokia.com	+358 9 511 69669	+358 9 5112 9253	
Vice Chairman	Michel Grech	Lucent Technologies N. S. UK	grech@lucent.com	+44 1793 736 110	+44 1793 883 815	
Vice Chairman	Vacancy					
Secretary	Andrijana Jurisic	3GPP Support Team	andrijana.jurisic@etsi.fr	+33 4 92 94 42 78		
TSG CN WG3 Officials:						
Chairman	Norbert Klehn	Siemens	norbert.klehn@icn.siemens.de	+49 30 386 290 90	+49 30 386 44255	
Vice Chairman	Achim Braun	Alcatel	achim.braun@alcatel.de	+49 711 8214 1817	+49 711 8214 1177	
Vice Chairman	Vacancy					
Secretary	David Boswarthick	3GPP Support Team	david.boswarthick@etsi.fr	+33 4 92 94 42 78	+33 4 93 65 28 17	
TSG CN WG4 Officials:						
Chairman	Yun-Chao Hu	Ericsson	yun-chao.hu@ericsson.co.jp	+81 3 5216 9085	+81 3 5216 9047	
Vice Chairman	Teemu Mäkinen	Nokia	Teemu.Makinen@nokia.com	+358 405 077 283	+358 9 511 232 07	
Vice Chairman	Vacancy					
Secretary	Kimmo Kymalainen	3GPP Support Team	kimmo.kymalainen@etsi.fr	+33 4 92 94 42 38	+33 4 93 65 28 17	
TSG CN WG5 Officials:						
Chairman	Lucas Klostermann	ERICSSON L.M	Lucas.Klostermann@eln.ericsson.se	+31 161 299 057	+31 161 247 742	
Vice Chairman	Chelo Abarca	ALCATEL France	chelo.abarca@ms.alcatel.fr	+33 1 69 63 14 11	+33 1 69 63 17 89	
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.3 TSG RAN Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG RAN Officials:						
Chairman	Francois Courau	Alcatel	francois.courau@alcatel.fr	+33 1 30 77 94 68	+33 1 30 67 94 30	+33 6 08 82 20 22
Vice Chairman	Donald Zelmer	Bell South	Don_Zelmer@bscc.bls.com	+1 404 249 3689	+1 404 249 5157	
Vice Chairman	Eisuke FUKUDA	Fujitsu				
Secretary	Hans van der Veen	3GPP Support Team	Hans.vanderVeen@etsi.fr	+33 4 92 94 42 61	+33 4 92 38 49 46	+33 6 74 40 83 64
TSG RAN WG1 Officials:						
Chairman	Antti Toskala	Nokia	Antti.Toskala@nokia.com	+358 9 511 38221	+358 9 511 38452	
Vice Chairman	Masafumi Usuda	NTT DoCoMo				
Vice Chairman	Hyeon Woo Lee	Samsung Electronics				
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 87	+33 1 39 44 50 12	
Vice Chairman	Francesco Grilli	Qualcomm Europe				
Vice Chairman	Vacancy					
Secretary	Hans van der Veen	3GPP Support Team	Hans.vanderVeen@etsi.fr	+33 4 92 94 42 61	+33 4 92 38 49 46	+33 6 74 40 83 64
TSG RAN WG3 Officials:						
Chairman	Martin Israelsson	Ericsson	martin.israelsson@era.ericsson.se	+46 8 7641199	+46 8 58530800	+46 702670120
Vice Chairman	Jim Miller	InterDigital	jim.miller@interdigital.com	+1 516 622 4071	+1 516 622 0100	
Vice Chairman	Chenghock Ng	NEC	ngcheng@mcs.abk.nec.co.jp	+81 471 85 7167		
Secretary	Carolyn Taylor	3GPP Support Team	carolyn.taylor@etsi.fr	+33 4 92 94 43 52	+33 4 93 65 28 17	
TSG RAN WG4 Officials:						
Chairman	Howard Benn	Motorola	bennh@ecid.cig.mot.com	+44 1 793 566266	+44 1 793 566225	
Vice Chairman	Takaharu Nakamura	Fujitsu / ARIB	poco@flab.fujitsu.co.jp	+81 44 754 3850		
Vice Chairman	Vacancy					
Secretary	Cesar Gutierrez	3GPP Support Team	cesar.gutierrez@etsi.fr	+33 4 92 94 43 21	+33 4 92 38 52 59	
3GPP Ad-hoc group on ITU (internal) co-ordination:						
Contact person	Nicola Magnani	CSELT	nicola.magnani@cselt.it	+39 011 228 7089	+39 011 228 5295	

A.4 TSG T Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG T Officials:						
Chairman	Sang-Keun Park	Samsung	skpark@khgw.info.samsung.co.kr	+82 331 280 9835	+82 331 280 1660	
Vice Chairman	Ed Ehrlich	Nokia	ed.ehrlich@nokia.com	+1 972 894 4495	+1 972 894 5525	
Vice Chairman	Kevin Holley	BT	kevin.holley@bt.com	+44 1473 605604	+44 1473 623794	
Secretary	Michael Sanders	3GPP Support Team	michael.sanders@etsi.fr	+33 4 9294 4290	+33 4 92 38 5290	
TSG T WG1 Officials:						
Chairman	Bjarke Nielsen	Qualcomm	bnielsen@qualcomm.com	+49 89 7414 0806	+49 8442 916 349	+49 170 5488 456
Vice Chairman	Peter George	Anritsu UK	peterg@anritsu.co.uk	+44 143 874 0011	+44 143 874 0202	
Vice Chairman	Hisashi Nakagomi	NTT DoCoMo	hisashi@cet.yrp.nttdocomo.co.jp	+81-468-40-3100	+81-468-40-3733	
Secretary	Lidia Salmeron	3GPP Support Team	lidia.salmeron@etsi.fr	+33 4 92 94 43 49	+33 4 93 65 28 17	
TSG T WG2 Officials:						
Chairman	Kevin Holley	BT	kevin.holley@bt.com	+44 1473 605604	+44 1473 623794	
Vice Chairman	Peter Neumann	Siemens	peter.neumann@mch.siemens.de	+49 89 72 23 67 18	+49 89 72 23 70 78	
Vice Chairman	Toshihiro Shimizu	Matsushita Communication	toshi.shimizu@mci.co.uk	+44 16 35 87 04 66	+44 16 35 87 13 45	
Secretary	Friedhelm Rodermund	3GPP Support Team	friedhelm.rodermund@etsi.fr	+33 4 92 94 43 24	+33 4 93 65 28 17	
TSG T WG3 Officials:						
Chairman	Klaus Vedder	Giesecke & Devrient	klaus.vedder@gdm.de	+49 89 4119 1542	+49 89 4119 1540	
Vice Chairman	Nigel Barnes	Motorola	nigel.barnes@motorola.com	+44 1256 790 169		
Vice Chairman	Paul JOLIVET	DoCoMo Europe	jolivet@docomo.fr			
Secretary	Michael Sanders	3GPP Support Team	michael.sanders@etsi.fr	+33 4 9294 4290	+33 4 92 38 5290	

A.5 TSG GERAN Officials

Position	Name	Company	e-mail	Telephone	Fax	(Mobile Tel.)
TSG GERAN Officials:						
Convenor	Niels Andersen	MOTOROLA	npa001@email.mot.com	+45 43 48 81 10	+45 43 48 80 01	+45 4018 4793
Vice Chairman	Michael Färber	Siemens	michael.faerber@icn.siemens.de	+49 89722 24935	+49 89722 24450	+49 171 334 0786
Vice Chairman	Marc Grant	SBC Communications	marc.grant@sbc.com	+1 512 372 5834	+1 512 372 5891	+1 925 3477
Secretary	Paolo Usai	3GPP Support Team	paolo.usai@etsi.fr	+33 4 92 94 42 36	+33 4 92 38 5206	+33 6 74 40 83 73
TSG GERAN WG1 Officials:						
Convenor	Niels Andersen	MOTOROLA	npa001@email.mot.com	+45 43 48 81 10	+45 43 48 80 01	+45 4018 4793
Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
Secretary	Paolo Usai	3GPP Support Team	paolo.usai@etsi.fr	+33 4 92 94 42 36	+33 4 92 38 5206	+33 6 74 40 83 73
TSG GERAN WG2 Officials:						
Chairman	Bruno Landais	Alcatel France	Bruno.Landais@alcatel.fr	+33 6 70 03 20 65	+33 1 30 77 94 30	
Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
Secretary	Gert Thomasen	3GPP Support Team	gert.thomasen@etsi.fr	+33 4 92 94 43 84	+33 4 93 65 28 17	
TSG GERAN WG3 Officials:						
Chairman	Äke Busin	Ericsson	ake.busin@era.ericsson.se	+46 8 757 2231	+46 8 404 5590	+46 8 757 2231
Vice Chairman	Vacancy					
Vice Chairman	Vacancy					
Secretary	Friedhelm Rodermund	3GPP Support Team	friedhelm.rodermund@etsi.fr	+33 4 92 94 43 24	+33 4 93 65 28 17	
TSG GERAN WG4 Officials:						
Chairman	Jean-Marc Recouvreux	Alcatel	jean-marc.recouvreux@alcatel.fr	+33 1 55 66 33 87	+33 1 55 66 64 02	
Vice Chairman	Tim Beard	Anite	tim.beard@anitetelecoms.com	+44 1252 775 337	+44 1252 775 299	
Vice Chairman	Vacancy					
Secretary	Lidia Salmeron	3GPP Support Team	lidia.salmeron@etsi.fr	+33 4 92 94 43 49	+33 4 93 65 28 17	

Annex B: List of documents

Number	Title	Source	Agenda item	Document for	Replaced by
SP-010220	Draft Agenda for meeting #12	SA Chairman	2	Approval	
SP-010221	Draft report of TSG SA Meeting #11 - version 0.0.6	SA Secretary	3	Approval	
SP-010222	Liaison Statement reply to " LS on consistent description regarding the use of Charging Characteristics"	CN WG4	6.1	Information	
SP-010223	Liaison Statement reply to RAN3 on on Highlighting Requirements to RAN3 for SRNS relocation with TrFO	CN WG4	6.1	Discussion	
SP-010224	LS on consistent description regarding the use of Charging Characteristics	SA WG5	7.5.2	Information	
SP-010225	LS reply to SA1 LS "regarding User Profile"	SA WG5	7.5.2	Information	
SP-010226	IMT2000 Management Co-operation	SA WG5	7.5.2	Information	
SP-010227	LS on terminology clarifications	GERAN	8.4	Discussion	
SP-010228	LS in reply to three related User Equipment Management liaisons	SA WG5	7.5.2	Information	
SP-010229	LS regarding User Profile	SA WG1	7.1.2	Information	
SP-010230	Status report from SA WG5 to SA#12	SA WG5	7.5.1	Information	
SP-010231	Rel4 CRs to 3G Telecom Management principles and high level requirements (32.101)	SA WG5	7.5.3	Decision	
SP-010232	Rel4 CRs to 3G Telecom Management Architecture (32.102)	SA WG5	7.5.3	Decision	
SP-010233	Management Level Procedures and Interaction with UTRAN (Rel4 TR 32.800 V1.0.0)	SA WG5	7.5.3	Decision	
SP-010234	Work Item Description for New Rel5 Feature on "User Equipment (UE) Management"	SA WG5	7.5.3	Decision	
SP-010235	R99 CRs to Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain (32.015)	SA WG5	7.5.3	Decision	
SP-010236	Four (4) New Draft specifications on Charging Release 4- (Drafts V1.x.y of 32.200, 32.205, 32.215 and 32.235)	SA WG5	7.5.3	Information	
SP-010237	Rel4 CR to Telecommunication Management; Performance Management (PM) (32.104)	SA WG5	7.5.3	Decision	
SP-010238	Work Item Description: Rel5 Performance Management (Building Block: OAM-PM)	SA WG5	7.5.3	Decision	
SP-010239	R99 CR to Fault Management; Part 3: Alarm Integration Reference Point: CORBA Solution Set Version 1:1 (32.111-3)	SA WG5	7.5.3	Decision	
SP-010240	Presentation of SA1 to SA #12	SA WG1 Chairman	7.1.1	Information	
SP-010241	Status report of SA1 to SA #12	SA WG1 Chairman	7.1.1	Information	
SP-010242	CRs to 22.003 and 22.100 on Fax for R99	SA WG1	7.1.3	Approval	
SP-010243	CRs to 22.003 on Removal of Voice Group Service for R99 and Rel-4	SA WG1	7.1.3	Approval	
SP-010244	CRs to 22.011 R99 and Rel-4 on Background Scanning, Partial PLMN Access and Periodic Network selection	SA WG1	7.1.3	Approval	
SP-010245	CR to 22.129 Rel-4 on Inter PLMN handover	SA WG1	7.1.3	Approval	
SP-010246	Various CRs to 22.228 Rel-5 on IMS	SA WG1	7.1.3	Approval	
SP-010247	CR TS 22.121 Rel-5 to update Release 5 TS	SA WG1	7.1.3	Approval	
SP-010248	Various CRs to 22.127 Rel-4 and Rel-5	SA WG1	7.1.3	Approval	
SP-010249	CRs to 22.078 R99 and Rel-4 on Clarification of PDP context QoS change notification to the CSE (CAMEL3)	SA WG1	7.1.3	Approval	
SP-010250	CRs to 22.078 R99, Rel-4 and Rel-5 on "Clarification of CUG requirements"	SA WG1	7.1.3	Approval	
SP-010251	Various CRs to 22.078 Rel-5 (CAMEL Phase 4)	SA WG1	7.1.3	Approval	
SP-010252	CR to 22.101 on Re-introduction of Service Provider Name Indication in Release 99	SA WG1	7.1.3	Approval	
SP-010253	CRs to 22.101 Rel-4 and Rel-5 on Clarification of PLMN Name Indication and Service Provider Name Indication feature.	SA WG1	7.1.3	Approval	
SP-010254	CR to 22.101 Rel-4 on Removal of Service Provider Name graphic format from Rel-4	SA WG1	7.1.3	Approval	
SP-010255	CRs to 22.101 Rel-4 and Rel-5 on Addition of a Streaming paragraph	SA WG1	7.1.3	Approval	
SP-010256	CRs to 21.905 Rel-4 on Vocabulary	SA WG1	7.1.3	Approval	
SP-010257	CR to 22.002 Rel-4 on Corrections to erroneous CRs SP-010039 and SP-010040 to 22.002.	SA WG1	7.1.3	Approval	
SP-010258	CRs to 21.905 and 22.101 on Subscription and Provisioning for Rel-5	SA WG1	7.1.3	Approval	
SP-010259	CR to 22.082 Rel-4 on Clarification of CPHS CFU Indication	SA WG1	7.1.3	Approval	

Number	Title	Source	Agenda item	Document for	Replaced by
SP-010260	CR to 22.115 Rel-5 on Introduction of online charging for prepaid services	SA WG1	7.1.3	Approval	
SP-010261	CR to 22.038 on Indication of Key identification	SA WG1	7.1.3	Approval	
SP-010262	CRs to 22.101 Rel-4 and Rel-5 on Replacement of references to 23.121 for R4 onwards	SA WG1	7.1.3	Approval	
SP-010263	CRs to 22.101 Rel-4 and Rel-5 on CS Multimedia fallback to speech	SA WG1	7.1.3	Approval	
SP-010264	CRs to 22.001, 22.105 and 22.129 on Removal of features due to deletion of the workitem on “Bearer modification without pre-notification” from Rel-4	SA WG1	7.1.3	Approval	
SP-010265	TS 22.141 version 2.0.0 on Presence Service for approval	SA WG1	7.1.3	Approval	SP-010364
SP-010266	TS 22.226 version 2.0.0 on Global Text Telephony for approval	SA WG1	7.1.3	Approval	
SP-010267	TR 22.946 version 1.0.0 on Broadcast and Multicast Services for information	SA WG1	7.1.3	Information	
SP-010268	WIs for approval from SA1	SA WG1	7.1.3	Approval	SP-010375
SP-010269	LS on Terminal Capabilities	SA WG1	7.1.3	Approval	
SP-010270	Reserved SA WG1	SA WG1			
SP-010271	Reserved SA WG1	SA WG1			
SP-010272	Reserved SA WG1	SA WG1			
SP-010273	CR 005 to 21.101 Release 1999: Correction to list of specifications	MCC	8.6	Approval	SP-010379
SP-010274	CR 001 to 21.102 Release 4: Correction to list of specifications	MCC	8.6	Approval	SP-010380
SP-010275	3GPP TS 21.103 v0.0.0: "3rd Generation mobile system Release 5 specifications"	MCC	8.8	Information	SP-010381
SP-010276	CR 002 to 01.01 Release 1999: Correction to list of specifications	MCC	8.6	Approval	SP-010382
SP-010277	CR 001 to 41.102 Release 4: Correction to list of specifications	MCC	8.6	Approval	SP-010383
SP-010278	3GPP TS 41.103 v0.0.0: "GSM Release 5 specifications"	MCC	8.8	Information	SP-010384
SP-010279	Specifications status prior to TSGs#12	MCC	10	Information	
SP-010280	Spec numbers and titles	MCC	8.9	Information	
SP-010281	Reply to “LS on Extended Streaming Service” and “LS regarding User Profile"	SA WG4	7.4.1	Information	
SP-010282	Rel4 CRs to Fault Management; (32.111-series)	SA WG5	7.5.3	Decision	
SP-010283	Configuration Management - Rel4 reorganisation & add Bulk CM	SA WG5	7.5.3	Decision	
SP-010284	R99 CRs to Configuration Management; (32.106-series)	SA WG5	7.5.3	Decision	
SP-010285	Two (2) New Draft specifications on Generic IRP Management; (32.112-series)	SA WG5	7.5.3	Decision	
SP-010286	Proposed WID for "User Equipment (UE) Management (Feature) Feasibility Study" (revision of SP-010234)	SA5 Chairman		Approval	
SP-010287	not allocated				
SP-010288	not allocated				
SP-010289	not allocated				
SP-010290	MCC review of the Work Plan	MCC (A Sultan)	9.1		SP-010395
SP-010291	Work Plan version June 11th	MCC (A Sultan)	9.1		
SP-010292	Policy Considerations for Release 5	Vodafone	7.8	Decision	
SP-010293	Wideband AMR Policy	Vodafone	7.1	Decision	
SP-010294	Report from the UMTS Forum: Workshop on Assessing the Requirements for Deploying 3G Services	Chair UMTS Forum 3GPP Co-ordination Group	6.3	Information	
SP-010295	Release Planning	BT	8.9	Discussion	
SP-010296	High-level Objectives for Releases 6 and 7	BT	8.9		
SP-010297	LS from GSM Association on M-Services Initiative	GSM Association	6.2	Discussion	
SP-010298	Liaison statement on Change Request numbering	TSG RAN	6.1	Discussion	
SP-010299	Liaison statement to ECTRA and 3GPP on Mobile Virtual Network Operators	TSG CN (SPAN11 WP NAR)	6.3	Discussion	
SP-010300	not allocated		6.3		
SP-010301	TSG S4 Status Report at TSG-SA#12	SA WG4 Chairman	7.4.1	Information	
SP-010302	Preliminary Draft 3GPP TR 26.976 version 0.3.0 "AMR-WB Speech Codec Performance Characterization v 0.3.0" (Release 5)	SA WG4	7.4.3	Information	
SP-010303	CRs to TS 06.10 and TS 46.010 on Correction of Fig. 3.2 (from Phase 2 to Release 4)	SA WG4	7.4.3	Approval	
SP-010304	CRs to TS 06.12 and TS 46.012 on Corrections of the formula for averaging Xmax (from Phase 2 to Release 4)	SA WG4	7.4.3	Approval	

Number	Title	Source	Agenda item	Document for	Replaced by
SP-010305	CRs to TS 26.101 on Correction to SID Frame Mapping (R99 and Release 4)	SA WG4	7.4.3	Approval	
SP-010306	CRs to TS 26.104 Corrections encoder-decoder operations AMR-NB floating point (R99 and Release 4)	SA WG4	7.4.3	Approval	
SP-010307	CRs to TS 26.173 on AMR-WB Fixed codebook initialisation (Release 5)	SA WG4	7.4.3	Approval	
SP-010308	CRs to TS 26.174 on Update of AMR-WB codec test sequences after CRs to TS 26.173 (Release 5)	SA WG4	7.4.3	Approval	
SP-010309	CRs to TS 26.235 on Update of AMR-NB and AMR-WB RTP payload (Release 4)	SA WG4	7.4.3	Approval	
SP-010310	CR to 28.062 on Reference to a deleted TFO message (Rel-4)	SA WG4	7.4.3	Approval	
SP-010311	Work Item Description on Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E)	SA WG4	7.4.3	Approval	SP-010392
SP-010312	SA WG3 Status Report to SA#12	SA WG3 Chairman	7.3.1	Information	
SP-010313	2 CRs to 33.102: Correction to periodic local authentication (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010314	2 CRs to 33.102: Correction to COUNT-C description (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010315	1 CR to 33.102: Include reference to TS 43.041 GERAN Stage 2 specification (Rel-5)	SA WG3	7.3.3	Approval	
SP-010316	2 CRs to 33.102: Calculation and Wrap-around of START value (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010317	2 CRs to 33.102: Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010318	IETF/3GPP report	IETF Liaison Officer	6.2	Discussion	
SP-010319	2 CRs to 33.102: THRESHOLD Check at RRC connection establishment (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010320	2 CRs to 33.103: The multiplicity of Data integrity symbols (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010321	2 CRs to 33.105: Deletion of the maximum size of a RRC message (R99, Rel-4)	SA WG3	7.3.3	Approval	
SP-010322	TS 33.200 version 2.0.0 "3G Security; Network Domain Security; MAP application layer security (Release 4)"	SA WG3	7.3.3	Approval	
SP-010323	WI Description: Access security for IP-based services	SA WG3	7.3.3	Approval	
SP-010324	WI Description: Security Aspects of Requirement for Network Configuration Independence	SA WG3	7.3.3	Approval	
SP-010325	WI Description: Network Domain Security; MAP application layer security (NDS/MAPsec) (formerly known as MAP application layer protection)	SA WG3	7.3.3	Approval	
SP-010326	WI Description: Network Domain Security; IP network layer security (NDS/IP) (formerly known as Network Domain Security)	SA WG3	7.3.3	Approval	
SP-010327	WI Description: Revised MExE Security Analysis Activity WID	SA WG3	7.3.3	Approval	
SP-010328	S2 report to SA#12	SA WG2	7.2.1	Information	
SP-010329	CRs on 23.002	SA WG2	7.2.3	Approval	
SP-010330	CRs on 03.60 and 23.060	SA WG2	7.2.3	Approval	
SP-010331	CRs on 23.107	SA WG2	7.2.3	Approval	
SP-010332	CRs on 23.127	SA WG2	7.2.3	Approval	
SP-010333	CRs on 23.221	SA WG2	7.2.3	Approval	
SP-010334	CRs on 03.71, 23.171 and 23.271	SA WG2	7.2.3	Approval	SP-010371
SP-010335	CRs on 23.228	SA WG2	7.2.3	Approval	
SP-010336	TS 23.226 v.2.0.0 (GTT Stage 2)	SA WG2	7.2.3	Approval	
SP-010337	TS 23.207 v.2.0.0 (End to End QoS)	SA WG2	7.2.3	Approval	
SP-010338	TR 23.236 v.1.0.0 (Iu-flex)	SA WG2	7.2.3	Approval	
SP-010339	Revised WID on IMS	SA WG2	7.2.3	Approval	
SP-010340	Revised WID on GTT	SA WG2	7.2.3	Approval	SP-010370
SP-010341	Revised WID on LCS	SA WG2	7.2.3	Approval	
SP-010342	Revised WID on QoS for Rel 4 (for clarification)	SA WG2	7.2.3	Approval	
SP-010343	WID on QoS for Rel5	SA WG2	7.2.3	Approval	
SP-010344	Draft summary minutes, decisions and actions from 3GPP PCG Meeting#6, Sophia Antipolis, 10 April 2001	PCG Secretary	6.2	Information	
SP-010345	Draft summary minutes, decisions and actions from 3GPP Organizational Partners Meeting#5, Sophia Antipolis, 11 April 2001	OP Secretary	6.2	Information	
SP-010346	Requirements for Emergency Calls in IMS	Vodafone Group plc.	7.1	Decision	
SP-010347	Summary of editor's notes in TS 33.200 v2.0.0	SA WG3 Chairman	7.3.3	Information	
SP-010348	Reports of SA WG3 ad-hoc and joint meetings since SA#11	SA WG3	7.3.1	Information	
SP-010349	LS from SA WG3: Security and UE functionality split	SA WG3	7.3.2	Information	

Number	Title	Source	Agenda item	Document for	Replaced by
SP-010350	TR-45 / 3GPP Joint AKA Control	SA WG3	7.3.2	Information	
SP-010351	Co-ordination of SDO input to ITU-T Q.REF-1	3GPP TSG CN	6.1	Information	
SP-010352	Report from IPNG WG Interim Meeting May 30 – June 1, 2001	Nokia	6.3	Information	
SP-010353	CN#12 Status Report	3GPP TSG CN	6.1	Information	
SP-010354	CN#12 Status Report (Word Version)	3GPP TSG CN	6.1	Information	
SP-010355	Draft Report of the GTT Workshop	Secretary, Maurice Pope, MCC	6.2	Comment	
SP-010356	Response to SA1 LS	TSG SA WG2	7.2.3		
SP-010357	Response LS to S1 LS Regarding User Profiles	TSG SA2	7.2.3		
SP-010358	3GPP TSG T#12 Status report	TSG T Chairman	6.1	Information	
SP-010359	IP Based Multimedia Services Framework TS 22.941, Version 0.2.4	SA1 Chairman	7.1.2	Information	
SP-010360	LS from T3 on Rejection of 2G Authentication and Key Agreement by 3G ME with USIM in UTRAN	T3 (T3-010379	8.3.1	Discussion	
SP-010361	LS reply to SA1, SA3, T3 cc SA, SA2, SA4, T, CN1 on UE Split	3GPP TSG T2	8.3.1	Information	
SP-010362	LS to SA1 cc SA2, SA on push services	3GPP TSG T2	8.3.1	Information	
SP-010363	LS to ECMA TC32 cc SA on ECMA QSIG Standard	3GPP TSG T2	8.3.1	Information	
SP-010364	TS 22.141 version 1.0.0 on Presence Service	SA WG1	7.1.3	Information	
SP-010365	LS Indication of Extended uplink TBF capability	3GPP TSG CN WG1	8.1.1	Discussion	
SP-010366	LS Request for information from GSM Europe on 3 digit MNC	3GPP TSG CN WG1	8.1.1	Discussion	
SP-010367	Liaison Statement on Adding New Definitions to 21.905	3GPP TSG_CN WG1	8.1.1	Discussion	
SP-010368	LS on Requirements on UE positioning	TSG-RAN WG2	8.2.1	Discussion	
SP-010369	Withdrawn CR 22.226 V.1.0.1 on GTT	Ericsson	7.1.3	Approval	Withdrawn
SP-010370	Revised WID on GTT	SA WG2	7.2.3	Approval	
SP-010371	CRs on 03.71, 23.171 and 23.271	SA WG2	7.2.3	Approval	
SP-010372	Clarifications on S2 open CRs	SA WG2	7.2.3	Approval	
SP-010373	Review of UTRAN O&M Procedures TR32.800	TSG RAN WG3	8.2.1	Discussion	
SP-010374	CR to 33.107 Update of 33.107 to include Release 5 requirements	SA3	7.3.3		
SP-010375	WIs for approval from SA1	SA WG1	7.1.3	Approval	
SP-010376	GERAN status Report	GERAN Chairman	8.4.1	Information	
SP-010377	LS on GPRS issues	GSM Association TWG	6.3	Discussion	
SP-010378	CR 26.235-002 on Applicability of TS 26.235 to GERAN (FFS) (REL-5)	TSG-SA WG4	7.4.3	Approval	
SP-010379	CR 005 to 21.101 Release 1999: Correction to list of specifications	MCC	8.6	Approval	
SP-010380	CR 001 to 21.102 Release 4: Correction to list of specifications	MCC	8.6	Approval	SP-010396
SP-010381	3GPP TS 21.103 v0.0.0: "3rd Generation mobile system Release 5 specifications"	MCC	8.8	Information	
SP-010382	CR 002 to 01.01 Release 1999: Correction to list of specifications	MCC	8.6	Approval	
SP-010383	CR 001 to 41.102 Release 4: Correction to list of specifications	MCC	8.6	Approval	
SP-010384	3GPP TS 41.103 v0.0.0: "GSM Release 5 specifications"	MCC	8.8	Information	
SP-010385	status List following SA#12	MCC	8.8	Approval	
SP-010386	TSG RAN #12 meeting Report	TSG RAN Chairman	8.2.1	Information	
SP-010387	Isolated Impact CRs	TSG RAN	9.2	Action	
SP-010388	Report of Support Team activities	MCC (Adrian Scrase)	10	Information	
SP-010389	3GPP TSG Meetings	MCC (Adrian Scrase)	12	Information	
SP-010390	Electronic Working at meetings	BT	10	Discussion	
SP-010391	Agenda and scope for the "3GPP Future Evolution Workshop"	Nokia	8.9	Discussion	
SP-010392	Revised Work Item Description on Extended Transparent End-to-End Packet Switched Streaming Service (PSS-E)	SA WG4	7.4.3	Approval	
SP-010393	Summary of Content of Rel-4 and foreseen content of Rel-5	MCC			
SP-010394	LS Hand over scenario's between 2G and 3G networks	GSMA SerG	6.2	Discussio	
SP-010395	MCC review of the Work Plan	MCC (A Sultan)	9.1	Discussio	
SP-010396	CR 001 to 21.102 Release 4: Correction to list of specifications	MCC	8.6	Approval	

Annex C: List of attendees and TSG SA Voting List

C.1 List of Attendees

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Ramin Afchar	ramin.afchar@cetecom.de	CETECOM GmbH	+49 1722423340	+49 2054 9519 977	+49 2054 9519 86	3GPPMEMBER ETSI	DE
Mr. Andrew Allen	caa019@email.mot.com	Motorola Inc.		+1 847 435 0016	+1 847 632 6999	3GPPMEMBER T1	US
Mr. Gerhard Ammer	gammer@agere.com	Agere Systems Deutschland GmbH	+49 1729767892	+49 89 95086 312	+49 89 95086 255	3GPPMEMBER ETSI	DE
Mr. Niels Peter Skov Andersen	npa001@email.mot.com	MOTOROLA A/S	+45 4018 4793	+45 43 48 81 10	+45 43 48 80 01	3GPPMEMBER ETSI	DK
Miss Suzanne Arcens	sarcens@qualcomm.com	QUALCOMM EUROPE S.A.R.L.		+1 408 626 4431	+1 408 626 0550	3GPPMEMBER ETSI	FR
Dr. Vaidhyanathan Arunachalam	arun.arunachalam@conexant.com	Conexant Systems, Inc.		+1 949-483-9601	+ 1 949-483-6866	3GPPMEMBER T1	US
Mr. Asthana Atul		RIM				3GPPMEMBER ETSI	CA
Mr. George Babut	gbabut@rci.rogers.com	Rogers Wireless Inc.		+1 416 935 6027	+1 416 935 7502	3GPPMEMBER T1	CA
Mr. David Barnes	dbarnes3@compuserve.com	DTI	+44 77 85 316 985	+44 1634 570 244	+44 1634 572 360	3GPPMEMBER ETSI	GB
Ms. Yael Baruch	yael.baruch@celltick.com	Celltick Technologies Inc.	+972 54 386 744	+972 997 10290	+972 997 10242	3GPPMEMBER ETSI	IL
Mr. Per Beming	per.beming@era.ericsson.se	ERICSSON L.M.	+46 70 376 22 52	+46 8 404 4681	+46 8 757 5720	3GPPMEMBER ETSI	SE
Mr. Rob Bennink	r.bennink@kpn.com	KPN		+31 70 343 7105	+31 70 343 7237	3GPPMEMBER ETSI	NL
Mrs. Helena Berg		ERICSSON L.M.		+46 8 757 06 02	+46 8 75 12 309	3GPPMEMBER ETSI	SE
Mr. Eric BERTRAND	erbertra@bouyguestelecom.fr	BOUYGUES Telecom		+33141095765	+33661314876	3GPPMEMBER ETSI	FR
Mr. Walter Bindrim	walter.bindrim@materna.de	Materna GmbH		+49 231 5599-584	+49 231 5599-67 584	3GPPMEMBER ETSI	DE
Mr. David Boswarthick	david.boswarthick@etsi.fr	ETSI Secretariat		+33 4 92 94 42 78	+33 4 92 38 52 49	3GPPORG_REP ETSI	FR
Dr. Gunilla Bratt	gunilla.bratt@ecs.ericsson.se	ERICSSON L.M.		+46 46 193 729	+46 46 193 216	3GPPMEMBER ETSI	SE
Mr. Michael Brendborg	mbr@sonofon.dk	Dansk MobilTelefon I/S		+45 99 36 70 00	+45 99 36 70 70	3GPPMEMBER ETSI	DK
Mr. Andrea Calvi	andrea.calvi@tilab.com	TELECOM ITALIA S.p.A.		+39 011 228 7287	+39 011 228 7056	3GPPMEMBER ETSI	IT
Mr. Silvano Candeo	silvano.candeo@istsupcti.it	MINISTERO DELLE COMUNICAZIONI	+39 329 610 0227	+39 06 5444 2660	+39 06 5410 904	3GPPMEMBER ETSI	IT
Mr. Quentin Cassen	quent.cassen@conexant.com	Conexant Systems, Inc.	+1 714 606 7433	+1 949 483 4177	+1 949 483 5890	3GPPMEMBER T1	US
Dr. Jonathan Prince Castro	jonathan.castro@orange.ch	ORANGE PCS LTD	+41 78 787 1868	+41 21 216 1868	+41 21 216 1888	3GPPMEMBER ETSI	GB
Mr. Colin Chandler	colinc@qualcomm.com	QUALCOMM EUROPE S.A.R.L.	+33 6 80 35 27 78	+33 4 92 38 82 27	+33 4 92 38 82 30	3GPPMEMBER ETSI	FR

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Didier Chauveau	didier.chauveau@art-telecom.fr	Secrétariat d' Etat Industrie		+33 1 40 47 71 25	+33 1 40 47 71 90	3GPPMEMBER ETSI	FR
Mr. Takeshi Chikazawa	chika@isl.melco.co.jp	Mitsubishi Electric Co.		+81 467 41 2181	+81 467 41 2185	3GPPMEMBER ARIB	JP
Mr. Michael Clayton	mclayton@gsm.org	ETSI Secretariat	+44 468 670 480	+33 4 92 94 42 00	+33 4 93 65 47 16	3GPPORG_REP ETSI	FR
Mr. Stephen Corkovic	s.corkovic@vipnet.hr	VIP-NET GSM d.o.o.	+385 91 4691 414	+385 1 4691 414	+385 1 4691 419	3GPPMEMBER ETSI	HR
Mr. François Courau	francois.courau@alcatel.fr	ALCATEL S.A.	+33 608 82 20 22	+33 1 30 77 94 68	+33 1 30 77 94 30	3GPPMEMBER ETSI	FR
Mr. Alan Cox	alan.cox@vodafone.com	VODAFONE Group Plc	+44 77 85 200 147	+44 1635 673 332	+44 1635 676 147	3GPPMEMBER ETSI	GB
Mr. Graham Crisp	Graham.Crisp@Marconi.com	MARCONI COMMUNICATIONS		+44 115 906 4635	+44 115 906 4530	3GPPMEMBER ETSI	GB
Mr. Renato D'Avella	renato.davella@icn.siemens.it	SIEMENS ICN S.p.A		+39 02 43 88 8392	+39 02 43 88 8390	3GPPMEMBER ETSI	IT
Dr. Elizabeth Daniel	lizdaniel@lucent.com	Lucent Technologies N. S. UK	+44 77 70 682 461	+44 1793 883412	+44 1793 883815	3GPPMEMBER ETSI	GB
Mr. Jean-Jacques Davidian	davidian@docomo.fr	DoCoMo Europe S.A.		+33 1 5688 3030	+33 1 5688 3045	3GPPMEMBER ETSI	FR
Mr. Philip Davidson	phil.davidson@bt.com	BT		+44 1977 593 288	+44 1977 593 289	3GPPMEMBER ETSI	GB
Mr. Andrea De Pasquale	andrea.depasquale@omnitel.it	OMNITEL	+39 (0)347 2270884	+39 0125 624319	+39 0125 624734	3GPPMEMBER ETSI	IT
Miss Yuxing Deng	dengyuxing@chinamobile.com	China Mobile Company Corp.		+86-10-63602078	+86-10-63600117	3GPPMEMBER CWTS	CN
Mr. Harald Dettner	harald.dettner@icn.siemens.de	SIEMENS AG	+49 171 3340 784	+49 6621 169 169	+49 6621 169 122	3GPPMEMBER ETSI	DE
Dr. Dirk Didascalou	dirk.didascalou@mch.siemens.de	SIEMENS AG		+49-89-722 58574	+49-89-722 37078	3GPPMEMBER ETSI	DE
Mr. Ian Doig	ian.doig@motorola.com	MOTOROLA S.A.	+33 6 11 16 88 06	+33 4 92 94 48 64	+33 4 93 95 80 52	3GPPMEMBER ETSI	FR
Mr. Peter Donat	peter.donat@siemens.at	FEEI	+43 664 162 4383	+43 5 1707 21 200	+43 5 1707 51920	3GPPMEMBER ETSI	AT
Mr. Albert Dorgelo	dorgelo@lucent.com	Lucent Technologies EMEA B.V.	+31 653394658	+31 35 687 28 79	+31 35 687 58 33	3GPPMEMBER ETSI	NL
Dr. Ulrich Dropmann	ulrich.dropmann@icn.siemens.de	SIEMENS AG	+49 173 358 6241	+49 89 722 38458	+49 89 722 21882	3GPPMEMBER ETSI	DE
Mr. Ed Ehrlich	ed.ehrlich@nokia.com	Nokia Telecommunications Inc.	+1 214 707 0812	+1 972 894 4495	+1 972 894 5525	3GPPMEMBER T1	US
Mr. Jan Ellsberger	jan.ellsberger@era.ericsson.se	ERICSSON L.M.		+46 8 508 77965	+46 8 404 5769	3GPPMEMBER ETSI	SE
Mr. Lorentz Engstroem	lorentz.engstrom@intel.com	TELIA AB		+46 705 900 348	+46 706 104 014	3GPPMEMBER ETSI	SE
Mr. Göran B. Eriksson	goran.eriksson@etx.ericsson.se	TELIA AB		+46 870 753 88	+46 870 753 10	3GPPMEMBER ETSI	SE
Mr. Tom Eskildsen		NTT DoCoMo Inc.		+81 3 5687 6517	+81 3 5687 1389	3GPPMEMBER ARIB	JP
Mr. Denis Fauconnier	dfauconn@nortelnetworks.com	NORTEL NETWORKS (EUROPE)	+33 06 85 74 35 29	+33 1 39 44 52 87	+33 1 39 44 50 12	3GPPMEMBER ETSI	GB
Mr. John B Fenn	johnbfenn@aol.com	SAMSUNG Electronics	+44 78 02 339070	+44 1784 428 600	+44 1784 428 629	3GPPMEMBER ETSI	GB
Mr. Jaime Ferreira	jaime@ptinovacao.pt	PORTUGAL TELECOM SGPS SA		+351 2 207 9314	+351 2 207 9303	3GPPMEMBER ETSI	PT
Mr. Reed Fisher	rfisher@okitele.com	OKI Electric Europe GmbH		+1 678 482 2471	+1 678 482 9946	3GPPMEMBER ETSI	DE

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Meir Fuchs	meir@bamboomc.com	Bamboo MediaCasting	+972 54 470374	+972 9 7464676x111	+972 9 7464674	3GPPMEMBER ETSI	IL
Mr. Eisuke Fukuda	efukuda@jp.fujitsu.com	Fujitsu Limited		+81 44 754 4142	+81 44 754 4186	3GPPMEMBER ARIB	JP
Mr. Yukitsuna Furuya	y-furuya@bl.jp.nec.com	NEC Corporation		+81 45 939 2308	+81 45 939 2346	3GPPMEMBER ARIB	JP
Mr. Marc Grant	marc.grant@trimail.cingular.com	Cingular Wireless LLC	+1 925 640 3477	+1 512 372 5834	+1 512 241 5834	3GPPMEMBER T1	US
Mr. Davide Grillo	grillo@fub.it	ALCATEL Italia SpA		+39 06 5480 3430	+39 06 5480 4404	3GPPMEMBER ETSI	IT
Dr. Alberto Gutierrez	agutier1@email.mot.com	Motorola Inc.		+1 847 435 3102	+1 847 435 3617	3GPPMEMBER T1	US
Mr. Cesar Gutierrez Miguelez	cesar.gutierrez@etsi.fr	ETSI Secretariat		+33 4 92 94 4321	+33 4 93 65 47 16	3GPPORG_REP ETSI	FR
Mr. Zdenek Gütter	zdenek.gutter@oskarmobil.cz	OSKAR Cesky Mobil a.s.		+420 608 010 111	+420 224 355 999	3GPPMEMBER ETSI	CZ
Mr. Gerfried Handke	gerfried.handke@de.unisys.com	Unisys Deutschland GmbH		+49 6196 99-1480	+49 69 255 77 369	3GPPMEMBER ETSI	DE
Mr. Koichi Harada	haradakou@nttdocomo.co.jp	ARIB		+81 3 5156 1786	+81 3 5156 0250	3GPPORG_REP ARIB	JP
Mr. Hans Hauser	hans.hauser@t-mobil.de	Deutsche Telekom MobilNet	+ 49 171 549 03 99	+49 228 936 1200	+49 228 936 1145	3GPPMEMBER ETSI	DE
Mr. Stephen Hayes	stephen.hayes@ericsson.com	Ericsson Inc.	+1 469 360 8500	+1 972 583 5773	+1 801 409 6319	3GPPMEMBER T1	US
Mr. Gunnar Hellstrom	gunnar.hellstrom@omnitor.se	ERICSSON L.M.	+46 708 204 288	+46 8 556 002 03	+46 8556 002 06	3GPPMEMBER ETSI	SE
Mr. Frédéric Heurtaux	frederic.heurtaux@sagem.com	SAGEM Group		+33 1 30 73 71 89	+33 1 34 22 11 13	3GPPMEMBER ETSI	FR
Mr. Kevin Holley	kevin.holley@bt.com	BT	+44 7802 220811	+44 1473 605604	+44 1473 619027	3GPPMEMBER ETSI	GB
Mr. Christopher Holmes	christopher.holmes@dti.gsi.gov.uk	DTI		+44 20 7215 1779	+44 20 7931 7194	3GPPMEMBER ETSI	GB
Mr. Stefan Holzer	Stefan.Holzer@ATC.CO.AT	ÖFEG		+431 81111 1744	+431 81111 8620	3GPPMEMBER ETSI	AT
Mr. Andrew Howell	andrew.howell@motorola.com	MOTOROLA GmbH	+44 77 85 363 850	+44 1256 790 170	+44 1256 790 190	3GPPMEMBER ETSI	DE
Mr. Yun Chao Hu	yun-chao.hu@era.ericsson.se	ERICSSON L.M.		+46 8 508 78 153	+81 3 5216 9047	3GPPMEMBER ETSI	SE
Mr. Eric Huberlant	eric.huberlant@francetelecom.com	France Telecom		+33 1 45 29 52 83	+33 1 45 29 58 54	3GPPMEMBER ETSI	FR
Mr. Shinobu Ikeda	shinobu.ikeda@etsi.fr	ETSI Secretariat		+33 4 92 94 42 06	+33 4 92 38 49 36	3GPPORG_REP ETSI	FR
Mrs. Dorota Inkielman	dorota.inkielman@centertel.pl	PTK CENTERTEL	+48 501 2000 75	+48 22 634 2920	+48 22 634 2925	3GPPMEMBER ETSI	PL
Mr. Edouard Issenmann	edouard.issenmann@alcatel.fr	ALCATEL France		+33 1 30 77 93 01	+33 1 30 77 0369	3GPPMEMBER ETSI	FR
Mr. Teuvo Jarvela	teuvo.jarvela@northstream.se	Northstream AB			+46 70 232 9894	3GPPMEMBER ETSI	SE
Mr. Kari Järvinen	kari.ju.jarvinen@nokia.com	NOKIA Corporation	+358 50 555 0999	+358 3272 5854	+358 3272 5888	3GPPMEMBER ETSI	FI
Mr. Gary Jones	gary.jones@voicestream.com	VoiceStream Wireless Corp.	+1 201486 0949	+1 202.654.5950	+1 202 654 5963	3GPPMEMBER ETSI	US
Mr. Per Johan Jorgensen	jorgensen@etsi.fr	ETSI Secretariat	+33	+33 4 92 94 42 31	+33 4 93 65 28 17	3GPPORG_REP ETSI	FR
Ms. Ki-Ho Jung	khchung@samsung.com	Samsung Electronics Co., Ltd		+82 342 779 6807	+82 342 779 8003	3GPPMEMBER TTA	KR

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mrs. Andrijana Jurisic	andrijana.jurisic@etsi.fr	ETSI Secretariat		+33 4 92 94 43 09	+33 4 92 38 52 52	3GPPORG_REP ETSI	FR
Mr. Mikko Kanerva	mikko.j.kanerva@nokia.com	NOKIA Corporation	+358 40 504 0735	+358 7180 73046	+358 7180 30163	3GPPMEMBER ETSI	FI
Mr. Radivoj Kar	rkar@compuserve.com	MITSUBISHI Electric Telecom	+33 6 07 67 52 52	+33 1 55 68 56 60	+33 1 55 68 57 41	3GPPMEMBER ETSI	FR
Mr. Mike Karimian	MKarimian@panasonicatlanta.com	MATSUSHITA COMMUNICATION		+770-338-6246	+770-338-6238	3GPPMEMBER ETSI	GB
Mr. Yukio Kawanami	kawanami@cj.jp.nec.com	NEC Corporation		+81471856706	+81471856890	3GPPMEMBER TTC	JP
Mr. Chris Kemp	chris.kemp@era.ericsson.se	ERICSSON L.M.		+46 8 585 31348	+48 8 585 77300	3GPPMEMBER ETSI	SE
Miss Minna Kristiina Kiljala	minna.kiljala@nokia.com	NOKIA Corporation		+358 9 51121	+358 9 38452	3GPPMEMBER ETSI	FI
Miss Min-Jeong Kim	kimi@ktf.co.kr	Korea Telecom Freetel		+82-2-2016-1252	+82-2-2016-1919	3GPPMEMBER TTA	KR
Mr. Norbert Klehn	norbert.klehn@icn.siemens.de	SIEMENS AG	+49 171 3340782	+49 30 386 29090	+49 30 386 44255	3GPPMEMBER ETSI	DE
Mr. Sawoi Koichiro		NTT DoCoMo Inc.				3GPPMEMBER TTC	JP
Mr. Tommi Kokkola	tommi.kokkola@nokia.com	NOKIA Corporation	+358 40 50 40 734	+358 40 50 40 734	+358 7180 30163	3GPPMEMBER ETSI	FI
Mr. Hiroshi Komatsu	hkomatsu@j-phone.com	J-Phone Communications Co.Ltd.		+81 34288 2291	+81 355 408485	3GPPMEMBER ARIB	JP
Ms. Susanna Kooistra	susanna.kooistra@etsi.fr	ETSI Secretariat		+33 4 92 94 49 35	+33 4 92 38 52 83	3GPPORG_REP ETSI	FR
Mr. Joe Kwak	joekwak@mcs.net	Golden Bridge Technology Inc.		+630 739 4327	+732 870 9008	3GPPMEMBER T1	US
Mr. Kimmo Kymalainen	kimmo.kymalainen@etsi.fr	ETSI Secretariat	+33 6 74 40 83 65	+33 4 92 94 42 38	+33 4 92 38 52 38	3GPPORG_REP ETSI	FR
Mr. Torbjorn Larsson		ERICSSON L.M.		+46 8 757 06 02	+46 8 75 12 309	3GPPMEMBER ETSI	SE
Mr. Kwangchun Lee	kclee@etri.re.kr	ETRI		+82 42 860 6843	+82 42 860 6500	3GPPMEMBER TTA	KR
Ms. Ileana Leuca	ileana.leuca@attws.com	AT&T Wireless Services, Inc.		+1-425-580-7900	+1-425-580-6811	3GPPMEMBER T1	US
Mr. Bengt-Ake Lindholm	bengt-ake.i.lindholm@telia.se	TELIA AB		+46 8 713 81 24	+46 8 713 81 49	3GPPMEMBER ETSI	SE
Mrs. Xuejun Lu	luxj@public.bta.net.cn	RITT		+86 10 6809 4327	+86 10 6803 4801	3GPPMEMBER CWTS	CN
Dr. Hashem Madadi	hmadadi@attglobal.net	Hutchison 3G UK Limited		+44.1628.765.000	+44.1628.765.001	3GPPMEMBER ETSI	GB
Mr. Yutaka Maeda	maeda@arib.or.jp	ARIB		+81 3 5510 8594	+81 3 5921 1103	3GPPORG_REP ARIB	JP
Mr. Arie Mahfoda	arie.mahfoda@UNISYS.COM	Unisys Deutschland GmbH		+49 6196 99 1620	+49 6196 99 1034	3GPPMEMBER ETSI	DE
Mr. Mohammad Mahloujian	mohammad.mahloujian@ericsson.com	ERICSSON L.M.	+46-8-265 88 86	+46 8 585 321 13		3GPPMEMBER ETSI	SE
Mr. Gerhard.M. Maier	gerhard.maier@sharp.co.uk	SHARP Manufacturing France S.A		+44 1 865 747711	+44 1 865 747717	3GPPMEMBER ETSI	FR
Mr. Kari Marttinen	kari.marttinen@sonera.com	SONERA Corporation	+358 400 400 068	+358 2040 66816	+358 4204 00068	3GPPMEMBER ETSI	FI
Noritaka Matsuura	nm@ptl.abk.nec.co.jp	NEC Corporation		+81 471 85 6741	+81 471 85 6841	3GPPMEMBER TTC	JP
Mr. Chris McIntosh	chrism@iwv.com	InterWAVE Com. Intern. B.V.		+1 650 482 2137	+1 650 261 6220	3GPPMEMBER ETSI	NL

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Steve Mecrow	steve.mecrow@bt.com	BT	+44 0410 028 511	+44 1 394 380694	+44 1 977 593823	3GPPMEMBER ETSI	GB
Mr. John M Meredith	john.meredith@etsi.fr	ETSI Secretariat	+33 (0)6 10 42 03 76	+33 4 92 94 42 37	+33 (0)4 92 38 52 37	3GPPORG_REP ETSI	FR
Mr. Jürgen Merkel	juergen.merkel@icn.siemens.de	SIEMENS AG		+49 89 722 59596	+49 89 722 21882	3GPPMEMBER ETSI	DE
Ms. Linda Morales	lmorales@awardsolutions.com	AWARD Solutions Inc.		+1 972 664 0727	+1 972 664 0729	3GPPMEMBER ETSI	US
Mr. Hiroshi Nakamura	naka@nw.yrp.nttdocomo.co.jp	NTT DoCoMo		+81 468 40 3332	+81 468 40 3781	3GPPMEMBER ETSI	JP
Mr. Takaharu Nakamura	n.takaharu@jp.fujitsu.com	Fujitsu Limited		+81 468 37 5341	+81 468 47 5424	3GPPMEMBER ARIB	JP
Mr. Keiichi Nakayama	k-naka@arib.or-jp	ARIB	+81 3 3592 1103		+81 3 3510 8594	3GPPORG_REP ARIB	JP
Ms. Antonella Napolitano	antonella.napolitano@mail.blu.it	BLU S.p.a		+39 380 5023666	+39 06 59449 521	3GPPMEMBER ETSI	IT
Dr. Peter Neumann	peter.neumann@mch.siemens.de	SIEMENS AG	+49 17 28 90 44 28	+49 89 72 23 67 18	+49 89 72 24 88 72	3GPPMEMBER ETSI	DE
Mr. Bjarke Nielsen	bnielsen@qualcomm.com	QUALCOMM EUROPE S.A.R.L.	+49 89 1705488 456	+49 89 74140806	+49 89 7414 0808	3GPPMEMBER ETSI	FR
Mr. Akishige Noda	aki.noda@jp.fujitsu.com	Fujitsu Limited		+81 44 75 44 196	+81 44 75 44 147	3GPPMEMBER TTC	JP
Mr. Jesper örtlund		ERICSSON L.M.				3GPPMEMBER ETSI	SE
Mr. Stig Ouvrier	stig.g.ouvrier@telia.se	TELIA AB	+46 70 5900 354	+46 70 5900354	+46 8 601 7268	3GPPMEMBER ETSI	SE
Mr. Vinod Pandey	vpandey@cisco.com	Cisco Systems Inc.		+1 408 853 9596	+1 408 853 0406	3GPPMEMBER T1	US
Mr. Ian David Chalmers Park	ian.park@vf.vodafone.co.uk	VODAFONE Group Plc	+44 7785 300 290	+44 1635 673 527	+44 1635 233 562	3GPPMEMBER ETSI	GB
Mr. Sang-Keun Park	skpark@samsung.com	Samsung Electronics Co., Ltd	+82-11-349-6535	+82-31-218-7152	+82-31-218-7006	3GPPMEMBER TTA	KR
Mr. Jean-Benoit Pierrot	jean-benoit.pierrot@philips.com	PHILIPS CONSUMER COMMUNICATION		+33 243 184 197	+33 243 411 126	3GPPMEMBER ETSI	FR
Mr. Hannu Pirila	hannu.i.pirila@nokia.com	NOKIA Corporation		+358 10 505 4536	+358 10 505 4770	3GPPMEMBER ETSI	FI
Mr. Maurice Pope	maurice.pope@etsi.fr	ETSI Secretariat		+33 4 92 94 42 59	+33 4 92 38 52 59	3GPPORG_REP ETSI	FR
Mr. Biplab Pramanik	bpramani@telcordia.com	Telcordia Technologies Inc.		+1 732 758 3258	+1 732 758 4191	3GPPMEMBER T1	US
Mr. Daniel Prenatt	dprenatt@airnetcom.com	AirNet Communications Corp.		+1 561-792-1139	+1 407 984 2348	3GPPMEMBER ETSI	US
Mr. Mikko Puuskari	mikko.puuskari@nokia.com	NOKIA Corporation	+358 40 528 8283	+358 9 43 761	+358 9 4376 6850	3GPPMEMBER ETSI	FI
Mr. Magnus Qvarnstrom	magnus.qvarnstroem@swisscom.com	SWISSCOM		+41 31 342 1111	+41 31 342 5174	3GPPMEMBER ETSI	CH
Mr. Johannes Rainer	johannes.rainer@telekom.at	Telekom Austria AG		+43 1 797 112 011	+43 1 797 112 264	3GPPMEMBER ETSI	AT
Mr. Julio Ramires	julio.ramires@icp.pt	ICP	+351 96 9004497	+351 21 435 12 12	+351 21 435 35 77	3GPPMEMBER ETSI	PT
Mr. Golan Regev	golanr@airslide.com	Airslide Systems Inc.		+972 9 970 98 00	+972 9 970 98 43	3GPPMEMBER ETSI	IL
Mr. Kenneth Rehbehn	krehbehn@megisto.com	Megisto Systems Inc.		+1 301 444 1700	+1 301 515 3675	3GPPMEMBER ETSI	US

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Wolfgang Reichl	wolfgang.reichl@ieee.org	ÖFEG	+43 664 400 1700	+43 1 797 8028	+43 1 797 8013	3GPPMEMBER ETSI	AT
Mr. Paul Reid	paul.reid@etsi.fr	ETSI Secretariat	+33 6 85 76 89 74	+33 4 92 94 42 19	+33 4 92 38 52 19	3GPPORG_REP ETSI	FR
Mr. Jean Gabriel Remy	jean-gabriel.remy@cegetel.fr	CEGETEL	+33 60 97 11 199	+33 6 09 71 11 99		3GPPMEMBER ETSI	FR
Mr. Charles Q. Robinson	cqr@dolby.com	Dolby Laboratories Inc.		+1 415 558 0234	+1 415 863 1373	3GPPMEMBER ETSI	GB
Mr. Rhys Robinson	RRobinson@TruePosition.com	TruePosition Inc.		+1 610-680-2119	+1 610-680-1199	3GPPMEMBER T1	US
Mr. Friedhelm Rodermund	friedhelm.rodermund@etsi.fr	ETSI Secretariat	+33 6 74 40 83 75	+33 4 92 94 43 24	+33 4 92 38 52 34	3GPPORG_REP ETSI	FR
Mr. Karl Heinz Rosenbrock	rosenbrock@etsi.fr	ETSI Secretariat		+33 4 92 94 42 12	+33 4 93 65 47 16	3GPPORG_REP ETSI	FR
Mr. Joon Ryu	joonryu@samsung.com	Samsung Electronics Co., Ltd		+82 31 779 6827	+82 31 779 8003	3GPPMEMBER TTA	KR
Mr. Hiroshi Saito	hiroshi.saito@yrp.mci.mei.co.jp	Matsushita Communication		+81 468 40 5440	+81 468 40 5183	3GPPMEMBER ARIB	JP
Ms. Lidia Salmeron	lidia.salmeron@etsi.fr	ETSI Secretariat	+34 619403061	+33 4 92 94 43 49	+33 4 92 38 52 30	3GPPORG_REP ETSI	FR
Mr. Nick Sampson	nick.sampson@orange.co.uk	ORANGE PCS LTD	+44 7973 963 519	+44 7973 963519	+44 7973 987883	3GPPMEMBER ETSI	GB
Mr. Tomas Sandberg	tomas.sandberg@kevab.com	Kevab		+4684079600	+4684079630	3GPPMEMBER ETSI	SE
Mr. Gunnar Sandegren	gunnar.sandegren@era.ericsson.se	ERICSSON L.M.	+46 70 591 2507	+46 8 757 2507		3GPPMEMBER ETSI	SE
Mr. Michael Sanders	michael.sanders@etsi.fr	ETSI Secretariat		+33 4 92 94 42 90	+33 4 92 38 52 72	3GPPORG_REP ETSI	FR
Mr. Akio Sasaki	sasaki@arib.or.jp	ARIB		+813 5510 8594	+813 3592 1103	3GPPORG_REP ARIB	JP
Mr. Kazuyoshi Sato	ka.sato@cew.melco.co.jp	Mitsubishi Electric Co.		+81 6 6495 6495	+81 6 6495 5266	3GPPMEMBER ARIB	JP
Dr. Gary Schlanger	gschlanger@home.com	AT&T Wireless Services, Inc.	+1 973 454 7230	+1 973 454 7230	+1 603 676 9637	3GPPMEMBER T1	US
Mr. Adrian Scrase	adrian.scrase@etsi.fr	ETSI Secretariat	06 07 590 851	+33 4 92 94 42 54	+33 4 92 38 52 54	3GPPORG_REP ETSI	FR
Mr. Iain Sharp	isharp@nortetnetworks.com	NORTEL NETWORKS (EUROPE)		+44 1628 43 42 87	+44 1628 434 034	3GPPMEMBER ETSI	GB
Mr. Eran Shiff	Eshiff@celltick.com	Celltick Technologies Inc.		+972 9 9710 276	+972 9 9710 222	3GPPMEMBER ETSI	IL
Mr. Jerry Shih	jerry_shih@3com.com	CommWorks Corporation		+1 847 797 2102	+1 847 342 6363	3GPPMEMBER ETSI	US
Mr. Toshihiro Shimizu	toshi.shimizu@mci.co.uk	NTT DoCoMo Inc.	+44 0385 360 135	+44 16 35 871 466	+44 16 35 871 345	3GPPMEMBER ARIB	JP
Dr. David Shively	david.shively@cingular.com	Cingular Wireless LLC		+14042855731	+14042490304	3GPPMEMBER T1	US
Mr. Paul Simmons	simmonsp@nortelnetworks.com	NORTEL NETWORKS (EUROPE)	+33 6 85 74 38 68	+33 1 39 44 55 95	+33 1 39 44 52 52	3GPPMEMBER ETSI	GB
Mr. Anders Sjöberg	anders.sjoberg@era.ericsson.se	ERICSSON L.M.		+46 8 585 30268	+46 8 508 77300	3GPPMEMBER ETSI	SE
Mr. Prem Sood	pls@sharplabs.com	SHARP Corporation		+1 360 834 8708	+1 360 834 8696	3GPPMEMBER ARIB	JP
Mr. Mattias Starck		ERICSSON L.M.		+46 8 757 06 02	+46 8 75 12 309	3GPPMEMBER ETSI	SE
Mr. Alain Sultan	alain.sultan@etsi.fr	ETSI Secretariat	+33 6 80 08 94 59	+33 4 92 94 42 71	+33 4 92 38 52 98	3GPPORG_REP ETSI	FR

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Lixin Sun	ym.zhou@public.bta.net.cn	CATT		+8610 6809 4467	+8610 6803 4801	3GPPMEMBER CWTS	CN
Mr. Jonas Sundborg	jonas.sundborg@era.ericsson.se	ERICSSON L.M.	+46 70 674 8035	+46 8 404 8035	+46 8 5087 7300	3GPPMEMBER ETSI	SE
Mr. Takashi Suzuki	tsuzuki@lucent.com	Lucent Technologies Japan Ltd.		+81 3 5561 5857	+81 3 5561 9011	3GPPMEMBER TTC	JP
Mr. Kunihiko Taya	taya@bk.jp.nec.com	NEC Corporation		+81-3-3798-4036	+81-3-3798-4626	3GPPMEMBER TTC	JP
Mrs. Carolyn Taylor	carolyn.taylor@etsi.fr	ETSI Secretariat		+33 4 92 94 43 52	+33 4 92 38 49 01	3GPPORG_REP ETSI	FR
Mr. Kazuhiko Terashima	tera@wtlab.sony.co.jp	SONY Corporation		+81 3 5782 5199	+81 3 5782 5213	3GPPMEMBER ARIB	JP
Mr. Rémi Thomas	remi.thomas@francetelecom.fr	France Telecom	+33 6 07 01 22 35	+33 1 55 22 15 39	+33 1 55 22 23 23	3GPPMEMBER ETSI	FR
Mr. Armin Toepfer	armin.toepfer@d2vodafone.de	MANNESMANN Mobilfunk GmbH	+49 172 2100 748	+49 211 533 2838	+49 211 533 2804	3GPPMEMBER ETSI	DE
Ms. Paola Tonelli	paola.tonelli@vodafone-us.com	VODAFONE Group Plc	+1 925 788 7608	+1 925 210 3445	+1 925 210 3446	3GPPMEMBER ETSI	GB
Mr. Finn Trosby	finn.trosby@telenor.com	TELENOR AS		+47 90102247	+47 22207239	3GPPMEMBER ETSI	NO
Mr. Paolino Usai	paolo.usai@etsi.fr	ETSI Secretariat	+39 335 387 164	+33 4 92 94 42 36	+33 4 92 38 52 06	3GPPORG_REP ETSI	FR
Mr. Nacho Uzquiano	uzquiano_ji@tsm.es	TELEFONICA de España S.A.		+34 63 0003198	+34 63 000 7311	3GPPMEMBER ETSI	ES
Mr. Jari Vainikka	jari.vainikka@nokia.com	NOKIA Corporation	+358 40 511 8866	+358 9 511 68098	+358 9 511 68080	3GPPMEMBER ETSI	FI
Ms. Isabelle Valet-Harper	isavh@microsoft.com	MICROSOFT EUROPE SARL	+33 6 14 54 12 26	+33 1 46 35 12 26	+33 1 45 35 10 10	3GPPMEMBER ETSI	FR
Mr. Hans van der Veen	hans.vanderveen@etsi.fr	ETSI Secretariat	+31 6 5519 6615	+33 4 92 94 42 61	+33 4 92 38 49 46	3GPPORG_REP ETSI	FR
Mr. Dirk Verbeek	dirk.verbeek@siemens.atea.be	SIEMENS ATEA NV		+32 14 25 2943	+32 14 25 3212	3GPPMEMBER ETSI	BE
Prof. Michael Walker	mike.walker@vf.vodafone.co.uk	VODAFONE Group Plc	+44 77 85 277 687	+44 1635 673 886	+44 1635 31127	3GPPMEMBER ETSI	GB
Mr. Knut Erik Walter	knut-erik.walter@telenor.com	TELENOR AS	+47 9002 2727	+47 2278 5525	+47 2278 5500	3GPPMEMBER ETSI	NO
Miss Jie Wang	jie_wang@huawei.com	CWTS		+86 755 6532419	+86 755 6532418	3GPPORG_REP CWTS	CN
Ms. Jingyu Wang	wangjy@catt.ac.cn	CATT		+86 10 62304422-206	+86 10 62303127	3GPPMEMBER CWTS	CN
Mrs. WEI(VICTORIA) WANG	victoria.wang@etc.ericsson.se	ERICSSON L.M.		+861065615566-10393	+861065611824	3GPPMEMBER ETSI	SE
Miss Yanhong Wang	Wangyanhong@huawei.com	HuaWei Technologies Co., Ltd		+86-21-68810115		3GPPMEMBER CWTS	CN
Mrs. Barbro Warberg	barbro.b.warberg@telia.se	ERICSSON L.M.		+46 8 707 4751	+46 8 707 4800	3GPPMEMBER ETSI	SE
Mr. Kunio Watanabe	kunio.watanabe@jp.fujitsu.com	Fujitsu Limited		+81 44 754 3018	+81 44 754 3322	3GPPMEMBER ARIB	JP
Mr. Andrew Watson	awatson@ktl.com	MOTOROLA Ltd		+44 1482 801801	+44 1482 801806	3GPPMEMBER ETSI	GB
Dr. David Hugh Williams	dwilliams@qualcomm.com	QUALCOMM EUROPE S.A.R.L.	+33 6 12 98 69 35	+33 4 92 38 82 33	+33 492 38 82 30	3GPPMEMBER ETSI	FR
Mr. Dean Willis	dwillis@dynamicsoft.com	Dynamicsoft Inc.		+1 972 473 5455	+1 972 781 0115	3GPPGUEST OTHER	US

Name	Represented Company	e-mail address	Mobile Telephone	Telephone	Facsimile	3GPP Status	Cty
Mr. Mick Wilson	m.wilson@fujitsu.co.uk	FUJITSU Europe Telecom R & D C		+44 20 8606 4801	+44 20 8573 3602	3GPPMEMBER ETSI	GB
Ms. Emmanuelle Wurffel	emmanuelle.wurffel@etsi.fr	ETSI Secretariat		+33 4 92 94 42 66	+33 4 92 38 52 66	3GPPORG_REP ETSI	FR
Miss Fei Xu	xufei@263.net	RITT		+86-10-68094323		3GPPMEMBER CWTS	CN
Mr. Yukio Yoshimura	y-yoshimura@ax.jp.nec.com	NEC Corporation		+81-3-3798-4743	+81-3-3798-9967	3GPPMEMBER ARIB	JP
Mr. Keiji Yoshino	yoshino@ttc.or.jp	TTC		+81 3 3432 1551	+81 3 3432 1553	3GPPORG_REP TTC	JP
Mr. Albert Yuhan	albert.yuhan@voicestream.com	VoiceStream Wireless Corp.	+1 201 233 2203	+1 973 290 2665	+1 973 290 2575	3GPPMEMBER ETSI	US
Mr. Donald E. Zelmer	don.zelmer@cingular.com	Cingular Wireless LLC	+1 704 737 9950	+1 404 236 5912	+1 404 249 5157	3GPPMEMBER T1	US
Mrs. Huayan Zhang	etc.etcterry@memo.ericsson.se	ERICSSON L.M.	+ 86139 1235194	+86 10 6463 2288	+86 10 6461 5405	3GPPMEMBER ETSI	SE
Mr. Adrian Zoicas	adrian.zoicas@etsi.fr	ETSI Secretariat	+33 6 74 40 83 72	+33 4 92 94 42 21	+33 4 92 38 52 21	3GPPORG_REP ETSI	FR

C.2 List of eligible Voting members for TSG SA#13

The attached list is dependent upon the information in C.1 and Individual Member companies who are recorded as attending TSG SA Meetings #11 or #10 (representation of an Individual Member at any of TSG SA Meetings #10, #11 or #12).

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

List Created on: 16 August 2001

This report shows the 3GPP Member Companies on the Voting List for **TSG SA Meeting #13**
Inclusion on the list is obtained by attending a meeting of **TSG SA**
A company is removed from this list if it is not represented at any of the 3 previous meetings of this group.
If you believe your company should be included in this list, please provide supporting information to MCC, the 3GPP Support Team at: 3gppcontact@etsi.fr

Organisation Name	Organisation Status	Partner
Accord Networks (UK) Ltd	3GPPMEMBER	ETSI
Agere Systems Deutschland GmbH (Agere Systems Deutschland GmbH & Co. KG.)	3GPPMEMBER	ETSI
AirNet Communications Corp.	3GPPMEMBER	ETSI
Airslide Systems Inc.	3GPPMEMBER	ETSI
ALCATEL France	3GPPMEMBER	ETSI
ALCATEL Italia SpA	3GPPMEMBER	ETSI
ALCATEL S.A.	3GPPMEMBER	ETSI
ALCATEL SEL AG	3GPPMEMBER	ETSI
AT&T Corp.	3GPPMEMBER	T1
AT&T Wireless Services, Inc.	3GPPMEMBER	T1
AWARD Solutions Inc. (AWARD Solutions Inc. A.S.I.)	3GPPMEMBER	ETSI
Bamboo MediaCasting	3GPPMEMBER	ETSI
BLU S.p.a	3GPPMEMBER	ETSI
BMWi (BUNDESMINISTERIUM FUR WIRTSCHAFT)	3GPPMEMBER	ETSI
BOUYGUES Telecom	3GPPMEMBER	ETSI
BT	3GPPMEMBER	ETSI
CATT	3GPPMEMBER	CWTS
CEGETEL	3GPPMEMBER	ETSI
Celltick Technologies Inc.	3GPPMEMBER	ETSI
CETECOM GmbH (CETECOM GmbH - Certification and Testing in Communications)	3GPPMEMBER	ETSI
China Mobile Company Corp. (China Mobile Company Corporation (CMCC))	3GPPMEMBER	CWTS
Cingular Wireless LLC	3GPPMEMBER	T1
Cisco Systems Inc.	3GPPMEMBER	T1
CommWorks Corporation (CommWorks Corporation, a 3Com Company)	3GPPMEMBER	ETSI
COMNEON GmbH & Co	3GPPMEMBER	ETSI
COMPAQ Computer SpA	3GPPMEMBER	ETSI
Conexant Systems, Inc.	3GPPMEMBER	T1
Convergelabs GmbH	3GPPMEMBER	ETSI
Dansk MobilTelefon I/S	3GPPMEMBER	ETSI
Deutsche Telekom MobilNet (Deutsche Telekom MobilNet GmbH)	3GPPMEMBER	ETSI
DoCoMo Europe S.A.	3GPPMEMBER	ETSI
Dolby Laboratories Inc.	3GPPMEMBER	ETSI
DTI (DTI - Department of Trade and Industry)	3GPPMEMBER	ETSI
E-PLUS Mobilfunk	3GPPMEMBER	ETSI
ERA-GSM POLSKA TELEFONIA (ERA-GSM POLSKA TELEFONIA CYFROWA SP. Z O.O.)	3GPPMEMBER	ETSI
Ericsson Inc. (Ericsson Incorporated)	3GPPMEMBER	T1
Ericsson Korea	3GPPMEMBER	TTA
ERICSSON L.M. (Telefon AB LM Ericsson)	3GPPMEMBER	ETSI
ETRI (Electronics & Telecommunications Research Institute)	3GPPMEMBER	TTA
FEEI (FEEI - Fachverband der Elektro- und Elektronikindustrie Bereich Technik)	3GPPMEMBER	ETSI
Finnet Group	3GPPMEMBER	ETSI
France Telecom	3GPPMEMBER	ETSI
FUJITSU Europe Telecom R & D C (FUJITSU Europe Telecom R & D Centre)	3GPPMEMBER	ETSI
Fujitsu Limited	3GPPMEMBER	ARIB
Fujitsu Limited	3GPPMEMBER	TTC
Golden Bridge Technology Inc.	3GPPMEMBER	T1
HuaWei Technologies Co., Ltd	3GPPMEMBER	CWTS
Hutchison 3G UK Limited	3GPPMEMBER	ETSI
IAEI (IAEI - Israel Association of Electronics Industries)	3GPPMEMBER	ETSI
ICP (ICP - Instituto das Comunicacoes de Portugal)	3GPPMEMBER	ETSI
InterWAVE Com. Intern. B.V. (InterWAVE Communications International B.V.)	3GPPMEMBER	ETSI
J-Phone Communications Co.Ltd. ( )	3GPPMEMBER	ARIB
Japan Telecom Co. Ltd	3GPPMEMBER	ARIB
Kevab (Kevab, The Base Station Company)	3GPPMEMBER	ETSI
Korea Telecom Freetel	3GPPMEMBER	TTA
KPN (KPN - Koninklijke PTT Nederland NV)	3GPPMEMBER	ETSI

Organisation Name	Organisation Status	Partner
Lucent Technologies	3GPPMEMBER	T1
Lucent Technologies EMEA B.V.	3GPPMEMBER	ETSI
Lucent Technologies Japan Ltd.	3GPPMEMBER	TTC
Lucent Technologies N. S. UK (Lucent Technologies Network Systems UK)	3GPPMEMBER	ETSI
MANNESMANN Mobilfunk GmbH	3GPPMEMBER	ETSI
MARCONI COMMUNICATIONS	3GPPMEMBER	ETSI
Materna GmbH	3GPPMEMBER	ETSI
Matsushita Communication (Matsushita Communication Industrial Co, Ltd)	3GPPMEMBER	ARIB
MATSUSHITA COMMUNICATION (MATSUSHITA COMMUNICATION INDUSTRIAL UK LTD)	3GPPMEMBER	ETSI
MAX.MOBIL. TELEKOM. (MAX.MOBIL. TELEKOMMUNIKATION SERVICE GMBH)	3GPPMEMBER	ETSI
Megisto Systems Inc.	3GPPMEMBER	ETSI
MICROSOFT EUROPE SARL	3GPPMEMBER	ETSI
MINISTERO DELLE COMUNICAZIONI (ISTITUTO SUPERIORE DELLE COMUNICAZIONI E DELLE TECNOLOGIE DELL' INFORMAZIONE)	3GPPMEMBER	ETSI
Mitsubishi Electric Co.	3GPPMEMBER	ARIB
MITSUBISHI Electric Telecom (MITSUBISHI Electric Telecom Europe S.A.)	3GPPMEMBER	ETSI
MOTOROLA A/S	3GPPMEMBER	ETSI
MOTOROLA GmbH	3GPPMEMBER	ETSI
Motorola Inc.	3GPPMEMBER	T1
MOTOROLA INDIA ELECTRONICS LTD	3GPPMEMBER	ETSI
MOTOROLA Ltd	3GPPMEMBER	ETSI
MOTOROLA S.A.	3GPPMEMBER	ETSI
MOTOROLA SEMICONDUCTOR ISRAEL (MOTORAOLA SEMICONDUCTOR ISRAEL LTD)	3GPPMEMBER	ETSI
NEC Corporation	3GPPMEMBER	ARIB
NEC Corporation	3GPPMEMBER	TTC
NOKIA Corporation	3GPPMEMBER	ETSI
Nokia Telecommunications Inc.	3GPPMEMBER	T1
Nortel Networks (Nortel Networks (USA))	3GPPMEMBER	T1
NORTEL NETWORKS (EUROPE)	3GPPMEMBER	ETSI
Northstream AB (Northstream AB)	3GPPMEMBER	ETSI
Norwegian P & T Authority (Norwegian Post and Telecommunications Authority)	3GPPMEMBER	ETSI
NTT (Nippon Telegraph and Telephone Corporation (NTT))	3GPPMEMBER	TTC
NTT DoCoMo (NTT DoCoMo Inc.)	3GPPMEMBER	ETSI
NTT DoCoMo Inc.	3GPPMEMBER	ARIB
NTT DoCoMo Inc. (NTT DoCoMo Inc)	3GPPMEMBER	TTC
ÖFEG (ÖFEG - Österreichische Fernmeldetechn. Entwicklungs-Förderungs Gesellschaft)	3GPPMEMBER	ETSI
OKI Electric Europe GmbH	3GPPMEMBER	ETSI
Oki Electric Industry Co. Ltd. (OKi Electric Industry Co., Ltd)	3GPPMEMBER	ARIB
OMNITEL (OMNITEL Pronto Italia SpA)	3GPPMEMBER	ETSI
One 2 One Personal Comm. Ltd (One 2 One Personal Commmunications Limited)	3GPPMEMBER	ETSI
ORANGE PCS LTD	3GPPMEMBER	ETSI
OSKAR Cesky Mobil a.s.	3GPPMEMBER	ETSI
OTR (OFFICE OF TELECOMMUNICATIONS REGULATION)	3GPPMEMBER	ETSI
PANASONIC Deutschland GmbH (PANASONIC Deutschland GmbH c/o Matsushita European Technology Center (E-TEC))	3GPPMEMBER	ETSI
PHILIPS CONSUMER COMMUNICATION	3GPPMEMBER	ETSI
PORTUGAL TELECOM SGPS SA	3GPPMEMBER	ETSI
PTK CENTERTEL (Polska Telefonia Komorkowa CENTERTEL Sp.z.o.o.)	3GPPMEMBER	ETSI
QUALCOMM EUROPE S.A.R.L.	3GPPMEMBER	ETSI
RIM (Research In Motion Limited)	3GPPMEMBER	ETSI
RITT	3GPPMEMBER	CWTS
Rogers Wireless Inc.	3GPPMEMBER	T1
SAGEM Group (SAGEM Group)	3GPPMEMBER	ETSI
SAMSUNG Electronics (SAMSUNG Electronics Research Institute)	3GPPMEMBER	ETSI
Samsung Electronics Co., Ltd (Samsung Electronics Ind. Co., Ltd.)	3GPPMEMBER	TTA
SBC Communications Inc.	3GPPMEMBER	T1
Secrétariat d' Etat Industrie (Secrétariat d'Etat à l'Industrie)	3GPPMEMBER	ETSI
SHARP Corporation	3GPPMEMBER	ARIB
SHARP Manufacturing France S.A (SHARP Manufacturing France SA)	3GPPMEMBER	ETSI
SIEMENS AG	3GPPMEMBER	ETSI
SIEMENS ATEA NV	3GPPMEMBER	ETSI
SIEMENS ICN S.p.A (SIEMENS Information and Communication Networks SpA)	3GPPMEMBER	ETSI
Siemens K.K.	3GPPMEMBER	TTC
SONERA Corporation	3GPPMEMBER	ETSI
SONY Corporation	3GPPMEMBER	ARIB
SWISSCOM (SWISSCOM SA)	3GPPMEMBER	ETSI
TEKTRONIX GmbH & Co KG	3GPPMEMBER	ETSI
Telcordia Technologies Inc.	3GPPMEMBER	T1
TELECOM ITALIA S.p.A.	3GPPMEMBER	ETSI
TELEFONICA de España S.A. (TELEFONICA DE ESPAÑA SA)	3GPPMEMBER	ETSI
Telekom Austria AG (Telekom Austria Aktiengesellschaft)	3GPPMEMBER	ETSI
TELELOGIC AB	3GPPMEMBER	ETSI

Organisation Name	Organisation Status	Partner
TELENOR AS	3GPPMEMBER	ETSI
TELIA AB	3GPPMEMBER	ETSI
Telrad Networks Ltd.	3GPPMEMBER	ETSI
TruePosition Inc.	3GPPMEMBER	T1
TTP COMMUNICATIONS LTD	3GPPMEMBER	ETSI
Unisys Deutschland GmbH	3GPPMEMBER	ETSI
VIP-NET GSM d.o.o.	3GPPMEMBER	ETSI
VODAFONE Group Plc	3GPPMEMBER	ETSI
VoiceStream Wireless Corp. (VoiceStream Wireless Corporation)	3GPPMEMBER	ETSI
VoiceStream Wireless Corp. (VoiceStream Wireless Corporation)	3GPPMEMBER	T1
Zhongxing Telecom Ltd.	3GPPMEMBER	CWTS

Total Voting Members : 137

Annex D: Status list of Specifications and Reports after TSG SA Meeting #12

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

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
Release 1999 3GPP Specifications and reports							
TS	21.010	reserved	none	R99	SP	VACANT,	3.0.0 dates from June 99
TS	21.100	3G specification handling procedures	1.0.0	R99	-	MEREDITH, John M	Knobbled prior to TSG#8. TSG#8:1.0.0
TS	21.101	3rd Generation mobile system Release 1999 Specifications	3.4.0	R99	SP	MEREDITH, John M	Aprvl by e-mail post TSG#6: 2.1.0 - comments: 2.2.0; TSG#7:2.3.0(SP-000037),2.4.0(SP-000104),2.5(SP-000xxx) 3.0.0 post-TSG#8:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	21.111	USIM and IC card requirements	3.3.0	R99	T3	KALINER, Stefan	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0
TS	21.133	Security Threats and Requirements	3.1.0	R99	S3	CHRISTOFFERSSON, Per	.
TR	21.810	Report on multi-mode UE issues; ongoing work and identified additional work	3.0.0	R99	T2	PERSSON, Sofi	TSG#7:2.0.0 - number changed from 21.910. Not approved. 2.0.0 TSG#8:3.0.0 (2.2.0)
TR	21.900	Technical Specification Group working methods	3.6.0	R99	SP	MEREDITH, John M	TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TR	21.904	UE Capability Requirements (UCR)	3.3.0	R99	T2	SOOD, Prem	TSG-T#7 is the new target for approval as part of R99. TSG#7:2.0.0(TP-000026), 3.0.0 TSG#8:3.1.0 (will not be propagated to R00) TSG#9:3.2.0 TSG#10:3.3.0
TR	21.905	3G Vocabulary	3.2.0	R99	S1	ZARRI, Michele	TSG#7:(SP-000072) 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	21.906	reserved	3.0.0	R99		CLAYTON, Michael	.
TR	21.910	Multi-mode UE issues; categories, principles and procedures	3.0.0	R99	T2	PERSSON, Sofi	TSG#7: 2.0.0, but not approved. Number to be changed to 21.810. TSG#8: Re-instated with changed title and contents. TSG#8:3.0.0 (2.1.0)
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	3.0.0	R99	N2	SMITH, David	Not approved N#6. TSG#8:3.0.0 (2.1.1)
TS	22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	3.2.0	R99	S1	KOKKOLA, Tommi	
TS	22.002	Circuit Bearer Services Supported by a PLMN	3.6.0	R99	S1	CARPENTER, Paul	
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	3.3.0	R99	S1	KOKKOLA, Tommi	
TS	22.004	General on Supplementary Services	3.2.1	R99	S1	CARPENTER, Paul	
TS	22.011	Service accessibility	3.5.0	R99	S1	GALLAIRE, Jean Paul	
TS	22.016	International Mobile Equipment Identities (IMEI)	3.2.0	R99	S1	KOKKOLA, Tommi	
TS	22.022	Personalisation of GSM ME Mobile functionality specification; Stage 1	3.1.0	R99	S3	NGUYEN NGOC, Sebastien	
TS	22.024	Description of Charge Advice Information (CAI)	3.0.1	R99	S1	DWYER, Paul	.
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	3.4.0	R99	S1	TOIVANEN, Annukka	
TS	22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	3.2.1	R99	S1	KOKKOLA, Tommi	
TS	22.038	SIM application toolkit (SAT); Stage 1	3.2.0	R99	S1	CARPENTER, Paul	
TS	22.041	Operator Determined Call Barring	3.3.1	R99	S1	WOLAK, Stephen	
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	3.0.1	R99	S1	DAHLKVIST, Mikael	CR to 3.0.1 not aprvd.
TS	22.043	Support of Localised Service Area (SoLSA); Stage 1	3.1.0	R99	S1	KOKKOLA, Tommi	Jan-2001: SA1 intends to scrap this spec and revert to GSM-only 02.43.
TS	22.053	Tandem Free Operation (TFO); Service Description - Stage 1	3.0.0	R99	S4	NAVARRO, William	2001-01-22: Scrapped. 02.53 is retained.

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	3.0.1	R99	S1	CATALDO, Mark	.
TS	22.060	General Packet Radio Service (GPRS); Stage 1	3.5.0	R99	S1	CARPENTER, Paul	
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	3.2.0	R99	S1	CLAYTON, Michael	
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	3.0.1	R99	S1	SWETINA, Joerg	.
TS	22.071	Location Services (LCS); Stage 1	3.3.0	R99	S1	WOHLERT, Randolph	
TS	22.072	Call Deflection (CD); Stage 1	3.0.1	R99	S1	RAUCH, Horst	.
TS	22.078	CAMEL; Stage 1	3.8.0	R99	S1	GRECH, Michel	
TS	22.079	Support of Optimal Routing; Stage 1	3.0.1	R99	S1	CLAYTON, Michael	.
TS	22.081	Line Identification Supplementary Services; Stage 1	3.2.0	R99	S1	AHNBERG, Tomas	
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	3.0.1	R99	S1	EVEN, Anne	.
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	3.0.1	R99	S1	CLAYTON, Michael	.
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	3.0.1	R99	S1	CLAYTON, Michael	.
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	3.1.0	R99	S1	CLAYTON, Michael	.
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	3.1.0	R99	S1	DWYER, Paul	
TS	22.087	User-to-user signalling (UUS); Stage 1	3.1.0	R99	S1	BRADEN, Christian	
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	3.0.2	R99	S1	CLAYTON, Michael	.
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	3.1.0	R99	S1	KOKKOLA, Tommi	
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	3.1.0	R99	S1	CLAYTON, Michael	
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	3.0.1	R99	S1	CLAYTON, Michael	.
TS	22.094	Follow Me Stage 1	3.1.0	R99	S1	BERGMANN, Ansgar	Transfer>TSG#6; Anticipate that v3.y.z will be withdrawn. Apr2001: Unwithdrawn.
TS	22.096	Name identification supplementary services; Stage 1	3.0.1	R99	S1	CLAYTON, Michael	.
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	3.2.0	R99	S1	DWYER, Paul	
TS	22.100	UMTS Phase 1	3.6.0	R99	S1	EVEN, Anne	
TS	22.101	UMTS Service principles	3.13.0	R99	S1	DWYER, Paul	
TS	22.105	Services & Service capabilities	3.10.0	R99	S1	EVEN, Anne	TSG#7: 3.8.0 TSG#8:3.9.0 TSG#10:3.10.0
TS	22.115	Service Aspects Charging and billing	3.3.0	R99	S1	MONTEGROSSO, Emanuele	TSG#7: 3.3.0
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment; Stage 1	3.3.0	R99	S1	OGUNBEKUN, Jumoke	TSG#7: 3.2.0 TSG#8:3.3.0
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	3.5.0	R99	S1	SAMPSON, Nick	TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0
TS	22.135	Multicall Stage 1	3.4.0	R99	S1	KOKKOLA, Tommi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	22.140	Multimedia Messaging Service; Stage 1	3.1.0	R99	S1	LAUMEN, Josef	TSG#8:3.1.0
TR	22.907	Terminal concepts	3.1.3	R99	-	TOLVANEN, Mika	Withdrawn (Clayton 2000-02-11)
TR	22.924	Charging and accounting mechanisms	3.1.1	R99	-	MONTEGROSSO, Emanuele	.
TR	22.925	Quality of service and network performance	3.1.1	R99	-	ERIKSSON, Olle	.
TR	22.945	Study of provision of fax service in GSM and UMTS	3.0.0	R99	T2	COLBAN, Erik	.
TR	22.960	Mobile multimedia services	3.0.1	R99	-	AHNBERG, Tomas	.
TR	22.970	Virtual Home Environment Report	3.0.1	R99	-	OGUNBEKUN, Jumoke	.
TR	22.971	Automatic establishment of roaming relationships	3.1.1	R99	S1	MONTEGROSSO, Emanuele	.

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TR	22.972	Circuit-switched multimedia	0.0.0	R99	-	CLAYTON, Michael	Withdrawn (Clayton 2000-02-11)
TR	22.975	Advanced addressing	3.1.0	R99	S1	KLEIER, Stephan	.
TS	23.002	Network Architecture	3.4.0	R99	S2	SULTAN, Alain	Open issues to be finalized by TSG#7. TSG#7: 3.3.0 TSG#10:3.4.0
TS	23.003	Numbering, Addressing and Identification	3.9.0	R99	N4	GAASVIK, Per-Ola	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
TS	23.007	Restoration procedures	3.4.0	R99	N4	RUSSELL, Nick	TSG#7: 3.3.0 TSG#8:3.4.0
TS	23.008	Organisation of subscriber data	3.6.0	R99	N4	BAUER, Rolf	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	23.009	Handover procedures	3.7.0	R99	N1	FARHOUMAND, Rouzbeh	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	23.010	GSM Public Land Mobile Network (PLMN) Connection Types	3.0.0	R99	-	DETTNER, Harald	TSG#7:3.0.0 - later scrapped
TS	23.011	Technical Realization of Supplementary Services - General Aspects	3.1.0	R99	N4	CONRAD, Alan	. TSG#9:3.1.0
TS	23.012	Location management procedures	3.3.0	R99	N4	VACANT,	TSG#7: 3.2.0 TSG#8:3.3.0
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	3.1.0	R99	N1	ZAUS, Robert	.
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	3.1.0	R99	N4	PARK, Ian David Chalmers	.
TS	23.016	Subscriber data management; Stage 2	3.7.0	R99	N4	VACANT,	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#11:3.7.0
TS	23.018	Basic Call Handling - Technical realization	3.8.0	R99	N4	PARK, Ian David Chalmers	
TS	23.022	Functions related to Mobile Station (MS) in idle mode	3.1.0	R99	-	ANDERSEN, Niels Peter Skov	3.1.0 dates from June 99
TS	23.032	Universal Geographical Area Description (GAD)	3.1.0	R99	S2	HIETALAHTI, Hannu	TSG#7: 3.1.0
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	3.3.0	R99	N1	TEKBULUT, Haluk	TSG#7: 3.2.0 TSG#10:3.3.0
TS	23.038	Alphabets & Language	3.3.0	R99	T2	HARRIS, Ian	additional CR for R99 on SMS enhanced message content expected at TSG-T#7. No, evidently not.
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	3.2.0	R99	T2	HARRIS, Ian	. TSG#9:3.2.0
TS	23.040	Technical realisation of Short Message Service	3.5.0	R99	T2	HARRIS, Ian	additional CR for R99 on SMS enhanced message content expected at TSG-T#7: TSG#7: 3.4.0 TSG#8:3.5.0
TS	23.041	Technical Realization of Cell Broadcast Service	3.4.0	R99	T2	HARRIS, Ian	additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#7: 3.2.0 TSG#9:3.3.0
TS	23.042	Compression algorithm for SMS	3.1.0	R99	T2	HARRIS, Ian	2001-01-23: test vectors provided = same file as for 03.42 v7.1.1.
TS	23.042	Compression algorithm for SMS	3.1.0	R99	T2	HARRIS, Ian	2001-01-23: test vectors provided = same file as for 03.42 v7.1.1.
TS	23.043	Support of Videotex	3.0.0	R99	-	DETTNER, Harald	3.0.0 Apr 99 - later scrapped
TS	23.044	Support of Teletex	3.0.0	R99	-	DETTNER, Harald	3.0.0 Apr 99 - later scrapped
TS	23.045	Technical Realization of Facsimile Group 3 Service - transparent	3.0.0	R99	-	DI TRIA, Paolo	3.0.0 Apr 99 - reverts to 03.45 v8.0.0
TS	23.046	Technical realisation of facsimile Group 3 service - non-transparent	3.0.0	R99	-	BOSWARTHICK, David	3.0.0 Apr 99
TS	23.054	Shared Interworking Functions; Stage 2	3.0.0	R99	N3	ROSTÖ, Tommy	.
TS	23.057	Mobile Execution Environment (MExE)	3.4.0	R99	T2	CATALDO, Mark	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#11:3.4.0
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	3.8.0	R99	S2	DELECKI, Andrew	Open issues to be finalized by TSG#7 (expect 3.2.1 2000-01-12). TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	3.3.0	R99	N4	LOPEZ SORIA, Luis	TSG#7: 3.2.0 TSG#8:3.3.0
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	3.3.0	R99	N4	PERLICK, Vivien	TSG#7: 3.1.0 TSG#10:3.2.0
TS	23.069	Voice Broadcast service (VBS); Stage 2	3.0.0	R99	N1	DETTNER, Harald	3.0.0 Apr 99 - Reverts to 03.69 R99.
TS	23.070	Routeing of calls to/from Public Data Networks (PDN) and the GSM Public Land Mobile Network (PLMN)	3.0.0	R99	-	KOSYDAR, L	withdrawn N#6
TS	23.071	Location services (LCS) stage 2	3.0.0	R99	-	STEER, David G	.
TS	23.072	Call Deflection Supplementary Service; Stage 2	3.3.0	R99	N4	CONRAD, Alan	.
TS	23.073	Support of Localised Service Area (SoLSA); Stage 2	3.0.1	R99	N4	HOMANN, Christian	.
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	3.9.0	R99	N2	HOMANN, Christian	TSG#7:Aprvl CRs 56r3 & 18 by e-mail by 31-mar-00. 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
TS	23.079	Support of Optimal Routeing - Phase 1; Stage 2	3.6.0	R99	N4	PARK, Ian David Chalmers	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0
TS	23.081	Line Identification Supplementary Services; Stage 2	3.1.0	R99	N4	VACANT,	TSG#8:3.1.0
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	3.6.0	R99	N4	VACANT,	TSG#7: 3.2.0 TSG#8:3.0 TSG#9:3.4.0 TSG#10:3.5.0
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	3.2.0	R99	N4	RUSSELL, Nick	TSG#9:3.2.0
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	3.2.0	R99	N4	RUSSELL, Nick	. TSG#9:3.2.0
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	3.1.0	R99	N4	DETTNER, Harald	. TSG#9:3.1.0
TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	3.1.0	R99	N4	DETTNER, Harald	. TSG#9:3.1.0
TS	23.087	User-to-User Signalling (UUS); Stage 2	3.1.0	R99	N4	DETTNER, Harald	. TSG#9:3.1.0
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	3.2.0	R99	N4	DETTNER, Harald	TSG#7: 3.2.0 (not approved) TSG#9:3.2.0
TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	3.2.0	R99	N4	CROOK, Mick	. TSG#9:3.2.0
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	3.2.0	R99	N4	RUSSELL, Nick	. TSG#9:3.2.0
TS	23.093	Call Completion to Busy Subscriber (CCBS); Stage 2	3.2.0	R99	N4	DETTNER, Harald	. TSG#9:3.2.0
TS	23.094	Follow Me Stage 2	3.2.0	R99	N4	SWETINA, Joerg	Transfer>TSG#6. TSG#7: 3.1.0 TSG#9:3.2.0
TS	23.096	Name Identification Supplementary Service; Stage 2	3.0.1	R99	N4	DETTNER, Harald	.
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	3.1.1	R99	N4	HEWSON, Ruth	TSG#7: 3.1.1
TS	23.101	General UMTS Architecture	3.1.0	R99	S2	OLSSON, Magnus	. TSG#10:3.1.0
TS	23.107	Quality of Service, Concept and Architecture	3.6.0	R99	S2	GREIS, Marc	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	3.2.0	R99	N1	SALKINTZIS, Apostolis	TSG#7: 3.2.0
TS	23.110	UMTS Access Stratum Services and Functions	3.4.0	R99	S2	LOPEZ-TORRES, Oscar	TSG#7: 3.4.0
TS	23.116	Super-Charger technical realization; Stage 2	3.1.0	R99	N4	ALLEN, Nicholas	TSG#7:2.1.0, 3.0.0
TS	23.119	Gateway Location Register (GLR); Stage2	4.0.0	R99	N4	SAWADA, Masahiro	Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99. TSG#7:2.0.0 (NP-000108) 3.0.0
TS	23.119	Gateway Location Register (GLR); Stage2	4.0.0	R99	N4	SAWADA, Masahiro	Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99. TSG#7:2.0.0 (NP-000108) 3.0.0
TS	23.121	Architecture Requirements for release 99	3.5.1	R99	S2	DANIEL, Elizabeth	TSG#7: 3.3.0 TSG#9:3.4.0 TSG#10:3.5.0
TS	23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	3.7.0	R99	N1	HIETALAHTI, Hannu	Created at TSG#6, CR@TSG#6, Was briefly 23.022. But regenerated from 03.22 in June99. Expect 3.1.0 to correct erroneous incorporation of a CR. Expect 3.1.1 to undo erroneously incorporated CR. TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	23.127	Virtual Home Environment; Stage 2	3.4.0	R99	S2	GOURRAUD, Christophe	TSG#7:2.0.0 (SP-000089) 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0
TS	23.135	Multicall; Stage 2	3.2.0	R99	N4	MITAMURA, Kazuo	TSG#7:1.1.0->3.0.0 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0
TS	23.140	Multimedia Messaging Service (MMS)	3.0.1	R99	T2	LAUMEN, Josef	TSG#7: 2.0.0(TP-000028) 3.0.0
TS	23.171	Functional stage 2 description of location services in UMTS	3.4.0	R99	S2	KÅLL, Jan	TSG#7:2.0.0 (SP-000090), 3.0.0 TSG#8:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TR	23.814	Separating RR and MM specific parts of the MS Classmark	3.1.0	R99	N1	YOKOTA, Fumihiko	TSG #5: 3.0.0: accidentally 3.1.0, but no tech change.
TR	23.908	Technical report on Pre-Paging	3.0.1	R99	N4	VACANT,	.
TR	23.909	Technical report on the Gateway Location Register	3.0.1	R99	N4	PARK, Ian David Chalmers	.
TR	23.910	Circuit switched data bearer services	3.5.0	R99	N3	BRAUN, Achim	TSG#6: 1.0.0 TSG#7:2.0.0->3.0.0 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TR	23.911	Technical report on Out-of-band transcoder control	3.0.1	R99	N4	BOSWARTHICK, David	.
TR	23.912	Technical report on Super-Charger	3.0.2	R99	N4	SHARP, Iain	.
TS	23.920	Evolution of the GSM platform towards UMTS	3.1.0	R99	-	DANIEL, Elizabeth	Stopped TSG#6
TR	23.922	Architecture for an All IP network	1.0.0	R99	S2	DANIEL, Elizabeth	Was suspected to be v3.0.0, but evidently not so. Sultan, Apr-2001: abandoned in early 2000; replaced by 23.228 and 23.221.
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	3.0.0	R99	S2	HUBBARD, Elisabeth	July 2001: (Sultan) contents out of date. Replaced by 23.228.
TR	23.925	UMTS Core network based ATM transport	0.2.0	R99	S2	ROUZ, Adel	.
TR	23.925	UMTS Core network based ATM transport	0.2.0	R99	S2	ROUZ, Adel	.
TR	23.925	UMTS Core network based ATM transport	0.2.0	R99	S2	ROUZ, Adel	.
TR	23.927	VHE, Open Service Architecture	0.1.0	R99	-	CLAYTON, Michael	Withdrawn (Clayton 2000-02-11).
TR	23.930	Iu Principles	3.0.0	R99	S2	AXERUD, Bo	.
TR	23.960	Framework of network functions to support multimedia services	0.1.0	R99	-	GABE, Axel	.
TR	23.972	Circuit Switched Multimedia Telephony	3.0.0	R99	N1	KAUHANEN, Timo	TSG#7:1.0.0 (NP-000103), 3.0.0
TS	24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	3.1.0	R99	N1	ANDERSEN, Niels Peter Skov	TSG#7: 3.0.0 TSG#10:3.1.0
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	3.7.0	R99	N1	HOWELL, Andrew	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	3.8.0	R99	N1	HOWELL, Andrew	
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	3.1.0	R99	N4	ANDERSEN, Niels Peter Skov	TSG#8:3.1.0
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	3.6.0	R99	N1	ANDERSEN, Niels Peter Skov	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	3.0.0	R99	G2	AL -BAKRI, Ban	Replaced by 04.12 R99.
TS	24.022	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	3.4.0	R99	N3	KLEHN, Norbert	TSG#8:3.3.0 TSG#9:3.4.0
TS	24.030	Location Services LCS Stage 3 SS (MO-LR)	3.2.0	R99	N4	GARAPATY, Sonia	TSG#7:Decision to create. TSG#8:3.1.0

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
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	BOSWARTHICK, David	2000-02-14: To revert to 2g only 04.65, 24.165 may be required. 2000-11-08 withdrawn; not required for 3G.
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	3.2.0	R99	N4	PERLICK, Vivien	. TSG#10:3.1.0
TS	24.068	Group Call Control (GCC) Protocol	3.1.0	R99	N1	GARAPATY, Sonia	GSM only for R99.
TS	24.069	Broadcast Call Control (BCC) protocol	3.1.0	R99	N1	GARAPATY, Sonia	GSM only for R99.
TS	24.072	Call Deflection Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	3.5.0	R99	N4	DETTNER, Harald	T1P1 CR @TSG#6. TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0
TS	24.081	Line Identification Supplementary Service; Stage 3	3.1.0	R99	N4	DETTNER, Harald	TSG#8:3.1.0
TS	24.082	Call Forwarding Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	3.0.0	R99	N4	RUSSELL, Nick	.
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	3.0.0	R99	N4	RUSSELL, Nick	.
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.087	User-to-User Signalling (UUS); Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	3.0.0	R99	N4	BRUSS, Jörg	.
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	3.0.0	R99	N4	RUSSELL, Nick	.
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.094	Follow Me; Stage 3	none	R99	-	BERGMANN, Ansgar	USSD does all. No draft expected.
TS	24.096	Name Identification Supplementary Service; Stage 3	3.0.0	R99	N4	DETTNER, Harald	.
TS	24.135	Multicall supplementary service; Stage 3	3.1.0	R99	N4	MITAMURA, Kazuo	TSG#7:1.0.0->3.0.0 TSG#8:3.1.0
TS	25.053	Tandem Free Operation (TFO); Service description; Stage 2	none	R99	-	MEREDITH, John M	no draft ever materialised
TS	25.101	UE Radio transmission and reception (FDD)	3.7.0	R99	R4	FERNANDES, Edgar	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.102	UE Radio transmission and reception (TDD)	3.7.0	R99	R4	KOTTKAMP, Meik	
TS	25.103	RF parameters in support of RRM	2.0.0	R99	-	FRANCESCHI, Olle	Withdrawn
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	3.7.0	R99	R4	SKÖLD, Johan	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	3.7.0	R99	R4	KOTTKAMP, Meik	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.113	Base station EMC	3.5.0	R99	R4	BARNES, David	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.123	Requirements for support of radio resource management (TDD)	3.6.0	R99	R4	RONCHINI, M. Cristina	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.133	Requirements for support of radio resource management (FDD)	3.6.0	R99	R4	RONCHINI, M. Cristina	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.141	Base station conformance testing (FDD)	3.6.0	R99	R4	NAKAMURA, Takaharu	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.142	Base station conformance testing (TDD)	3.6.0	R99	R4	MEYER, Juergen	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.201	Physical layer -General Description	3.1.0	R99	R1	TOSKALA, Antti	TSG#5: 3.0.0; edito post#6: 3.0.1. TSG#7: 3.0.2 TSG#8:3.1.0

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TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	3.7.0	R99	R1	WILDE, Andreas	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.212	Multiplexing and channel coding (FDD)	3.6.0	R99	R1	TANAKA, Yoshinori	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0
TS	25.213	Spreading and modulation (FDD)	3.6.0	R99	R1	CHAMBERS, Peter	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.214	Physical layer procedures (FDD)	3.7.0	R99	R1	IKEDA, Shinobu	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.215	Physical layer; Measurements (FDD)	3.7.0	R99	R1	IKEDA, Shinobu	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	3.7.0	R99	R1	HIRAMATSU, Katsuhiko	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.222	Multiplexing and channel coding (TDD)	3.6.0	R99	R1	KAHTAVA, Jussi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.223	Spreading and modulation (TDD)	3.6.0	R99	R1		TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#11:3.5.0
TS	25.224	Physical layer procedures (TDD)	3.7.0	R99	R1	OESTREICH, Stefan	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.225	Physical layer; Measurements (TDD)	3.7.0	R99	R1	IKEDA, Shinobu	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.301	Radio Interface Protocol Architecture	3.8.0	R99	R2	GRANZOW, Wolfgang	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#11:3.7.0
TS	25.302	Services provided by the physical layer	3.9.0	R99	R2	MIHAILESCU, Claudiu	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
TS	25.303	UE functions and inter-layer procedures in connected mode	3.8.0	R99	R2	RINNE, Mikko J	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	3.7.0	R99	R2	MAHKONEN, Marko	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.305	Stage 2 functional specification of UE positioning in UTRAN	3.6.0	R99	R2	MIHAILESCU, Claudiu	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.306	UE Radio Access capabilities definition	3.2.0	R99	R2	BERGGREN, Anders	Converted from TR 25.926 v3.2.0 Nov 00. TSG#10:3.0.0 TSG#11:3.1.0
TS	25.307	Requirements on UE supporting a release-independent frequency band	2.0.0	R99	R2	FAUCONNIER, Denis	Expect continual updates each time a new band is allowed.
TS	25.321	Medium Access Control (MAC) Protocol Specification	3.8.0	R99	R2	GESSNER, Christina	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0
TS	25.322	Radio Link Control (RLC) Protocol Specification	3.7.0	R99	R2	MADELAINE, Sebastien	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	3.5.0	R99	R2	HANS, Martin	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#11:3.4.0
TS	25.324	Broadcast/Multicast Control (BMC)	3.4.0	R99	R2	KRISCHAN, Peter	TSG#7: 3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TS	25.331	Radio Resource Control (RRC) Protocol Specification	3.7.0	R99	R2	KUCHIBHOTLA, Ravi	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.401	UTRAN Overall Description	3.7.0	R99	R3	CALMEL, Jean-Marie	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.402	Synchronisation in UTRAN Stage 2	3.6.0	R99	R3	PIOLINI, Flavio	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	3.4.0	R99	R3	TOWNEND, Richard	TSG#7: 3.2.0 TSG#10:3.3.0
TS	25.411	UTRAN Iu interface Layer 1	3.5.0	R99	R3	BRANDT, Achim V.	TSG#7: 3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TS	25.412	UTRAN Iu interface signalling transport	3.6.0	R99	R3	THAKARE, Kiran	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0
TS	25.413	UTRAN Iu interface RANAP signalling	3.6.0	R99	R3	JUSSILA, Jyrki	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	25.414	UTRAN Iu interface data transport & transport signalling	3.7.0	R99	R3	COMSTOCK, David	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0
TS	25.415	UTRAN Iu interface user plane protocols	3.7.0	R99	R3	MAUPIN, Alain	
TS	25.419	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	3.5.0	R99	R3	TAYLOR, Carolyn	
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	3.3.0	R99	R3	THAKARE, Kiran	TSG#7: 3.1.0 TSG#9:3.2.0 TSG#11:3.3.0
TS	25.421	UTRAN Iur interface Layer 1	3.1.0	R99	R3	BRANDT, Achim V.	. TSG#11:3.1.0
TS	25.422	UTRAN Iur interface signalling transport	3.5.0	R99	R3	THAKARE, Kiran	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#10:3.5.0
TS	25.423	UTRAN Iur interface RNSAP signalling	3.6.0	R99	R3	RUNE, Göran	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.2.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	3.6.0	R99	R3	DREVON, Nicolas	TSG#7:cr was to 3.0.0 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	3.4.0	R99	R3	DREVON, Nicolas	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	3.6.0	R99	R3	KEKKI, Sami	TSG#7:cr was to 3.0.0 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	3.7.0	R99	R3	LONGONI, Fabio	
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	3.6.0	R99	R3	WILSON, Mick	
TS	25.431	UTRAN Iub interface Layer 1	3.1.0	R99	R3	BRANDT, Achim V.	. TSG#11:3.1.0
TS	25.432	UTRAN Iub interface signalling transport	3.1.0	R99	R3	WILSON, Mick	.
TS	25.433	UTRAN Iub interface NBAP signalling	3.6.0	R99	R3	ISHIKAWA, Nobutaka	
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	3.5.0	R99	R3	ALDEN, Magnus	
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	3.7.0	R99	R3	CALMEL, Jean-Marie	
TS	25.442	UTRAN Implementation Specific O&M Transport	3.1.0	R99	R3	RECKER, Stephan	TSG#7: 3.1.0
TR	25.831	Study Items for future release	0.0.2	R99	R3	DREVON, Nicolas	.
TR	25.832	Manifestations of Handover and SRNS relocation	3.0.0	R99	R3	TOWNEND, Richard	.
TR	25.833	Physical layer items not for inclusion in Release 99	1.1.0	R99	R1	IKEDA, Shinobu	TSG#8:1.1.0
TR	25.853	Delay budget within the access stratum	3.1.0	R99	R3	DELL'ACQUA, Massimo	. TSG#10:3.0.0 (is evidently R99 not Rel-4) TSG#11:3.1.0
TR	25.921	Guidelines and principles for protocol description and error handling	3.4.0	R99	R2	GILLY, Sylviane	TSG#7: 3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TR	25.922	Radio Resource Management Strategies	3.5.0	R99	R2	MAGNANI, Nicola Pio	TSG#7: 3.1.0 TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TR	25.923	Stage 2 Functional Specification of Location Services in UTRAN	1.4.0	R99	-	STEER, David G	.
TR	25.925	Radio Interface for Broadcast/Multicast Services	3.4.0	R99	R2	KRISCHAN, Peter	TSG#7: 3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TR	25.926	UE Radio Access capabilities definition	3.3.0	R99	R2	LUNDSJÖ, Johan	TSG#7:2.0.0 (RP-000052), 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0. Nov00->25.306 but first ->TSG#10:3.3.0
TR	25.931	UTRAN Functions, examples on signalling procedures	3.4.0	R99	R3	SCARRONE, Enrico	
TR	25.941	Document structure	3.1.0	R99	R4	TAKAMI, Tadao	.
TR	25.942	RF system scenarios	3.1.0	R99	R4	BENABDALLAH, Nadia	TSG#7:2.1.3 2.1.3 TSG#9:2.3.0 not intended for immediate allocation to a particular release, so release set to 'unknown'. TSG#11:3.0.0

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TR	25.944	Channel coding and multiplexing examples	3.5.0	R99	R1	IKEDA, Shinobu	TSG#7:1.0.1, 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TR	25.990	Vocabulary for UTRAN	3.0.0	R99	R4	OKRAH, Peter	.
TS	26.071	AMR speech Codec; General description	3.0.1	R99	S4	EKUDDEN, Erik	.
TS	26.073	AMR speech Codec; C-source code	3.2.0	R99	S4	EKUDDEN, Erik	approved TSG#6. TSG#7: 3.1.0 TSG#11:3.2.0
TS	26.074	AMR speech Codec; Test sequences	3.1.1	R99	S4	EKUDDEN, Erik	
TS	26.075	AMR speech Codec; Performance Charaterization of the GSM AMR Speech Codec	1.2.0	R99	-	EKUDDEN, Erik	replaced by 26.975
TS	26.090	AMR speech Codec; Transcoding Functions	3.1.0	R99	S4	EKUDDEN, Erik	.
TS	26.091	AMR speech Codec; Error concealment of lost frames	3.1.0	R99	S4	EKUDDEN, Erik	.
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	3.0.1	R99	S4	EKUDDEN, Erik	.
TS	26.093	AMR speech Codec; Source Controlled Rate operation	3.3.0	R99	S4	EKUDDEN, Erik	TSG#8:3.2.0 TSG#10:3.3.0
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	3.0.0	R99	S4	USAI, Paolino	.
TS	26.101	AMR speech Codec; Frame Structure	3.2.0	R99	S4	HAGQVIST, Jari	TSG#7: 3.1.0
TS	26.102	AMR speech Codec; Interface to Iu and Uu	3.3.0	R99	S4	NAVARRO, William	TSG#7: 3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	26.103	Codec lists	3.0.0	R99	S4	HELLWIG, Karl	.
TS	26.104	AMR speech Codec; Floating point C-Code	3.2.1	R99	S4	USAI, Paolino	New at TSG#6. TSG#7:0.3.0 (SP-000022) 0.3.0 TSG#8:3.0.0 (1.0.0) TSG#10:3.1.0
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	3.1.0	R99	S4	ARONSON, Barry	. TSG#11:3.1.0
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	3.4.0	R99	S4	ARONSON, Barry	TSG#8:3.2.0 TSG#9:3.3.0 TSG#10:3.4.0
TS	26.112	Codec(s) for Circuit Switched Multimedia Telephony Service; Call Set-up Requirements	1.1.0	R99	-	HONKO, Harri	June99: 1.1.0
TS	26.115	Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	0.0.1	R99	S4	USAI, Paolino	Feb00: 0.0.1 - Withddrawn in favour of 26.915; will be reinstated for Rel-4.
TS	26.121	Technical Specification for Tandem Free Operation within 3G networks	none	R99	-	OHANA, Alain	.
TS	26.122	Technical Specification for Tandem Free Operation between 3G and 2G networks	none	R99	-	OHANA, Alain	.
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	3.2.0	R99	S4	GOETZ, Ian	TSG#8:3.1.0 TSG#11:3.2.0
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	3.2.0	R99	S4	GOETZ, Ian	Feb00: 0.0.1 TSG#8:3.0.0 (1.0.0) TSG#9:3.1.0 TSG#11:3.2.0
TS	26.133	Wide band speech telephony terminal acoustic characteristics	none	R99	S4	BARRETT, Paul	.
TS	26.134	Wide band speech telephony terminal acoustic test specification	none	R99	S4	BARRETT, Paul	.
TS	26.135	Terminal Display and Camera Characteristics for H.324 Narrow-band Video Telephony	none	R99	S4	USAI, Paolino	.
TS	26.136	Terminal Display and Camera Test Specifications for H.324 Narrow-band Video Telephony	none	R99	S4	USAI, Paolino	.
TS	26.137	Terminal Display and Camera Characteristics for H.323 Narrow-band Video Telephony	none	R99	S4	USAI, Paolino	.

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	26.138	Terminal Display and Camera Test Specifications for H.323 Narrow-band Video Telephony	none	R99	S4	USAI, Paolino	.
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	3.3.0	R99	S4	HAAVISTO, Petri	Oct00:3.2.1 TSG#10:3.3.0
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	3.0.0	R99	S4	FRANCESCHI, Olle	TSG#7:2.0.0 (SP-000019), 3.0.0
TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	0.0.1	R99	S4	HONKO, Harri	No work, will never appear as 3.0.0 (Usai, Mar 2001) 2001-07:Usai: withdawn.
TR	26.915	Echo Control For Speech and Multi-Media Services	3.0.0	R99	S4	GOETZ, Ian	TSG#7:1.0.0 (SP-000020), 3.0.0
TR	26.975	Performance characterization of the AMR speech codec	3.0.0	R99	S4	EKUDDEN, Erik	was 25.075; Feb00: 1.1.0. TSG#7: 1.1.0 TSG#11:3.0.0
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	3.9.0	R99	N3	WIIK, Rune Werner	
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	3.5.0	R99	N3	WIIK, Rune Werner	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	3.5.0	R99	N3	WIIK, Rune Werner	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0
TS	27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	3.1.0	R99	T2	HARRIS, Ian	.
TS	27.007	AT command set for 3G User Equipment (UE)	3.9.0	R99	T2	NOVAK, Lars	TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	3.3.0	R99	T2	NOVAK, Lars	additional CR for R99 on UMTS amendments expected at TSG-T#7. TSG#7: 3.3.0
TS	27.060	GPRS Mobile Stations supporting GPRS	3.5.0	R99	N3	HEATON, Graham	TSG#7: 3.4.0 TSG#11:3.5.0
TS	27.103	Wide Area Network Synchronization	3.1.0	R99	T2	LOCKHART, Rob	TSG#8:3.1.0 but this CR not impementable. TSG#9:3.1.0
TR	27.901	Report on Terminal Interfaces - An Overview	3.0.0	R99	T2	REX, Thomas	.
TR	27.903	Discussion of synchronization standards	3.0.0	R99	T2	LOCKHART, Rob	.
TS	28.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	3.0.0	R99	S4	SUERBAUM, Clemens	withdrawn from R99.
TS	29.002	Mobile Application Part (MAP)	3.9.0	R99	N4	DETTNER, Harald	
TS	29.004	Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)	3.0.0	R99	-	BOSWARTHICK, David	May 99: 3.0.0
TS	29.005	Interworking between the Public Land Mobile Network (PLMN) and the Packet Switched Public Data Network (PSPDN) for Packet Assembly/Disassembly (PAD) facility access	3.0.0	R99	-	BOSWARTHICK, David	TSG#3: 3.0.0
TS	29.006	Interworking between a PLMN and the ISDN or PSTN for support of Packet Switched data transmission services	3.0.0	R99	-	BRAUN, Achim	withdrawn N#6
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	3.8.0	R99	N3	KLEHN, Norbert	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
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)	3.6.0	R99	N4	VACANT,	TSG#7: 3.2.0 TSG#9:3.3.0 TSG#10:3.4.0 TSG#11:3.5.0
TS	29.011	Signalling Interworking for Supplementary Services	3.0.0	R99	N4	DETTNER, Harald	.

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TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	3.0.0	R99	N4	DETTNER, Harald	.
TS	29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	3.1.0	R99	N1	MILLS, Duncan	. TSG#9:3.1.0
TS	29.018	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	3.6.0	R99	N1	MILLS, Duncan	TSG#7: 3.3.0 TSG#9:3.4.0 TSG#10:3.5.0 TSG#11:3.6.0
TS	29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	3.9.0	R99	N4	YOUNG, Michael	
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	3.6.0	R99	N3	WILD, Johanna	TSG#7: 3.3.0 TSG#9:3.4.0 TSG#11:3.5.0
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	3.8.0	R99	N2	NOLDUS, Rogier	
TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	3.1.0	R99	R3	VESELY, Alexander	TSG#8:3.0.0 (2.0.0) TSG#10:3.1.0
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	3.0.0	R99	N4	AIKAWA, Shinichiro	Functionally frozen by CN#6. TSG#7:2.0.0 (TP-000107) 3.0.0
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	3.1.0	R99	N4	MITAMURA, Kazuo	Functionally frozen by CN#6, CN#7 is the new target for approval as part of R99. TSG#7:2.0.0 3.0.0 TSG#9:3.1.0
TS	29.198	Open Service Architecture (OSI) Application Programming Interface (API) - Part 1	3.4.0	R99	N5	KLOSTERMANN, Lucas	TSG#7:1.0.0 (TP-000056) 1.0.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:delay likely due to unimplementable CRs. TSG#10:3.2.0 TSG#11:3.3.0
TR	29.998	Open Services Architecture API part 2	3.2.0	R99	N5	KLOSTERMANN, Lucas	TSG#7:1.0.0 (TP-000057) 1.0.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:3.2.0
TR	30.531	Work Plan and Study Items - RAN WG3	0.9.0	R99	R3	TAYLOR, Carolyn	TSG#7:0.7.0 (RP-000142) 0.7.0 TSG#8:0.8.0 TSG£9:0.8.1 TSG#9:0.8.2 TSG#10:RP-000688 TSG#10:0.8.5 TSG#11:0.8.8
TS	31.101	UICC-terminal interface; Physical and logical characteristics	3.3.0	R99	T3	VESTERGAARD, Peter	TP-09: txferred from T2 to ETSI SCP as TR 102 221. So removed from 3gpp spec list. Sander, May 2001: no, not withdrawn. So re-instated.
TS	31.102	Characteristics of the USIM Application	3.6.0	R99	T3	HEIM, Christian	
TS	31.110	Numbering system for telecommunication IC card applications	3.2.0	R99	T3	DIETRICH, Christian	
TS	31.111	USIM Application Toolkit (USAT)	3.5.0	R99	T3	WOODSEND, Kristian	
TS	31.120	UICC-terminal interface; Physical, electrical and logical test specification	3.0.0	R99	T3	MAESER, Torsten	TP-11:moved to ETSI-SCP. TP-12: reinstated.
TS	31.121	UICC-terminal interface; USIM application test specification	3.1.0	R99	T3	AFCHAR, Ramin	
TS	31.122	USIM conformance test specification	3.0.0	R99	T3	KNIGHT, Simon	
TR	31.900	SIM/USIM internal and external interworking aspects	3.0.0	R99	T3	KALINER, Stefan	
TS	32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	3.4.0	R99	S5	KOBYLARZ, Thaddeus	Title change. TSG#7: TSG#8:3.1.0->3.2.0 when fully implemented.
TS	32.008	Subscriber and Equipment trace	none	R99	-	SJÖBLOM, Kai	Not to be produced.
TS	32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	3.6.0	R99	S5	KOBYLARZ, Thaddeus	
TS	32.101	3G Telecom Management principles and high level requirements	3.4.0	R99	S5	TRUSS, Michael	

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TS	32.102	3G Telecom Management Architecture	3.2.0	R99	S5	BERGGREN, Tommy	
TS	32.104	3G Performance Management	3.4.0	R99	S5	NENNER, Karl-Heinz	
TS	32.106	3G Configuration Management	3.0.1	R99	S5	TOVINGER, Thomas	SP-08: multipart split from parent 3.0.1
TS	32.106-1	Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	3.1.0	R99	S5	PIRT, Trevor	SP-08: multipart split from parent 3.0.1
TS	32.106-2	Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	3.3.0	R99	S5	TSE, Edwin	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	32.106-3	Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	3.3.0	R99	S5	SCHEER, Randal	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	32.106-4	Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	3.1.0	R99	S5	ZHOU, Di	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	3.2.0	R99	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99) TSG#9:1.0.0 TSG#10:2.0.0=SP-000513 TSG#10:3.0.0 TSG#11:3.1.0
TS	32.106-6	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	3.2.0	R99	S5	ZHOU, Di	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99) TSG#10:1.0.0=SP-000514 TSG#10:3.0.0 TSG#11:3.1.0
TS	32.106-7	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1	3.2.0	R99	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 (not certain this part will be R99) TSG#10:1.0.0=SP-000515 TSG#10:3.0.0 TSG#11:3.1.0
TS	32.106-8	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	3.2.0	R99	S5	TOVINGER, Thomas	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	32.111	3G Fault Management	3.2.0	R99	S5	CICCHITTO, Gaetano	Outstanding R99 issues. TSG#7:2.0.0(SP-000013), 3.0.0 TSG#8: multipart split from parent 3.0.1
TS	32.111-1	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	3.2.0	R99	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0
TS	32.111-2	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	3.3.0	R99	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0
TS	32.111-3	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	3.5.0	R99	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TS	32.111-4	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	3.1.1	R99	S5	JURE, Patrick	TSG#8: multipart split from parent 3.0.1 TSG#8:3.1.0
TS	33.102	Security Architecture	3.9.0	R99	S3	VINCK, Bart	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:3.6.0 TSG#10:3.7.0 TSG#11:3.8.0
TS	33.103	Security Integration Guidelines	3.6.0	R99	S3	BLANCHARD, Colin	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:3.4.0 TSG#11:3.5.0
TS	33.105	Cryptographic Algorithm requirements	3.8.0	R99	S3	CHIKAZAWA, Takeshi	TSG#7: 3.3.0 TSG#8:3.4.0 TSG#9:3.5.0 TSG#10:3.6.0 TSG#11:3.7.0
TS	33.106	Lawful interception requirements	3.1.0	R99	S3	WILHELM, Berthold	.
TS	33.107	Lawful interception architecture and functions	3.2.0	R99	S3	WILHELM, Berthold	New at TSG#6 approved TSG#10:3.1.0 TSG#11:3.2.0
TS	33.120	Security Objectives and Principles	3.0.0	R99	S3	WRIGHT, Tim	.
TR	33.900	Guide to 3G security	1.2.0	R99	S3	BROOKSON, Charles	New at TSG#6
TR	33.901	Criteria for cryptographic Algorithm design process	3.0.0	R99	S3	BLOM, Rolf	.
TR	33.902	Formal Analysis of the 3G Authentication Protocol	3.1.0	R99	S3	HORN, Guenther	.

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TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	3.0.0	R99	S3	WALKER, Michael	TSG#7 SP-000039
TR	33.909	3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions	3.0.0	R99	S3	WALKER, Michael	TSG#7: refered to in 33.908. Had been withdrawn, but reinstated at TSG#10. TSG#10:1.0.0=SP-000629 TSG#10:3.0.0
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	3.4.0	R99	T1	CHALABI, Nouhman	TSG#7:(TP-000032) 1.0.0, 1.0.1 TSG#8:aprvl is controversial TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	34.109	Logical Test Interface (TDD and FDD)	3.4.0	R99	R2	BERGGREN, Anders	Feb00: 1.1.0 TSG#7: 1.2.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	3.5.0	R99	T1	HIGUCHI, Kenji	TSG#7: 2.0.0(TP-000033), 3.0.0 TSG#8:3.1.0 TSG#9:3.2.0 TSG#10:3.3.0 TSG#11:3.4.0
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	3.4.0	R99	T1	MAUCKSCH, Thomas	TSG#7: 1.2.0 TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	34.123-1	UE conformance specification; Part 1: Conformance specification	3.4.0	R99	T1	SALMERON, Lidia	TSG#8:3.0.0 (2.0.0) TSG#9:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TS	34.123-2	UE conformance specification; Part 2: Implementation conformance statement (ICS)	3.4.0	R99	T1	HU, Shicheng	TSG#7: 1.0.1 TSG#8: aprvl target postponed to end-00;TP-000137 TSG#9:2.0.0->3.1.0 (no 3.0.0 to keep in step with part 1). TSG#10:3.2.0 TSG#11:3.3.0
TS	34.123-3	UE conformance specification; Part 3: Abstract test suites (ATSs)	1.0.3	R99	T1	HU, Shicheng	TSG#9: v3 expected Mar01, stable Dec01. TSG#11:1.0.0
TS	34.124	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	3.3.0	R99	R4	SOERENSEN, Ole	TSG#7: 2.0.1(SP-000034), 3.0.0 TSG#9:3.1.0 TSG#10:3.2.0 TSG#11:3.3.0
TR	34.907	Report on electrical safety requirements and regulations	3.0.0	R99	T2	IIMORI, Eiji	.
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	3.0.0	R99	T2	JOHNSSON, Sven	.
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	3.1.1	R99	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	3.1.1	R99	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	3.1.1	R99	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	3.1.1	R99	S3	WALKER, Michael	TSG#7: 3.1.0 ex SAGE 3.1.0
TR	35.205	3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	3.0.0	R99	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4
TS	35.206	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	3.0.0	R99	S3	WALKER, Michael	TSG#10:SP-000673, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4
TS	35.207	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	3.0.0	R99	S3	WALKER, Michael	.TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4

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TS	35.208	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	3.0.0	R99	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4
TS	35.209	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	3.0.0	R99	S3	WALKER, Michael	TSG#11:This turns out to be a report so -> 35.909.
Release 4 3GPP Specifications and reports							
TS	21.102	3rd Generation mobile system Release 4 specifications	4.1.0	Rel-4	SP	MEREDITH, John M	
TS	21.111	USIM and IC card requirements	4.0.0	Rel-4	T3	KALINER, Stefan	
TS	21.133	Security Threats and Requirements	4.0.0	Rel-4	S3	CHRISTOFFERSSON, Per	
TR	21.801	3GPP drafting rules	4.1.0	Rel-4	SP	MEREDITH, John M	Formal doc created after TSG#7. (Was briefly 21.200) TSG#8:4.0.0 (1.0.1) TSG#11:4.1.0
TR	21.900	Technical Specification Group working methods	4.0.0	Rel-4	SP	MEREDITH, John M	
TR	21.905	3G Vocabulary	4.3.0	Rel-4	S1	ZARRI, Michele	TSG#7:(SP-000072) 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TS	22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	4.2.0	Rel-4	S1	KOKKOLA, Tommi	
TS	22.002	Circuit Bearer Services Supported by a PLMN	4.2.0	Rel-4	S1	CARPENTER, Paul	
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	4.2.0	Rel-4	S1	KOKKOLA, Tommi	
TS	22.004	General on Supplementary Services	4.0.0	Rel-4	S1	CARPENTER, Paul	
TS	22.011	Service accessibility	4.4.0	Rel-4	S1	GALLAIRE, Jean Paul	
TS	22.016	International Mobile Equipment Identities (IMEI)	4.0.0	Rel-4	S1	KOKKOLA, Tommi	TSG#8: CR proposed creation, but not aprvd.
TS	22.022	Personalisation of GSM ME Mobile functionality specification; Stage 1	4.0.0	Rel-4	S3	NGUYEN NGOC, Sebastien	
TS	22.024	Description of Charge Advice Information (CAI)	4.0.0	Rel-4	S1	DWYER, Paul	
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	4.0.0	Rel-4	S1	TOIVANEN, Annukka	
TS	22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	4.0.0	Rel-4	S1	KOKKOLA, Tommi	
TS	22.038	SIM application toolkit (SAT); Stage 1	4.1.0	Rel-4	S1	CARPENTER, Paul	
TS	22.041	Operator Determined Call Barring	4.1.0	Rel-4	S1	WOLAK, Stephen	
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	4.0.0	Rel-4	S1	DAHLKVIST, Mikael	
TS	22.043	Support of Localised Service Area (SoLSA); Stage 1	none	Rel-4	S1	KOKKOLA, Tommi	TSG#11: Becomes 42.043 for Rel-4 (!).
TS	22.048	Security mechanisms for the SIM Application Toolkit; Stage 1	4.0.0	Rel-4	T3	BARNES, Nigel	.
TS	22.053	Tandem Free Operation (TFO); Service Description - Stage 1	4.0.0	Rel-4	S4	NAVARRO, William	
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	4.0.0	Rel-4	S1	CATALDO, Mark	
TS	22.060	General Packet Radio Service (GPRS); Stage 1	4.2.0	Rel-4	S1	CARPENTER, Paul	
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	4.0.0	Rel-4	S1	SWETINA, Joerg	
TS	22.071	Location Services (LCS); Stage 1	4.3.0	Rel-4	S1	WOHLERT, Randolph	
TS	22.072	Call Deflection (CD); Stage 1	4.0.0	Rel-4	S1	RAUCH, Horst	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	22.076	Noise Suppression for the AMR Codec; Service Description - Stage 1	4.0.0	Rel-4	S4	USAI, Paolino	
TS	22.078	CAMEL; Stage 1	4.3.0	Rel-4	S1	GRECH, Michel	
TS	22.079	Support of Optimal Routing; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.081	Line Identification Supplementary Services; Stage 1	4.0.0	Rel-4	S1	AHNBERG, Tomas	
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	4.1.0	Rel-4	S1	EVEN, Anne	
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	4.0.0	Rel-4	S1	DWYER, Paul	
TS	22.087	User-to-user signalling (UUS); Stage 1	4.0.0	Rel-4	S1	BRADEN, Christian	
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	4.0.0	Rel-4	S1	KOKKOLA, Tommi	
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.094	Follow Me Stage 1	4.0.0	Rel-4	S1	BERGMANN, Ansgar	Apr2001: V3 unwithdrawn, so Rel-4 version produced.
TS	22.096	Name identification supplementary services; Stage 1	4.0.0	Rel-4	S1	CLAYTON, Michael	
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	4.0.0	Rel-4	S1	DWYER, Paul	
TS	22.101	UMTS Service principles	4.4.1	Rel-4	S1	DWYER, Paul	based on 3.9.0 TSG#8:4.0.0 TSG#9:4.1.0 TSG#10:4.2.0 TSG#11:4.3.0
TS	22.105	Services & Service capabilities	4.2.0	Rel-4	S1	EVEN, Anne	TSG#7: 3.8.0 TSG#8:3.9.0 TSG#9:4.0.0 TSG#10:4.1.0
TS	22.112	USIM toolkit interpreter; Stage 1	4.0.0	Rel-4	T3	MEYER, Michael	. TSG#10:1.0.0 TSG#11:4.0.0
TS	22.115	Service Aspects Charging and billing	4.0.0	Rel-4	S1	MONTEGROSSO, Emanuele	
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment; Stage 1	4.1.0	Rel-4	S1	OGUNBEKUN, Jumoke	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:4.0.0 TSG#11:4.1.0
TS	22.127	Service Requirement for the Open Services Access (OSA); Stage 1	4.2.0	Rel-4	S1	SWETINA, Joerg	TSG#9: 1.0.0 noted. TSG#10:SP-000551=2.0.0 TSG#10:4.0.0 TSG#11:4.1.0
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	4.3.0	Rel-4	S1	SAMPSON, Nick	TSG#8:3.3.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TS	22.135	Multicall Stage 1	4.0.0	Rel-4	S1	KOKKOLA, Tommi	
TS	22.140	Multimedia Messaging Service; Stage 1	4.1.0	Rel-4	S1	LAUMEN, Josef	based on 3.0.0 TSG#8:4.0.0 TSG#11:4.1.0
TS	22.227	Service requirements for the Open Service Access (OSA)	none	Rel-4	S1	HELLSTROM, Gunnar	.
TR	22.976	Study on PS domain services and capabilities	2.0.0	Rel-4	S1	CATALDO, Mark	TSG#7:(SP-000073) 1.0.0 TSG#8:2.0.0
TS	23.002	Network Architecture	4.3.0	Rel-4	S2	SULTAN, Alain	Open issues to be finalized by TSG#7. TSG#7: 3.3.0 TSG#9:5.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TS	23.003	Numbering, Addressing and Identification	4.1.0	Rel-4	N4	GAASVIK, Per-Ola	
TS	23.007	Restoration procedures	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	23.008	Organisation of subscriber data	4.1.0	Rel-4	N4	BAUER, Rolf	
TS	23.009	Handover procedures	4.1.0	Rel-4	N1	FARHOUMAND, Rouzbeh	
TS	23.011	Technical Realization of Supplementary Services - General Aspects	4.0.0	Rel-4	N4	CONRAD, Alan	
TS	23.012	Location management procedures	4.0.0	Rel-4	N4	VACANT,	
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	4.0.0	Rel-4	N1	ZAUS, Robert	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	4.0.0	Rel-4	N4	PARK, Ian David Chalmers	
TS	23.016	Subscriber data management; Stage 2	4.0.0	Rel-4	N4	VACANT,	
TS	23.018	Basic Call Handling - Technical realization	4.3.0	Rel-4	N4	PARK, Ian David Chalmers	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TS	23.032	Universal Geographical Area Description (GAD)	4.0.0	Rel-4	S2	HIETALAHTI, Hannu	
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	4.0.0	Rel-4	N1	TEKBULUT, Haluk	
TS	23.038	Alphabets & Language	4.2.0	Rel-4	T2	HARRIS, Ian	based on 3.3.0 TSG#8:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	4.0.0	Rel-4	T2	HARRIS, Ian	
TS	23.040	Technical realisation of Short Message Service	4.3.0	Rel-4	T2	HARRIS, Ian	based on 3.4.0 TSG#8:4.0.0 TSG#9:4.1.0 TSG#11:4.2.0
TS	23.041	Technical Realization of Cell Broadcast Service	4.1.0	Rel-4	T2	HARRIS, Ian	
TS	23.042	Compression algorithm for SMS	4.0.0	Rel-4	T2	HARRIS, Ian	
TS	23.048	Security Mechanisms for SIM Toolkit Application; Stage 2	4.0.0	Rel-4	T3	BARNES, Nigel	.
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	4.0.0	Rel-4	S4	USAI, Paolino	TSG#11:4.0.0
TS	23.057	Mobile Execution Environment (MExE)	4.2.0	Rel-4	T2	CATALDO, Mark	. TSG#10:4.0.0 TSG#11:4.1.0
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	4.1.0	Rel-4	S2	DELECKI, Andrew	
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	4.0.0	Rel-4	N4	LOPEZ SORIA, Luis	
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	4.1.0	Rel-4	N4	PERLICK, Vivien	. TSG#10:4.0.0
TS	23.072	Call Deflection Supplementary Service; Stage 2	4.0.0	Rel-4	N4	CONRAD, Alan	
TS	23.073	Support of Localised Service Area (SoLSA); Stage 2	4.0.0	Rel-4	N4	HOMANN, Christian	
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	4.1.0	Rel-4	N2	HOMANN, Christian	
TS	23.079	Support of Optimal Routeing - Phase 1; Stage 2	4.0.0	Rel-4	N4	PARK, Ian David Chalmers	.
TS	23.081	Line Identification Supplementary Services; Stage 2	4.0.0	Rel-4	N4	VACANT,	
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	4.1.0	Rel-4	N4	VACANT,	
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	4.2.0	Rel-4	N4	RUSSELL, Nick	TSG#9:4.0.0 TSG#11:4.1.0, later 4.2.0 due to missed CR.
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	23.087	User-to-User Signalling (UUS); Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	4.0.0	Rel-4	N4	CROOK, Mick	
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	23.093	Call Completion to Busy Subscriber (CCBS); Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	. TSG#11:4.0.0
TS	23.094	Follow Me Stage 2	4.0.0	Rel-4	N4	SWETINA, Joerg	
TS	23.096	Name Identification Supplementary Service; Stage 2	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	4.0.0	Rel-4	N4	HEWSON, Ruth	
TS	23.101	General UMTS Architecture	4.0.0	Rel-4	S2	OLSSON, Magnus	
TS	23.107	Quality of Service, Concept and Architecture	4.1.0	Rel-4	S2	GREIS, Marc	. TSG#10:4.0.0 TSG#11:4.1.0 was an error. No CR at TSG#11 in fact.
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	4.0.0	Rel-4	N1	SALKINTZIS, Apostolis	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	23.110	UMTS Access Stratum Services and Functions	4.0.0	Rel-4	S2	LOPEZ-TORRES, Oscar	
TS	23.116	Super-Charger technical realization; Stage 2	4.1.0	Rel-4	N4	ALLEN, Nicholas	
TS	23.119	Gateway Location Register (GLR); Stage2	4.0.0	Rel-4	N4	SAWADA, Masahiro	
TS	23.119	Gateway Location Register (GLR); Stage2	4.0.0	Rel-4	N4	SAWADA, Masahiro	
TS	23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	4.1.0	Rel-4	N1	HIETALAHTI, Hannu	
TS	23.127	Virtual Home Environment; Stage 2	4.2.0	Rel-4	S2	GOURRAUD, Christophe	TSG#7:2.0.0 (SP-000089) 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0 TSG#11:4.1.0
TS	23.135	Multicall; Stage 2	4.0.0	Rel-4	N4	MITAMURA, Kazuo	TSG#7:1.1.0->3.0.0 3.0.0 TSG#8:3.1.0 TSG#9:4.0.0
TS	23.140	Multimedia Messaging Service (MMS)	4.3.0	Rel-4	T2	LAUMEN, Josef	TSG#7: 2.0.0(TP-000028) 3.0.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TS	23.146	Technical realisation of facsimile Group 3 service - non-transparent	4.1.0	Rel-4	N3	HAGIWARA, Junichiro	New @ TSG#6, Circuit switched type of Real time Non transparent FAX specification. TSG#7:1.1.0 "but not stable enough to be made available"! N3#10: 2.0.0 TSG#8:4.0.0 (2.0.0) TSG#9:4.1.0
TS	23.153	Out of Band Transcoder Control; Stage 2	4.2.0	Rel-4	N4	VACANT,	TSG#7:2.0.0 [argument in SA over r99 or r00] concl: not approved. TSG#10:2.3.0=NP-000653 TSG#10:4.0.0 TSG#11:4.1.0
TS	23.171	Functional stage 2 description of location services in UMTS	4.0.0	Rel-4	S2	KÅLL, Jan	Kall: Apr-2001:Superseded by 23.271 for Rel-4.
TS	23.205	Bearer-independent circuit-switched core network; Stage 2	4.1.0	Rel-4	N4	GARCIA-MENDIVE, Elena	TSG#10:N4-001104 TSG#10:1.0.1 TSG#11:4.0.0
TS	23.207	End to end quality of service concept and architecture	2.0.0	Rel-4	S2	OYAMA, Johnson	TSG#10:1.0.0=SP-000594 TSG#10:1.0.0 SP-12: becomes Rel-5
TS	23.221	Architectural requirements	4.1.0	Rel-4	S2	DANIEL, Elizabeth	TSG#10:1.0.0=SP-000595 TSG#10:1.0.0 TSG#11:4.0.0
TS	23.227	Application and user interaction in the UE; Principles and specific requirements	4.0.0	Rel-4	T2	TOMÉ, Olga	. TSG#11:4.0.0
TS	23.271	Functional stage 2 description of location services	4.2.0	Rel-4	S2	KÅLL, Jan	post-TSG#8: Recombined 2G and 3G spec. TSG#9:1.0.0 TSG#10:2.0.0=SP-000596 TSG#10:4.0.0 TSG#11:4.1.0
TR	23.814	Separating RR and MM specific parts of the MS Classmark	4.0.0	Rel-4	N1	YOKOTA, Fumihiko	Jorgensen Apr-2001: Doubtful whether this should be upgraded to Rel-4. May-2001: N1#17 decided not to upgrade to Rel-4.
TR	23.821	Architecture Principles for Relase 2000	1.0.1	Rel-4	S2	LIND, Christer	TSG#8:1.0.0
TR	23.873	Feasibility study fro transport and control separation in the PS CN domain	4.0.0	Rel-4	S2	IBANEZ, Juan-Antonio	TSG#10:1.0.0=SP-000597 TSG#10:1.0.0 TSG#11:4.0.0
TR	23.874	Feasibility study of architecture for network requested PDP context activation with User-ID	1.3.0	Rel-4	S2	KITADA, Yoshinori	.
TR	23.907	Quality of Service concept	1.2.0	Rel-4	S1	VACANT,	.
TR	23.908	Technical report on Pre-Paging	4.0.0	Rel-4	N4	VACANT,	
TR	23.909	Technical report on the Gateway Location Register	4.0.0	Rel-4	N4	PARK, Ian David Chalmers	
TR	23.910	Circuit switched data bearer services	4.3.0	Rel-4	N3	BRAUN, Achim	TSG#6: 1.0.0 TSG#7:2.0.0->3.0.0 TSG#8:3.1.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
TR	23.911	Technical report on Out-of-band transcoder control	4.0.0	Rel-4	N4	BOSWARTHICK, David	
TR	23.912	Technical report on Super-Charger	4.0.0	Rel-4	N4	SHARP, Iain	
TR	23.913	UMTS Turbo-Charger	1.0.0	Rel-4	-	GARAPATY, Sonia	.

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TR	23.913	UMTS Turbo-Charger	1.0.0	Rel-4	-	GARAPATY, Sonia	.
TR	23.922	Architecture for an All IP network	4.0.0	Rel-4	S2	DANIEL, Elizabeth	Sultan, Apr-2001: abandoned in early 2000. July-2001: replaced by 23,228.
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	4.0.0	Rel-4	S2	HUBBARD, Elisabeth	Sultan Apr-2001: contents out of date, not apprpriate for Rel-4.
TR	23.925	UMTS Core network based ATM transport	none	Rel-4	S2	ROUZ, Adel	
TR	23.930	Iu Principles	4.0.0	Rel-4	S2	AXERUD, Bo	
TR	23.972	Circuit Switched Multimedia Telephony	4.0.0	Rel-4	N1	KAUHANEN, Timo	Jorgensen Apr-2001: Doubtful whether this should be upgraded to Rel-4. May-2001: N1#17 decided not to upgrade to Rel-4.
TS	24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	4.0.0	Rel-4	N1	ANDERSEN, Niels Peter Skov	
TS	24.004	Layer 1 - General Requirements	4.0.0	Rel-4	G2	THOMAS, Rémi	Apr-2001: Not required. See 44.004.
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	4.0.0	Rel-4	N1	HOWELL, Andrew	
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	4.3.0	Rel-4	N1	HOWELL, Andrew	
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	4.0.0	Rel-4	N4	ANDERSEN, Niels Peter Skov	
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	4.0.0	Rel-4	N1	ANDERSEN, Niels Peter Skov	
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	none	Rel-4	G2	AL -BAKRI, Ban	TSG#11: Replaced by 44.012 for Rel-4.
TS	24.022	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	4.0.0	Rel-4	N3	KLEHN, Norbert	
TS	24.030	Location Services LCS Stage 3 SS (MO-LR)	4.1.0	Rel-4	N4	GARAPATY, Sonia	
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	4.1.0	Rel-4	N4	PERLICK, Vivien	
TS	24.072	Call Deflection Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	4.1.0	Rel-4	N4	DETTNER, Harald	
TS	24.081	Line Identification Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.082	Call Forwarding Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.087	User-to-User Signalling (UUS); Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	4.0.0	Rel-4	N4	BRUSS, Jörg	
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	4.0.0	Rel-4	N4	RUSSELL, Nick	
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.096	Name Identification Supplementary Service; Stage 3	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	24.10U	UMTS Interworking and internetworking signalling aspects; Requirements for provision of UMTS services via satellite access	none	Rel-4		,	.

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TS	24.135	Multicall supplementary service; Stage 3	4.0.0	Rel-4	N4	MITAMURA, Kazuo	
TR	24.946	reserved	none	Rel-4		VACANT,	. TSG#11:4.0.0
TS	25.101	UE Radio transmission and reception (FDD)	4.1.0	Rel-4	R4	FERNANDES, Edgar	
TS	25.102	UE Radio transmission and reception (TDD)	4.1.0	Rel-4	R4	KOTTKAMP, Meik	
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	4.1.0	Rel-4	R4	SKÖLD, Johan	
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	4.1.0	Rel-4	R4	KOTTKAMP, Meik	TSG#11:4.0.0
TS	25.106	UTRA Repeater; Radio transmission and reception	4.0.0	Rel-4	R4	NILSSON, Martin	TSG#9:1.0.0 TSG#10:RP-000596 TSG#10:1.1.0 TSG#11:4.0.0
TS	25.107	UTRA Repeater; Conformance testing	0.0.1	Rel-4	-	NILSSON, Martin	Scrapped in favour of 25.143
TS	25.113	Base station EMC	4.1.0	Rel-4	R4	BARNES, David	
TS	25.123	Requirements for support of radio resource management (TDD)	4.1.0	Rel-4	R4	RONCHINI, M. Cristina	
TS	25.133	Requirements for support of radio resource management (FDD)	4.1.0	Rel-4	R4	RONCHINI, M. Cristina	
TS	25.141	Base station conformance testing (FDD)	4.1.0	Rel-4	R4	NAKAMURA, Takaharu	
TS	25.142	Base station conformance testing (TDD)	4.1.0	Rel-4	R4	MEYER, Juergen	
TS	25.143	UTRA Repeater; Conformance testing	4.1.0	Rel-4	R4	KUMMETZ, Thomas	Was to have been 25.107. But never was. TSG#9:0.0.2 TSG#10:RP-000671 TSG#10:1.0.0 TSG#11:4.0.0
TS	25.201	Physical layer -General Description	4.0.0	Rel-4	R1	TOSKALA, Antti	
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	4.1.0	Rel-4	R1	WILDE, Andreas	
TS	25.212	Multiplexing and channel coding (FDD)	4.1.0	Rel-4	R1	TANAKA, Yoshinori	
TS	25.213	Spreading and modulation (FDD)	4.1.0	Rel-4	R1	CHAMBERS, Peter	
TS	25.214	Physical layer procedures (FDD)	4.1.0	Rel-4	R1	IKEDA, Shinobu	
TS	25.215	Physical layer; Measurements (FDD)	4.1.0	Rel-4	R1	IKEDA, Shinobu	
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	4.1.0	Rel-4	R1	HIRAMATSU, Katsuhiko	
TS	25.222	Multiplexing and channel coding (TDD)	4.0.0	Rel-4	R1	KAHTAVA, Jussi	
TS	25.223	Spreading and modulation (TDD)	4.1.0	Rel-4	R1		
TS	25.224	Physical layer procedures (TDD)	4.1.0	Rel-4	R1	OESTREICH, Stefan	
TS	25.225	Physical layer; Measurements (TDD)	4.1.0	Rel-4	R1	IKEDA, Shinobu	
TS	25.301	Radio Interface Protocol Architecture	4.1.0	Rel-4	R2	GRANZOW, Wolfgang	
TS	25.302	Services provided by the physical layer	4.1.0	Rel-4	R2	MIHAILESCU, Claudiu	
TS	25.303	UE functions and inter-layer procedures in connected mode	4.1.0	Rel-4	R2	RINNE, Mikko J	
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	4.1.0	Rel-4	R2	MAHKONEN, Marko	
TS	25.305	Stage 2 functional specification of UE positioning in UTRAN	4.1.0	Rel-4	R2	MIHAILESCU, Claudiu	
TS	25.306	UE Radio Access capabilities definition	4.1.0	Rel-4	R2	BERGGREN, Anders	
TS	25.307	Requirements on UE supporting a release-independent frequency band	none	Rel-4	R2	FAUCONNIER, Denis	Expect continual updates each time a new band is allowed.
TS	25.321	Medium Access Control (MAC) Protocol Specification	4.1.0	Rel-4	R2	GESSNER, Christina	
TS	25.322	Radio Link Control (RLC) Protocol Specification	4.1.0	Rel-4	R2	MADELAINE, Sebastien	
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	4.1.0	Rel-4	R2	HANS, Martin	
TS	25.324	Broadcast/Multicast Control (BMC)	4.0.0	Rel-4	R2	KRISCHAN, Peter	
TS	25.331	Radio Resource Control (RRC) Protocol Specification	4.1.0	Rel-4	R2	KUCHIBHOTLA, Ravi	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	25.371	LMU signalling	none	Rel-4	-	MOULY, Michel	First draft: Jan2000
TS	25.401	UTRAN Overall Description	4.1.0	Rel-4	R3	CALMEL, Jean-Marie	
TS	25.402	Synchronisation in UTRAN Stage 2	4.1.0	Rel-4	R3	PIOLINI, Flavio	
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	4.1.0	Rel-4	R3	TOWNEND, Richard	
TS	25.411	UTRAN Iu interface Layer 1	4.1.0	Rel-4	R3	BRANDT, Achim V.	
TS	25.412	UTRAN Iu interface signalling transport	4.0.0	Rel-4	R3	THAKARE, Kiran	
TS	25.413	UTRAN Iu interface RANAP signalling	4.1.0	Rel-4	R3	JUSSILA, Jyrki	
TS	25.414	UTRAN Iu interface data transport & transport signalling	4.0.0	Rel-4	R3	COMSTOCK, David	
TS	25.415	UTRAN Iu interface user plane protocols	4.1.0	Rel-4	R3	MAUPIN, Alain	
TS	25.419	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	4.1.0	Rel-4	R3	TAYLOR, Carolyn	
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	4.0.0	Rel-4	R3	THAKARE, Kiran	
TS	25.421	UTRAN Iur interface Layer 1	4.0.0	Rel-4	R3	BRANDT, Achim V.	
TS	25.422	UTRAN Iur interface signalling transport	4.0.0	Rel-4	R3	THAKARE, Kiran	
TS	25.423	UTRAN Iur interface RNSAP signalling	4.1.0	Rel-4	R3	RUNE, Göran	
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	4.0.0	Rel-4	R3	DREVON, Nicolas	
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	4.0.0	Rel-4	R3	DREVON, Nicolas	
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	4.0.0	Rel-4	R3	KEKKI, Sami	
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	4.1.0	Rel-4	R3	LONGONI, Fabio	
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	4.1.0	Rel-4	R3	WILSON, Mick	
TS	25.431	UTRAN Iub interface Layer 1	4.0.0	Rel-4	R3	BRANDT, Achim V.	
TS	25.432	UTRAN Iub interface signalling transport	4.0.0	Rel-4	R3	WILSON, Mick	
TS	25.433	UTRAN Iub interface NBAP signalling	4.1.0	Rel-4	R3	ISHIKAWA, Nobutaka	
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	4.1.0	Rel-4	R3	ALDEN, Magnus	
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	4.1.0	Rel-4	R3	CALMEL, Jean-Marie	
TS	25.442	UTRAN Implementation Specific O&M Transport	4.0.0	Rel-4	R3	RECKER, Stephan	
TR	25.832	Manifestations of Handover and SRNS relocation	4.0.0	Rel-4	R3	TOWNEND, Richard	
TR	25.834	UTRA TDD low chip rate option; Radio protocol aspects	4.1.0	Rel-4	R2	LIU, YanHui	TSG#10:RP-000556=2.0.0 TSG#10:4.0.0 TSG#11:4.1.0
TR	25.835	Report on hybrid ARQ type II/III	4.0.0	Rel-4	R2	SITTE, Armin	.
TR	25.836	Node B synchronization for TDD	4.1.0	Rel-4	R1	OESTREICH, Stefan	TSG#10:RP-000547=2.0.0. TSG#10:4.0.0 TSG#11:4.1.0
TR	25.837	Hybrid ARQ Type II/III (Iub/Iur aspects)	0.1.0	Rel-4	R3	BRANDT, Achim V.	.
TR	25.838	Node B Synchronisation for TDD (Iub/Iur aspects)	4.0.0	Rel-4	R3	LENHART, Johannes	TSG#10:RP-000640 TSG#10:0.1.1 TSG#11:4.0.0
TR	25.839	Uplink Synchronous Transmission Scheme (USTS) (Iur/Iub aspects)	0.2.0	Rel-4	R3	PARK, Jin Hyo	TSG#10:RP-000642=0.1.0
TR	25.840	Terminal power saving features	2.3.0	Rel-4	R1	LEE, Ju Ho	TSG#10:RP-000548 not approved. TSG#10:2.0.0 TSG#11:2.3.0
TR	25.841	DSCH power control improvement in soft handover	4.1.0	Rel-4	R1	TOSKALA, Antti	TSG#10:RP-000549=2.0.0 TSG#10:4.0.0 TSG#11:4.1.0
TR	25.842	Smart antenna	1.0.0	Rel-4	R1	HU, Jinling	.
TR	25.843	1,28 Mcps TDD UE Radio Access Capabilities	4.1.0	Rel-4	R2	ZHU, Yifei	TSG#10:RP-000558=2.0.0 TSG#10:4.0.0 TSG#11:4.1.0
TR	25.844	Radio acces bearer support enhancements	4.0.0	Rel-4	R2	KRISHNARAJAH, Ainkaran	TSG#10:RP-000560 TSG#10:1.0.0 TSG#11:4.0.0

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TR	25.845	FDD RACH and AICH performance requirements	0.0.3	Rel-4	R4	VIHRIÄLÄ, Jaakko	.
TR	25.846	CPCH performance	none	Rel-4	R4	KWAK, Joe	.
TR	25.847	UE positioning enhancements	4.0.0	Rel-4	R2	BECKMANN, Mark	TSG#10:RP-000581 TSG#10:1.0.0 TSG#11:4.0.0
TR	25.848	Physical Layer Aspects of UTRA High Speed Downlink Packet Access	4.0.0	Rel-4	R1	IKEDA, Shinobu	May not be Rel4 but Rel5. To be confirmed at RAN#10. TSG#11:4.0.0
TR	25.849	DSCH power control improvement in soft handover	4.0.0	Rel-4	R3	WOONHEE, Hwang	. TSG#11:4.0.0
TR	25.850	UE positioning in UTRAN Iub/Iur protocol aspects	4.1.0	Rel-4	R3	HAUTALA, Jari	
TR	25.851	RAB Quality of Service Renegotiation over Iu	4.0.0	Rel-4	R3	IRWIN, Sania	TSG#10:RP-000660 TSG#10:0.0.2 TSG#11:4.0.0
TR	25.852	Radio access bearer support enhancements for the Iu	0.0.0	Rel-4	R3	DIESEN, Michael	.
TR	25.853	Delay budget within the access stratum	4.0.0	Rel-4	R3	DELL'ACQUA, Massimo	
TR	25.921	Guidelines and principles for protocol description and error handling	4.1.0	Rel-4	R2	GILLY, Sylviane	
TR	25.922	Radio Resource Management Strategies	4.0.0	Rel-4	R2	MAGNANI, Nicola Pio	
TR	25.924	Opportunity Driven Multiple Access (ODMA)	1.0.0	Rel-4	R2	LAW, Alan	.
TR	25.928	1,28 Mcps functionality for UTRA TDD physical layer	4.0.1	Rel-4	R1	AKSENTIJEVIC, Mirko	anticipated TSG#8; TSG#7:0.0.2 (RP-000091) 0.0.3 (RP-000158) 0.0.3 TSG#8:1.0.0 (0.2.0) TSG#9:1.1.0 TSG#11:4.0.0
TR	25.931	UTRAN Functions, examples on signalling procedures	4.1.0	Rel-4	R3	SCARRONE, Enrico	
TR	25.932	Delay budget within the access stratum	2.0.0	Rel-4	R3	TAYLOR, Carolyn	TSG#8:1.0.0 TSG#9:1.1.0 TSG#10:2.0.0; approved renumbered as 25.853. TSG#10:2.0.0; replaced by 25.853.
TR	25.933	IP Transport in UTRAN	1.1.0	Rel-4	R3	DREVON, Nicolas	TSG#9:0.2.0 TSG#10:RP-000644 TSG#10:0.4.0 TSG#11:1.0.0
TR	25.934	AAL2 QoS optimization	4.0.0	Rel-4	R3	YOSHIMURA, Takayuki	TSG#9:0.2.0 TSG#10:RP-000646 TSG#10:0.2.1 TSG#11:4.0.0
TR	25.935	RRM optimisation	4.0.0	Rel-4	R3	VAN LIESHOUT, Gert-Jan	TSG#10:RP-000648 TSG#10:0.1.1 TSG#11:4.0.0
TR	25.936	Handover for realtime services from PS-domain	4.0.0	Rel-4	R3	MOUSSET, Claire	TSG#10:RP-000650 TSG#10:0.3.0 TSG#11:4.0.0 (expect a 4.0.1 with formatting corrections)
TR	25.937	UTRAN TDD low chiprate	4.0.0	Rel-4	R3	XU, Bing	TSG£9:0.1.1 TSG#9:0.1.1 TSG#10:RP-000686 TSG#10:0.3.2 TSG#11:4.0.0
TR	25.938	Terminal power saving features	2.0.0	Rel-4	R3	CHOI, Sungho	TSG#10:RP-000654 TSG#10:0.1.1 TSG#11:2.0.0
TR	25.942	RF system scenarios	4.0.0	Rel-4	R4	BENABDALLAH, Nadia	
TR	25.943	Deployment aspects	4.0.0	Rel-4	R4	SKÖLD, Johan	TSG#7:2.0.0
TR	25.944	Channel coding and multiplexing examples	4.1.0	Rel-4	R1	IKEDA, Shinobu	
TR	25.945	RF requirements for low chip rate TDD option	4.0.0	Rel-4	R4	ZHANG, Daijun	TSG#9:0.3.0 TSG#10:RP-000678 not approved. TSG#10:2.0.0 TSG#11:4.0.0
TR	25.946	RAB Quality of Service Negotiation over Iu	4.0.0	Rel-4	R3	MOLANDER, Anders	TSG#10:RP-000656 TSG#10:0.1.1 TSG#11:4.0.0
TR	25.950	UTRA high speed downlink packet access	4.0.0	Rel-4	R2	KUCHIBHOTLA, Ravi	. TSG#11:4.0.0
TR	25.951	Base Station classification (FDD)	1.0.0	Rel-4	R4	LAGERSTAM, Timo	TSG#10:RP-000598 TSG#10:1.0.0
TR	25.952	Base Station classification (TDD)	1.1.0	Rel-4	R4	AXNESS, Timothy	-> Rel-5
TR	25.953	TrFO/TFO	4.0.0	Rel-4	R3	VESELY, Alexander	TSG#10:RP-000664 TSG#10:0.0.3 TSG#11:4.0.0
TR	25.954	Migration to modification procedure	4.0.0	Rel-4	R3	YOSHIMURA, Takayuki	. TSG#11:4.0.0
TR	25.956	UTRA repeater: Planning guidelines and system analysis	4.0.0	Rel-4	R4	GARCIA LOPEZ, Lorena	. TSG#11:4.0.0

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TS	26.071	AMR speech Codec; General description	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TS	26.073	AMR speech Codec; C-source code	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TS	26.074	AMR speech Codec; Test sequences	4.1.1	Rel-4	S4	EKUDDEN, Erik	
TS	26.077	Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder	4.0.0	Rel-4	S4	USAI, Paolino	
TR	26.078	Results of the AMR noise suppression selection phase	4.0.0	Rel-4	S4	USAI, Paolino	Replaced by 26.978.
TS	26.090	AMR speech Codec; Transcoding Functions	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TS	26.091	AMR speech Codec; Error concealment of lost frames	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TS	26.093	AMR speech Codec; Source Controlled Rate operation	4.0.0	Rel-4	S4	EKUDDEN, Erik	. TSG#10:4.0.0
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	4.0.0	Rel-4	S4	USAI, Paolino	
TS	26.101	AMR speech Codec; Frame Structure	4.1.0	Rel-4	S4	HAGQVIST, Jari	
TS	26.102	AMR speech Codec; Interface to Iu and Uu	4.0.0	Rel-4	S4	NAVARRO, William	
TS	26.103	Codec lists	4.1.0	Rel-4	S4	HELLWIG, Karl	. TSG#10:4.0.0 TSG#11:4.1.0
TS	26.104	AMR speech Codec; Floating point C-Code	4.1.1	Rel-4	S4	USAI, Paolino	. TSG#10:4.0.0
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	4.1.0	Rel-4	S4	ARONSON, Barry	. TSG#9:4.0.0 TSG#11:4.1.0
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	4.0.0	Rel-4	S4	ARONSON, Barry	
TS	26.115	Transmission Delay and Echo Control Planning For Speech and Multi-Media Services	4.0.0	Rel-4	S4	USAI, Paolino	
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	4.0.0	Rel-4	S4	GOETZ, Ian	TSG#11:4.0.0
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	4.0.0	Rel-4	S4	GOETZ, Ian	
TS	26.226	Global text telephony;Transport of text in the voice channel	4.0.0	Rel-4	S4	HELLSTROM, Gunnar	WI approved TSG#7 TSG#9:0.0.9 TSG#10:2.0.0=SP-000569(Rel-5)->Rel-4 TSG#10:4.0.0 TSG#11:withdrawn->rel-5
TS	26.230	Global text telephony; Cellular text telephone modem transmitter C-code description description	4.0.0	Rel-4	S4	HELLSTROM, Gunnar	TSG#10:2.0.0=SP-000570(Rel-5)->Rel-4 TSG#10:4.0.0; TSG#11:withdrawn, to be Rel-5 only.
TS	26.233	End-to-end transparent streaming service; General description	4.0.0	Rel-4	S4	HONKO, Harri	TSG#10:1.0.0=NP-000565 TSG#10:1.0.0 TSG#11:4.0.0
TS	26.234	End-to-end transparent streaming service; Protocols and codecs	4.0.0	Rel-4	S4	NOHLGREN, Anders	TSG#10:1.0.0=NP-000566 TSG#10:1.0.0 TSG#11:4.0.0
TS	26.235	Packet switched conversational multimedia applications; Default codecs	4.1.0	Rel-4	S4	OJALA, Pasi	SP-12: withdrawn from Rel-4, moved to Rel-5.
TR	26.901	AMR wideband speech codec; Feasibility study report	4.0.1	Rel-4	S4	OHANA, Alain	TSG#7:2.0.0 (SP-000024), 4.0.0
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	4.1.0	Rel-4	S4	HAAVISTO, Petri	. TSG#11:4.1.0
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	4.0.0	Rel-4	S4	FRANCESCHI, Olle	

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TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	none	Rel-4	S4	HONKO, Harri	No work, will never appear as 4.0.0 (Usai, Mar 2001)
TR	26.920	Architectural Model for the 3G Transcoders	0.1.1	Rel-4	S4	NAVARRO, William	.
TR	26.975	Performance characterization of the AMR speech codec	4.0.0	Rel-4	S4	EKUDDEN, Erik	
TR	26.978	Results of the AMR noise suppression selection phase	4.0.0	Rel-4	S4	USAI, Paolino	Replaces 26.078
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	4.4.0	Rel-4	N3	WIIK, Rune Werner	
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	4.0.0	Rel-4	N3	WIIK, Rune Werner	.
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	4.1.0	Rel-4	N3	WIIK, Rune Werner	. TSG#10:4.0.0 TSG#11:4.1.0
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)	4.0.0	Rel-4	T2	HARRIS, Ian	
TS	27.007	AT command set for 3G User Equipment (UE)	4.2.0	Rel-4	T2	NOVAK, Lars	TSG#8:3.5.0 TSG#9:4.0.0 TSG#11:4.1.0
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	4.0.0	Rel-4	T2	NOVAK, Lars	
TS	27.060	GPRS Mobile Stations supporting GPRS	4.0.0	Rel-4	N3	HEATON, Graham	
TS	27.103	Wide Area Network Synchronization	4.0.0	Rel-4	T2	LOCKHART, Rob	
TR	27.901	Report on Terminal Interfaces - An Overview	4.0.0	Rel-4	T2	REX, Thomas	
TR	27.903	Discussion of synchronization standards	4.0.0	Rel-4	T2	LOCKHART, Rob	
TS	28.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	none	Rel-4	N3	BOSWARTHICK, David	.
TS	28.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	4.1.0	Rel-4	S4	SUERBAUM, Clemens	TSG#10:1.0.0=NP-000568 TSG#10:1.0.0 TSG#11:4.0.0 Usai: may need 48.062.
TS	29.002	Mobile Application Part (MAP)	4.4.0	Rel-4	N4	DETTNER, Harald	
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	4.2.0	Rel-4	N3	KLEHN, Norbert	TSG#7: 3.4.0 TSG#8:3.5.0 TSG#9:4.0.0 TSG#10:4.1.0 TSG#11:4.2.0
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)	4.1.0	Rel-4	N4	VACANT,	
TS	29.011	Signalling Interworking for Supplementary Services	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	4.0.0	Rel-4	N4	DETTNER, Harald	
TS	29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	4.0.0	Rel-4	N1	MILLS, Duncan	
TS	29.018	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	4.0.0	Rel-4	N1	MILLS, Duncan	
TS	29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	4.1.0	Rel-4	N4	YOUNG, Michael	
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	4.1.0	Rel-4	N3	WILD, Johanna	
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	4.1.0	Rel-4	N2	NOLDUS, Rogier	

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TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	4.0.0	Rel-4	R3	VESELY, Alexander	
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	4.0.0	Rel-4	N4	AIKAWA, Shinichiro	
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	4.0.0	Rel-4	N4	MITAMURA, Kazuo	TSG#9:4.0.0
TS	29.198-01	Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview	4.1.0	Rel-4	N5	KLOSTERMANN, Lucas	
TS	29.198-02	Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data	4.1.0	Rel-4	N5	MOERDIJK, Ard-Jan	
TS	29.198-03	Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework	4.1.0	Rel-4	N5	ABARCA, Chelo	
TS	29.198-04	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control	4.0.0	Rel-4	N5	MOERDIJK, Ard-Jan	
TS	29.198-05	Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction	4.1.0	Rel-4	N5	DE GELDER, Dirk	
TS	29.198-06	Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility	4.1.1	Rel-4	N5	MARKWARDT, Gert	
TS	29.198-07	Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities	4.1.0	Rel-4	N5	SAARENPAA, Matti	
TS	29.198-08	Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control	4.1.0	Rel-4	N5	UNMEHOPA, Musa	
TS	29.198-11	Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management	4.0.0	Rel-4	N5	LAGENDIJK, Louis	
TS	29.198-12	Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging	4.0.0	Rel-4	N5	UNMEHOPA, Musa	
TS	29.202	SS7 signalling transport in Core Network; stage 3	4.0.1	Rel-4	N4	ANGELO, Ciriaco	. TSG#11:4.0.0
TS	29.205	Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3	4.1.0	Rel-4	N4	HEIDERMARK, Alf	. TSG#11:4.0.0
TS	29.232	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	4.1.0	Rel-4	N4	PARK, Ian David Chalmers	
TS	29.414	Core network Nb nata transport and transport signalling	4.1.0	Rel-4	N3	BELLING, Thomas	. TSG#11:4.0.0
TS	29.415	Core network Nb interface user plane protocols	4.0.0	Rel-4	N3	SANDERS, David	. TSG#11:4.0.0
TR	29.998-01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	4.0.0	Rel-4	N5	UNMEHOPA, Musa	
TR	29.998-04-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping	4.1.0	Rel-4	N5	UNMEHOPA, Musa	
TR	29.998-05-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping	4.0.0	Rel-4	N5	UNMEHOPA, Musa	
TR	29.998-05-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping	4.0.0	Rel-4	N5	UNMEHOPA, Musa	

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TR	29.998-06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location – User Status Service Mapping to MAP	4.0.0	Rel-4	N5	UNMEHOPA, Musa	
TR	29.998-08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	4.0.0	Rel-4	N5	UNMEHOPA, Musa	
TR	30.002	Guidelines for the modification of the Mobile Application Part (MAP)	4.0.1	Rel-4	N4	KYMALAINEN, Kimmo	.
TR	30.504	Work Plan and Study Items - RAN WG4	2.2.0	Rel-4	R4	IWASA, Masaaki	.
TR	30.801	Overall Project Plan	1.1.0	Rel-4	S2	SULTAN, Alain	TSG#11: Work stopped.
TR	30.802	Project plan on Bearer Services and QoS	4.0.0	Rel-4	S2	LOPEZ-TORRES, Oscar	2001-02-02: In Nov-00, mistakenly put up 30.002 v4.0.0 under this number; now removed. TSG#11: Work stopped.
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	1.0.0	Rel-4	S2	COURAU, François	TSG#11: Work stopped.
TR	30.806	Project plan on Location based services	1.0.0	Rel-4	S2	KÅLL, Jan	TSG#11: Work stopped.
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	1.0.0	Rel-4	S2	DROPMANN, Ulrich	TSG#11: Work stopped.
TR	30.810	Project plan on Security	1.0.0	Rel-4	S2	PUDNEY, Chris	TSG#11: Work stopped.
TR	30.812	Project plan on Services and Service platforms	1.0.0	Rel-4	S2	SCHMERSEL, Rob	TSG#11: Work stopped.
TS	31.101	UICC-terminal interface; Physical and logical characteristics	4.0.0	Rel-4	T3	VESTERGAARD, Peter	
TS	31.102	Characteristics of the USIM Application	4.1.0	Rel-4	T3	HEIM, Christian	
TS	31.110	Numbering system for telecommunication IC card applications	4.0.0	Rel-4	T3	DIETRICH, Christian	
TS	31.111	USIM Application Toolkit (USAT)	4.3.0	Rel-4	T3	WOODSEND, Kristian	
TS	31.112	USAT Interpreter Architecture Description; Stage 2	1.0.0	Rel-4	TP	,	
TS	31.113	USAT interpreter byte codes	1.0.0	Rel-4	TP	,	
TS	31.120	UICC-terminal interface; Physical, electrical and logical test specification	none	Rel-4	T3	MAESER, Torsten	Created belatedly when R99 version was reinstated after TP-12. Anticipate document at TP-13.
TS	31.121	UICC-terminal interface; USIM application test specification	4.0.0	Rel-4	T3	AFCHAR, Ramin	
TS	31.122	USIM conformance test specification	none	Rel-4	T3	KNIGHT, Simon	
TS	32.101	3G Telecom Management principles and high level requirements	4.1.0	Rel-4	S5	TRUSS, Michael	
TS	32.102	3G Telecom Management Architecture	4.1.0	Rel-4	S5	BERGGREN, Tommy	
TS	32.104	3G Performance Management	4.0.0	Rel-4	S5	NENNER, Karl-Heinz	SP-12: Split into several specs. 32.401, '402, '403.
TS	32.105	3G charging and billing; Stage 2 description	0.0.4	Rel-4	S5	KOBYLARZ, Thaddeus	New at SP-06. SP-10:R99 version scrapped, will be Rel-4. SP-12: Rel-4 withdrawn.
TS	32.106-1	Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements	4.0.0	Rel-4	S5	PIRT, Trevor	SP-12: withdrawn. See 32.300.
TS	32.106-2	Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	none	Rel-4	S5	TSE, Edwin	SP-12: withdrawn.
TS	32.106-3	Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	none	Rel-4	S5	SCHEER, Randal	SP-12: withdrawn.

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TS	32.106-4	Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	none	Rel-4	S5	ZHOU, Di	SP-12: withdrawn.
TS	32.106-5	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	none	Rel-4	S5	TOVINGER, Thomas	SP-12: withdrawn.
TS	32.106-6	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	none	Rel-4	S5	ZHOU, Di	SP-12: withdrawn.
TS	32.106-7	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1	none	Rel-4	S5	TOVINGER, Thomas	SP-12: withdrawn.
TS	32.106-8	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	4.0.0	Rel-4	S5	TOVINGER, Thomas	SP-12: withdrawn. See 32.600.
TS	32.111	3G Fault Management	4.0.0	Rel-4	S5	CICCHITTO, Gaetano	.
TS	32.111-1	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	4.0.0	Rel-4	S5	JURE, Patrick	
TS	32.111-2	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	4.0.0	Rel-4	S5	JURE, Patrick	
TS	32.111-3	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	4.0.0	Rel-4	S5	JURE, Patrick	
TS	32.111-4	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	none	Rel-4	S5	JURE, Patrick	
TS	32.112-1	Telecommunication management; Generic IRP management; Part 1: Requirements	2.0.0	Rel-4	S5	,	.
TS	32.112-2	Telecommunication management; Generic IRP management; Part 2: Information service	2.0.0	Rel-4	S2	,	.
TS	32.140	3G Service Management Requirements & Framework	0.1.0	Rel-4	S5	CARYER, Geoffrey	TSG#8:0.1.0 but associated WI not approved. NP-12: moved to rel-5.
TS	32.205	3G charging data description for the CS domain	1.1.1	Rel-4	S5	,	. TSG#11:1.0.0
TS	32.215	Telecom management; Charging management; Charging data description for the packet switched (PS) domain	1.0.1	Rel-4	S5	,	.
TS	32.235	Telecommunication management; Charging management; Charging data description for application services	1.0.1	Rel-4	S5	,	.
TS	32.300	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.301	Telecommunication Management; Configuration Management; Notification IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.301-1	Telecommunication Management; Configuration Management; Notification IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.301-2	Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1	2.0.0	Rel-4	S5	TSE, Edwin	.
TS	32.301-3	Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	2.0.0	Rel-4	S5	SCHEER, Randal	.

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TS	32.301-4	Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.302	Telecommunication Management; Configuration Management; Notification Integration Reference Point; Information Service version 1	4.0.0	Rel-4	S5	TSE, Edwin	.
TS	32.303	Telecommunication Management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1	4.0.0	Rel-4	S5	SCHEER, Randal	.
TS	32.304	Telecommunication Management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.311	Telecommunication management; Generic IRP management; Requirements	4.0.1	Rel-4	S5	,	.
TS	32.312	Telecommunication management; Generic IRP management; Information service	4.0.0	Rel-4	S5	,	.
TS	32.401	Telecommunication management; Performance Management (PM); Concept and requirements	1.0.1	Rel-4	S5	NENNER, Karl-Heinz	.
TS	32.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	1.0.0	Rel-4	S5	NENNER, Karl-Heinz	.
TS	32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	4.0.0	Rel-4	S5	NENNER, Karl-Heinz	.
TS	32.600	Telecommunication Management; Configuration Management; 3G configuration management; Concept and main requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.601	Telecommunication Management; Configuration Management; Basic CM IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.601-1	Telecommunication Management; Configuration Management; Part 1: Basic CM IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.601-2	Telecommunication Management; Configuration Management; Part 2: Basic configuration management IRP information model	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.601-3	Telecommunication Management; Configuration Management; Part 3: Basic configuration management IRP: CORBA solution set	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.601-4	Telecommunication Management; Configuration Management; Part 4: Basic configuration management IRP CMIP solution set	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.602	Telecommunication Management; Configuration Management; Basic configuration management IRP information model	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.602-1	Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements	2.0.0	Rel-4	S5	,	.
TS	32.602-2	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service	2.0.0	Rel-4	S5	,	.

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TS	32.602-3	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set	2.0.0	Rel-4	S5	,	.
TS	32.602-4	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set	2.0.0	Rel-4	S5	,	.
TS	32.602-5	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition	2.0.0	Rel-4	S5	,	.
TS	32.603	Telecommunication Management; Configuration Management; Basic configuration management IRP: CORBA solution set	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.604	Telecommunication Management; Configuration Management; Basic configuration management IRP CMIP solution set	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements	4.0.0	Rel-4	S5	,	.
TS	32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service	4.0.0	Rel-4	S5	,	.
TS	32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set	4.0.0	Rel-4	S5	,	.
TS	32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set	4.0.0	Rel-4	S5	,	.
TS	32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition	4.0.0	Rel-4	S5	,	.
TS	32.620-1	Telecommunication Management; Configuration Management; Part 1: Generic network resources IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.620-2	Telecommunication Management; Configuration Management; Part 2: Generic network resources IRP: NRM	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.620-3	Telecommunication Management; Configuration Management; Part 3: Generic network resources IRP: CORBA solution set	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.620-4	Telecommunication Management; Configuration Management; Part 4: Generic network resources: IRP CMIP solution set	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.621	Telecommunication Management; Configuration Management; Generic network resources IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.621-1	Telecommunication Management; Configuration Management; Part 1: Core network resources IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.621-2	Telecommunication Management; Configuration Management; Core Network Resources IRP: NRM	2.0.0	Rel-4	S5	TOVINGER, Thomas	.

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TS	32.621-3	Telecommunication Management; Configuration Management; Part 3: Core network resources IRP: CORBA solution set	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.621-4	Telecommunication Management; Configuration Management; Part 4: Core network resources IRP: CMIP solution set	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.622	Telecommunication Management; Configuration Management; Generic network resources IRP: NRM	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.622-1	Telecommunication Management; Configuration Management; Part 1: UTRAN network resources IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.622-2	Telecommunication Management; Configuration Management; Part 2: UTRAN network resources IRP: NRM	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.622-3	Telecommunication Management; Configuration Management; Part 3: UTRAN network resources IRP: CORBA solution set	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.622-4	Telecommunication Management; Configuration Management; Part 4: UTRAN network resources IRP: CMIP solution set	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.623	Telecommunication Management; Configuration Management; Generic network resources IRP: CORBA solution set	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.623-1	Telecommunication Management; Configuration Management; Part 1: GERAN network resources IRP: requirements	2.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.623-2	Telecommunication Management; Configuration Management; Part 2: GERAN network resources IRP: NRM	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.623-3	Telecommunication Management; Configuration Management; Part 3: GERAN network resources IRP: CORBA solution set	2.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.623-4	Telecommunication Management; Configuration Management; Part 4: GERAN network resources IRP: CMIP solution set	2.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.624	Telecommunication Management; Configuration Management; Generic network resources: IRP CMIP solution set	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.631	Telecommunication Management; Configuration Management; Core network resources IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.632	Telecommunication Management; Configuration Management; Core Network Resources IRP: NRM	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.633	Telecommunication Management; Configuration Management; Core network resources IRP: CORBA solution set	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.634	Telecommunication Management; Configuration Management; Core network resources IRP: CMIP solution set	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.641	Telecommunication Management; Configuration Management; UTRAN network resources IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.

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TS	32.642	Telecommunication Management; Configuration Management; UTRAN network resources IRP: NRM	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.643	Telecommunication Management; Configuration Management; UTRAN network resources IRP: CORBA solution set	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.644	Telecommunication Management; Configuration Management; UTRAN network resources IRP: CMIP solution set	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.651	Telecommunication Management; Configuration Management; GERAN network resources IRP: requirements	4.0.0	Rel-4	S5	PIRT, Trevor	.
TS	32.652	Telecommunication Management; Configuration Management; GERAN network resources IRP: NRM	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TS	32.653	Telecommunication Management; Configuration Management; GERAN network resources IRP: CORBA solution set	4.0.0	Rel-4	S5	ZHOU, Di	.
TS	32.654	Telecommunication Management; Configuration Management; GERAN network resources IRP: CMIP solution set	4.0.0	Rel-4	S5	TOVINGER, Thomas	.
TR	32.800	Management level procedures and interaction with UTRAN	4.0.0	Rel-4	S5	HIJDRA, Martiyn	.
TS	33.102	Security Architecture	4.1.0	Rel-4	S3	VINCK, Bart	
TS	33.103	Security Integration Guidelines	4.1.0	Rel-4	S3	BLANCHARD, Colin	
TS	33.105	Cryptographic Algorithm requirements	4.1.0	Rel-4	S3	CHIKAZAWA, Takeshi	
TS	33.106	Lawful interception requirements	4.0.0	Rel-4	S3	WILHELM, Berthold	TSG#11:4.0.0
TS	33.107	Lawful interception architecture and functions	4.0.0	Rel-4	S3	WILHELM, Berthold	
TS	33.120	Security Objectives and Principles	4.0.0	Rel-4	S3	WRIGHT, Tim	
TS	33.200	Network Domain Security - MAP	4.0.0	Rel-4	S3	KOIEN, Geir	TSG#11:4.0.0 - not ready!
TR	33.800	Principles for Network Domain Security	0.3.5	Rel-4	S3	VACANT,	v0.3.5 not fit for public gaze
TR	33.900	Guide to 3G security	none	Rel-4	S3	BROOKSON, Charles	
TR	33.901	Criteria for cryptographic Algorithm design process	4.0.0	Rel-4	S3	BLOM, Rolf	
TR	33.902	Formal Analysis of the 3G Authentication Protocol	4.0.0	Rel-4	S3	HORN, Guenther	
TR	33.903	Access Security for IP based services	none	Rel-4	S3	VACANT,	.
TR	33.903	Access Security for IP based services	none	Rel-4	S3	VACANT,	.
TR	33.904	Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms	none	Rel-4	S3	VACANT,	.
TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	4.0.0	Rel-4	S3	WALKER, Michael	TSG#11:4.0.0
TR	33.909	3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions	4.0.1	Rel-4	S3	WALKER, Michael	
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	none	Rel-4	T1	CHALABI, Nouhman	
TS	34.109	Logical Test Interface (TDD and FDD)	4.1.0	Rel-4	R2	BERGGREN, Anders	
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	none	Rel-4	T1	HIGUCHI, Kenji	

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TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	4.0.0	Rel-4	T1	MAUCKSCH, Thomas	
TS	34.123-1	UE conformance specification; Part 1: Conformance specification	none	Rel-4	T1	SALMERON, Lidia	
TS	34.123-2	UE conformance specification; Part 2: Implementation conformance statement (ICS)	none	Rel-4	T1	HU, Shicheng	
TS	34.123-3	UE conformance specification; Part 3: Abstract test suites (ATSs)	none	Rel-4	T1	HU, Shicheng	
TS	34.124	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	4.0.0	Rel-4	R4	SOERENSEN, Ole	
TR	34.910	Conformance Test specifications – Relevant for Regulatory use	1.0.0	Rel-4	T1	NIELSEN, Bjarke	. TSG#10:1.0.0
TR	34.926	Table of international EMC requirements	4.0.0	Rel-4	R4	FENN, John B	TP-000138 TSG#9:1.0.0 TSG#10:2.0.0 TSG#10:4.0.0
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	4.0.0	Rel-4	S3	WALKER, Michael	
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	4.0.0	Rel-4	S3	WALKER, Michael	
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	4.0.0	Rel-4	S3	WALKER, Michael	
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	4.0.0	Rel-4	S3	WALKER, Michael	
TR	35.205	3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	4.0.0	Rel-4	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4 TSG#11:4.0.0
TS	35.206	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	4.0.0	Rel-4	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4 TSG#11:4.0.0
TS	35.207	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	4.0.0	Rel-4	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4 TSG#11:4.0.0
TS	35.208	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	4.0.0	Rel-4	S3	WALKER, Michael	TSG#10:SP-000630, not to be published till OKed by Partners. TSG#10:3.0.0 TSG#11:changed to Rel-4 TSG#11:4.0.0
TR	35.909	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	4.0.0	Rel-4	S3	WALKER, Michael	TSG#11:Formerly 35.209 Rel-99 (but never made available) TSG#11:4.0.0
TS	41.001	GSM Specification set	1.0.0	Rel-4	SP	MEREDITH, John M	->41.102 TSG#10:1.0.0
TR	41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	4.0.1	Rel-4	S3	WRIGHT, Tim	
TR	41.033	Lawful Interception requirements for GSM	4.0.1	Rel-4	S3	MCKIBBEN, Bernie	
TS	41.061	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	4.0.0	Rel-4	S3	WALKER, Michael	
TS	41.102	GSM Release 4 specifications	4.1.0	Rel-4	SP	MEREDITH, John M	

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TS	42.009	Security Aspects	4.0.0	Rel-4	S3	CHRISTOFFERSSON, Per	
TS	42.017	Subscriber Identity Modules, Functional Characteristics	4.0.0	Rel-4	T3	HOOKER, Philip	
TS	42.019	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	4.0.0	Rel-4	T3	DIETRICH, Christian	.
TS	42.031	Fraud Information Gathering System (FIGS) Service description; Stage 1	4.0.0	Rel-4	S3	WRIGHT, Tim	
TS	42.032	Immediate Service Termination (IST); Service description; Stage 1	4.0.0	Rel-4	S3	WRIGHT, Tim	
TS	42.033	Lawful Interception; Stage 1	4.0.0	Rel-4	S3	MCKIBBEN, Bernie	
TS	42.043	Support of Localised Service Area (SoLSA); Service description; Stage 1	4.0.0	Rel-4	S1	KOKKOLA, Tommi	#27: 7.0.0 #29: 7.1.0 TSG#5 7.2.0 TSG#8:7.3.0 (no R99 version). TSG#11:4.0.0
TS	42.048	Security mechanisms for the SIM Application Toolkit; Stage 1	4.0.0	Rel-4	T3	BARNES, Nigel	TP-12: Becomes 22.048.
TS	42.053	Tandem Free Operation (TFO); Service description; Stage 1	none	Rel-4	S4	NAVARRO, William	
TS	42.056	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	4.0.0	Rel-4	S1	GALLIGO, Michel	
TS	42.068	Voice Group Call Service (VGCS); Stage 1	4.1.0	Rel-4	S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0)
TS	42.069	Voice Broadcast Service (VBS); Stage 1	4.1.0	Rel-4	S1	GILES, Les	#32:9.0.0 (based on CR to 8.0.0) TSG#10:4.1.0
TR	43.005	Technical performance objectives	4.0.0	Rel-4	NP	BOSWARTHICK, David	
TS	43.010	GSM Public Land Mobile Network (PLMN) Connection Types	4.1.0	Rel-4	N3	BRAUN, Achim	. TSG#10:4.0.0 TSG#11:4.1.0
TS	43.013	Discontinuous Reception (DRX) in the GSM System	4.0.0	Rel-4	G1	USAI, Paolino	
TS	43.019	GSM API for SIM toolkit stage 2	4.0.0	Rel-4	T3	DIETRICH, Christian	
TS	43.020	Security-related Network Functions	4.0.0	Rel-4	S3	GILBERT, Henri	#32:9.0.0->4.0.0
TS	43.022	Functions Related to Mobile Station (MS) in Idle Mode	4.3.0	Rel-4	G1	HOWELL, Andrew	#29: 8.0.0 #30: 8.1.0 #30bis: 8.2.0 eds 8.2.1 #31:8.3.0 GERAN#1:4.0.0 GERAN#2:4.1.0 GERAN#3:4.2.0
TR	43.026	Multiband operation of GSM/DCS 1800 by a single operator	4.0.0	Rel-4	G1	ANDERSEN, Niels Peter Skov	
TS	43.030	Radio Network Planning Aspects	4.0.1	Rel-4	G1	TEGTH, Ulf	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 GERAN#1:4.0.0
TS	43.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	4.0.0	Rel-4	S3	WRIGHT, Tim	
TS	43.033	Lawful Interception; Stage 2	4.0.0	Rel-4	S3	MCKIBBEN, Bernie	
TS	43.035	Immediate Service Termination (IST); Stage 2	4.0.0	Rel-4	S3	WRIGHT, Tim	
TS	43.045	Technical Realization of Facsimile Group 3 Service - transparent	4.0.0	Rel-4	N3	BOSWARTHICK, David	
TS	43.048	Security Mechanisms for SIM Toolkit Application; Stage 2	4.0.0	Rel-4	T3	BARNES, Nigel	TP-12: replaced by 23.048.
TS	43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	4.0.0	Rel-4	S4	USAI, Paolino	TSG#11:4.0.0
TS	43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	4.0.0	Rel-4	G1	SEBIRE, Guillaume	Created after TSG#8. GERAN#2:4.0.0
TS	43.052	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	4.0.0	Rel-4	G1	GIRAUD, Alexis	
TS	43.055	Dual Transfer Mode (DTM); Stage 2	4.1.0	Rel-4	G1	CARRIZO MARTÍNEZ, José Luis	
TR	43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	4.0.0	Rel-4	S4	MONFORT, Jean-Yves	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	43.059	Functional stage 2 description of Location Services in GERAN	4.1.0	Rel-4	GP	LIVINGSTON, Margaret	GERAN#2:1.0.0 GERAN#4:4.0.0
TS	43.063	Packet Data on Signalling channels service (PDS) Service description, Stage 2	4.0.0	Rel-4	N1	JACOBSOHN, Dieter	
TS	43.064	Overall description of the GPRS radio interface; Stage 2	4.1.0	Rel-4	G1	LEPPISAARI, Arto	#29: 7.0.0 #30: 7.1.0 GERAN#3:4.0.0 GERAN#4:4.1.0
TS	43.068	Voice Group Call Service (VGCS); Stage 2	4.2.0	Rel-4	N1	GARAPATY, Sonia	#31: 8.0.0 TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0 #32:9.0.0 TSG#8:9.0.0->4.0.0 TSG#9:4.1.0 TSG#10:4.2.0
TS	43.069	Voice Broadcast service (VBS); Stage 2	4.2.0	Rel-4	N1	GARAPATY, Sonia	#32:9.0.0 TSG#8:9.0.0 TSG#9:4.1.0 TSG#10:4.2.0
TS	43.071	Location services (LCS); Stage 2	4.0.0	Rel-4	S2	BROOK, Richard	Superseded by 23.271 Rel-4.
TS	44.001	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	4.0.0	Rel-4	N1	ANDERSEN, Niels Peter Skov	
TS	44.003	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	44.004	Layer 1 - General Requirements	4.0.0	Rel-4	G2	ISAACS, Ken	
TS	44.005	Data Link (DL) Layer General Aspects	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	44.006	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	44.008	Mobile radio interface layer 3 specification	4.0.0	Rel-4	N1	HOWELL, Andrew	
TS	44.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	TSG#11: Replaces 24.012 for Rel-4 on. GERAN#4:4.0.0
TS	44.013	Performance Requirements on Mobile Radio Interface	4.0.0	Rel-4	N1	PUDNEY, Chris	
TS	44.014	Individual equipment type requirements and interworking; Special conformance testing functions	4.1.0	Rel-4	G2	HOWELL, Andrew	
TS	44.018	Mobile Radio Interface - Layer 3 Specification RR part	4.5.0	Rel-4	G2	HOWELL, Andrew	#32:9.0.0 MCC-converted Aug00:4.0.0 GERAN#1: 4.1.0 GERAN#2:4.2.0 GERAN#3:4.3.0
TS	44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	4.0.0	Rel-4	N3	RÄSÄNEN, Juha	. TSG#10:4.0.0
TS	44.031	Location Services LCS RR LCS Protocol	4.1.0	Rel-4	G2	GARAPATY, Sonia	
TS	44.035	Location Services LCS Stage 3 E-OTD Enhanced Observed	4.0.0	Rel-4	G2	GARAPATY, Sonia	
TS	44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	4.0.0	Rel-4	N1	HUPPERICH, Peter	
TS	44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	4.0.0	Rel-4	N1	HUPPERICH, Peter	
TS	44.060	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	4.2.0	Rel-4	G2	BLACK, Jyoti	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:4.0.0
TS	44.063	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	4.0.0	Rel-4	N1	JACOBSOHN, Dieter	
TS	44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	4.1.0	Rel-4	N1	SALKINTZIS, Apostolis	
TS	44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	4.0.0	Rel-4	N1	SALKINTZIS, Apostolis	#23: 5.0.0 #24: 5.1.0 #25:withdrawn TSG#10:4.0.0
TS	44.068	Group Call Control (GCC) Protocol	4.2.0	Rel-4	N1	GARAPATY, Sonia	#32:9.0.0 TSG#8:9.0.0 GERAN#1:4.1.0
TS	44.069	Broadcast Call Control (BCC) protocol	4.2.0	Rel-4	N1	GARAPATY, Sonia	TSG#8:9.0GERAN#1:4.1.0
TS	44.071	Location services (LCS) stage 3	4.1.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	

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TS	45.001	Physical Layer on the Radio Path (General Description)	4.0.1	Rel-4	G1	JOKINEN, Harri	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #32:8.4.0 GERAN#1:4.0.0
TS	45.002	Multiplexing and Multiple Access on the Radio Path	4.3.0	Rel-4	G1	SÉBIRE, Benoist	#29: 8.0.1 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:4.0.0 GERAN#2:4.1.0 GERAN#3:4.2.0 GERAN#4:4.3.0
TS	45.003	Channel coding	4.0.0	Rel-4	G1	SÉBIRE, Benoist	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#2:8.6.0 GERAN#3:4.0.0
TS	45.004	Modulation	4.1.0	Rel-4	G1	SÉBIRE, Benoist	#28: 8.0.0 #30b 8.1.0 Rel-4 record created in error.
TS	45.005	Radio transmission and reception	4.4.0	Rel-4	G1	SAMUELSSON, Mats	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0 GERAN#2:4.1.0 GERAN#3:4.2.0 GERAN#4:4.3.0
TS	45.008	Radio subsystem link control	4.4.0	Rel-4	G1	EL-SAIGH, Amer	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:4.0.0 GERAN#2:4.1.0 GERAN#4:4.3.0
TS	45.009	Link adaptation	4.0.0	Rel-4	G1	ANDERSEN, Niels Peter Skov	
TS	45.010	Radio subsystem synchronization	4.0.0	Rel-4	G1	JOKINEN, Harri	
TR	45.022	Radio link management in hierarchical networks	4.0.0	Rel-4	G1	VAN BUSSEL, Han	
TR	45.050	Background for RF Requirements	4.0.1	Rel-4	G1	ANDERSEN, Niels Peter Skov	
TS	45.056	CTS-FP Radio Sub-system	4.0.0	Rel-4	G1	USAI, Paolino	
TS	46.001	Full Rate Speech Processing Functions	4.0.0	Rel-4	S4	USAI, Paolino	
TS	46.002	Half Rate Speech Processing Functions	4.0.0	Rel-4	S4	AFTELAK, Steve	
TS	46.006	Half-rate speech: ANSI-C code for GSM half-rate speech codec	4.0.0	Rel-4	S4	AFTELAK, Steve	
TS	46.007	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	4.0.0	Rel-4	S4	AFTELAK, Steve	
TR	46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	4.0.0	Rel-4	S4	SALEM, Tarek	
TS	46.010	Full-rate speech transcoding	4.1.0	Rel-4	S4	LORENZ, Dietmar	
TS	46.011	Substitution and Muting of Lost Frames for Full Rate Speech Channels	4.0.0	Rel-4	S4	NAVARRO, William	
TS	46.012	Comfort Noise Aspects for Full Rate Speech Traffic Channels	4.1.0	Rel-4	S4	SERENO, Daniele	
TS	46.020	Half Rate Speech Transcoding	4.0.0	Rel-4	S4	AFTELAK, Steve	
TS	46.021	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	4.0.0	Rel-4	S4	AFTELAK, Steve	
TS	46.022	Comfort Noise Aspects for Half Rate Speech Traffic Channels	4.0.0	Rel-4	S4	AFTELAK, Steve	
TS	46.031	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	4.0.0	Rel-4	S4	USAI, Paolino	
TS	46.032	Voice Activity Detection (VAD)	4.0.0	Rel-4	S4	BARRETT, Paul	
TS	46.041	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	4.0.0	Rel-4	S4	USAI, Paolino	
TS	46.042	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	4.0.0	Rel-4	S4	BARRETT, Paul	
TS	46.051	GSM Enhanced full rate speech processing functions: General description	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TS	46.053	ANSI-C code for the GSM Enhanced full rate speech codec	4.0.0	Rel-4	S4	JÄRVINEN, Kari	

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TS	46.054	Test sequences for the GSM Enhanced Full Rate (EFR)	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TR	46.055	Performance characterisation of the GSM EFR Speech Codec	4.0.0	Rel-4	S4	SALEM, Tarek	
TS	46.060	Enhanced full rate speech transcoding	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TS	46.061	Substitution and muting of lost frames for encanced full rate speech traffic channels	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TS	46.062	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TR	46.076	Adaptive Multi-Rate (AMR) speech codec; Study phase report	4.0.0	Rel-4	S4	USAI, Paolino	
TS	46.081	Discontinuous Transmission (DTX) for encanced full rate speech traffic channels	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TS	46.082	Voice Activity Detection (VAD) for encanced full rate speech traffic channels	4.0.0	Rel-4	S4	JÄRVINEN, Kari	
TR	46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	4.0.0	Rel-4	S4	USAI, Paolino	
TS	48.001	General Aspects on the BSS-MSC Interface	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	4.1.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.004	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.006	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	4.4.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	#32:9.0.0 MCC-converted Aug00:4.0.0 GERAN#1:4.1.0 GERAN#2:4.2.0 GERAN#3:4.3.0
TS	48.014	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	4.1.1	Rel-4	G2	ANDERSEN, Niels Peter Skov	GERAN#2:4.0.0
TS	48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	4.3.1	Rel-4	G2	BLACK, Jyoti	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.3.0 GERAN#2:4.0.0 GERAN#3:4.1.0
TS	48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	4.0.0	Rel-4	N3	RÄSÄNEN, Juha	
TS	48.031	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	4.1.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.051	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.052	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	4.0.1	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.054	BSC-BTS : Layer 1 Structure of Physical Circuits	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	

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TS	48.056	BSC-BTS Layer 2 Specification	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.058	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.060	In-band control of remote transcoders and rate adaptors for full rate traffic channels	4.0.1	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.061	Inband Control of Remote Transcoder and Rate Adaptors;(Half Rate)	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TS	48.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	none	Rel-4	S4	USAI, Paolino	-> 28.062
TS	48.071	Location services (LCS) SMLC-BSS interface L 3	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TR	49.001	General Network Interworking Scenarios	4.0.0	Rel-4	N4	VACANT,	
TS	49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	4.0.0	Rel-4	N1	JUKIC, Zdravko	
TS	49.031	Location Services LCS Extension (BSSAP-LE)	4.0.0	Rel-4	G2	ANDERSEN, Niels Peter Skov	
TR	50.043	Support of Localised Service Area (SoLSA); Work Item Status	none	Rel-4	S1	KOKKOLA, Tommi	2001-April:Clayton: stopped.
TS	50.056	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	4.0.0	Rel-4	S2	GALLIGO, Michel	Apr 2001 - Sultan:no Rel-4 will exist Jun 2001: confirmed, so withdrawn.
TR	50.059	Project scheduling and open issues for EDGE	4.0.0	Rel-4	G1	MUELLER, Frank	
TS	50.089	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	none	Rel-4	GP	ISAACS, Ken	Usai Apr-2001: will never be produced.
TR	50.099	GERAN project plan and open issues	0.0.6	Rel-4	GP	MUELLER, Frank	GERAN#3:0.0.4 May-2000: subsequent drafts 005, 006, 007 were wrongly numbered and were not subsequent at all, so do not appear in history; latest draft is ex GERAN#4 = 006.
TS	51.010-1	Mobile Station (MS) conformance specification; Part 1: Conformance specification	4.4.0	Rel-4	G4	HU, Shicheng	#32:9.0.0 MCC-converted Aug00:4.0.1 GERAN#2:4.1.0 GERAN#3:4.2.0 GERAN#4:4.3.0 GERAN#4:4.3.0
TS	51.010-2	Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	4.1.0	Rel-4	G4	HU, Shicheng	GERAN#4:4.0.0
TS	51.010-3	Mobile station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)	4.2.0	Rel-4	G4	HU, Shicheng	Tdoc 7-00-276; P-00-266 #32:9.0.0 GERAN#2:4.1.0
TS	51.010-4	Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification	none	Rel-4	G4	HU, Shicheng	.
TS	51.011	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	4.1.0	Rel-4	T3	GUTHERY, Scott B.	
TS	51.013	Test specification for SIM API for Java card	none	Rel-4	T3	LLOBREGAT, Fernando	
TS	51.014	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	none	Rel-4	T3	WOODSEND, Kristian	TSG-T agreed not to have a rel-4 version. The 3G equivalent (31.111) will be upgraded to include a GSM-only annex
TS	51.021	GSM Radio Aspects Base Station System Equipment Specification	none	Rel-4	G3	BUSIN, Ake	.
TS	51.026	GSM Repeater Equipment Specification	none	Rel-4	G3	BUSIN, Ake	.
TS	52.071	Location Services (LCS); Location services management	4.0.0	Rel-4	S5	GARAPATY, Sonia	
Release 5 3GPP Specifications and reports							
TS	21.103	3rd Generation mobile system Release 5 specifications	0.1.0	Rel-5	SP	MEREDITH, John M	.

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TR	21.905	3G Vocabulary	5.0.0	Rel-5	S1	ZARRI, Michele	.
TS	22.038	SIM application toolkit (SAT); Stage 1	5.2.0	Rel-5	S1	CARPENTER, Paul	
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	5.1.0	Rel-5	S1	CATALDO, Mark	
TS	22.078	CAMEL; Stage 1	5.3.0	Rel-5	S1	GRECH, Michel	
TS	22.101	UMTS Service principles	5.3.0	Rel-5	S1	DWYER, Paul	
TS	22.115	Service Aspects Charging and billing	5.1.0	Rel-5	S1	MONTEGROSSO, Emanuele	TSG#11:5.0.0
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment; Stage 1	5.1.0	Rel-5	S1	OGUNBEKUN, Jumoke	TSG#7: 3.2.0 TSG#8:3.3.0 TSG#9:4.0.0
TS	22.127	Service Requirement for the Open Services Access (OSA); Stage 1	5.0.0	Rel-5	S1	SWETINA, Joerg	.
TS	22.141	Support of Presence Capability (SOP); stage 1	1.0.0	Rel-5	S1	WOHLERT, Randolph	.
TS	22.146	Multimedia Broadcast/Multicast Service; Stage 1	none	Rel-5	S1	JARVIS, Andre	To be approved SA#13.
TS	22.226	Global text telephony; Stage 1: Service description	5.0.0	Rel-5	S1	HELLSTROM, Gunnar	WI approved TSG#7 TSG#9:1.0.0
TS	22.228	IP multimedia subsystem; Stage 1	5.2.0	Rel-5	S1	CATALDO, Mark	Clayton 2000-10-16: Rel-5 confirmed. TSG#10:2.0.0=SP-000552 TSG#10:5.0.0 TSG#11:5.1.0
TR	22.928	IP-based multimedia services examples	none	Rel-5	S1	CATALDO, Mark	.
TR	22.941	IP based multimedia framework specifications	0.2.4	Rel-5	S1	WOHLERT, Randolph	.
TR	22.946	Broadcast and multicast services	1.0.0	Rel-5	S1	,	To be scrapped SP-13.
TS	23.002	Network Architecture	5.3.0	Rel-5	S2	SULTAN, Alain	Open issues to be finalized by TSG#7. TSG#7: 3.3.0 TSG#9:5.0.0 TSG#10:5.1.0 TSG#11:5.2.0
TS	23.003	Numbering, Addressing and Identification	5.0.0	Rel-5	N4	GAASVIK, Per-Ola	.
TS	23.018	Basic Call Handling - Technical realization	5.0.0	Rel-5	N4	PARK, Ian David Chalmers	.
TS	23.040	Technical realisation of Short Message Service	5.0.0	Rel-5	T2	HARRIS, Ian	.
TS	23.048	Security Mechanisms for SIM Toolkit Application; Stage 2	5.0.0	Rel-5	T3	BARNES, Nigel	.
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	5.0.0	Rel-5	N4	RUSSELL, Nick	.
TS	23.107	Quality of Service, Concept and Architecture	5.1.0	Rel-5	S2	GREIS, Marc	TSG#11:5.0.0
TS	23.121	Architecture Requirements for release 99	5.0.0	Rel-5	S2	DANIEL, Elizabeth	TSG#7: 3.3.0 TSG#9:5.0.0 Oct00: CRs were approved by accident, it seems. Intention was to create 23.221 v5.0.0 rather than a Rel-5 of this spec. CR will be retrospectively withdrawn.
TS	23.207	End to end quality of service concept and architecture	5.0.0	Rel-5	S2	OYAMA, Johnson	.
TS	23.218	IP Multimedia (IM) session handling; IM call model	0.5.0	Rel-5	N1	ALLEN, Andrew	.
TS	23.221	Architectural requirements	5.1.0	Rel-5	S2	DANIEL, Elizabeth	TSG#11:5.0.0
TS	23.226	Global text telephony; Stage 2: Architecture	5.0.0	Rel-5	N4	HELLSTROM, Gunnar	WI approved TSG#7
TS	23.228	IP multimedia subsystem; Stage 2	5.1.0	Rel-5	S2	TOWLE, Thomas	Rel4->Rel5 TSG#10:1.4.0=SP-000598 TSG#10:1.4.0 TSG#11:5.0.0
TS	23.236	Intra-domain connection of radio access network nodes to multiple core network nodes	1.1.0	Rel-5	S2	TERRILL, Stephen	.
TS	23.271	Functional stage 2 description of location services	none	Rel-5	S2	KÅLL, Jan	.
TR	23.955	Virtual Home Environment (VHE) concepts	0.1.0	Rel-5	S2	SULTAN, Alain	.
TR	23.974	Support of push service	5.0.0	Rel-5	S2	UDA, Nobuyuki	TSG#11:5.0.0 May-2001: Sultan wonders whether this spec is needed.
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	5.0.0	Rel-5	N1	HOWELL, Andrew	.

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	24.228	Signalling flows for the IP multimedia call control based on SIP and SDP; stage 3	1.2.0	Rel-5	N1	O'HARE, John	TSG#10: N1-001114->1378 (NP-000683) TSG#10:0.1.0
TS	24.229	IP Multimedia Call Control Protocol based on SIP and SDP; stage 3	0.4.0	Rel-5	N1	DRAGE, Keith	TSG#10: N1-001115->1379 (NP-000684) TSG#10:0.0.6
TS	25.305	Stage 2 functional specification of UE positioning in UTRAN	5.1.0	Rel-5	R2	MIHAILESCU, Claudiu	
TS	25.401	UTRAN Overall Description	5.0.0	Rel-5	R3	CALMEL, Jean-Marie	.
TS	25.450	UTRAN Iupc interface general aspects and principles	5.0.0	Rel-5	R3	LIN, Ie-Hong	.
TS	25.451	UTRAN Iupc interface layer 1	5.0.0	Rel-5	R3	LIN, Ie-Hong	.
TS	25.452	UTRAN Iupc interface signalling transport	none	Rel-5	R3	LIN, Ie-Hong	.
TS	25.453	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	5.0.0	Rel-5	R3	LIN, Ie-Hong	.
TR	25.854	Uplink Synchronous Transmission Scheme (USTS)	1.0.0	Rel-5	R1	KIM, Duk Kyung	. TSG#11:1.0.0
TR	25.855	High Speed Downlink Packet Access (HSDPA); Overall UTRAN description	1.0.0	Rel-5	R2	KUCHIBHOTLA, Ravi	.
TR	25.856	High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects hans	none	Rel-5	R2	KUCHIBHOTLA, Ravi	.
TR	25.857	UE positioning enhancements	none	Rel-5	R2	BECKMANN, Mark	.
TR	25.858	Physical layer aspects of UTRA High Speed Downlink Packet Access	none	Rel-5	R1	GHOSH, Amitabha	.
TR	25.868	Node B synchronization for 1,28 Mcps, TDD	none	Rel-5	R1	HU, Jinling	.
TR	25.869	RAN WG1 report on Tx diversity solutions for multiple antennas	1.0.0	Rel-5	R1	KIM, Sung-Jin	.
TR	25.870	Enhancement on the DSCH Hard Split mode	0.1.0	Rel-5	R1	KIM, Jaeyoel	.
TR	25.875	NAS node selector function	0.0.1	Rel-5	R3	MCWILLIAMS, Brendan	. TSG#11:5.0.0
TR	25.876	Multiple-Input Multiple-Output Antenna Processing for HSDPA	none	Rel-5	R1	HUANG, Howard	.
TR	25.877	High Speed Downlink Packet Access (HSDPA) - Iub/Iur Protocol Aspects	none	Rel-5	R3	DIESEN, Michael	.
TR	25.878	RL Timing Adjustment	none	Rel-5	R3	VOLTOLINA, Elena	.
TR	25.879	Separation of resource reservation and radio link activation	none	Rel-5	R3	LIESHOUT, Gert-Jan	.
TS	25.880	Traffic Termination Point Swapping	none	Rel-5	R3	ISOKANGAS, Jari	.
TR	25.881	Improvement of Radio Resource Management across RNS and RNS/BSS	none	Rel-5	R3	HWANG, Woonhee	.
TR	25.882	1,28 Mcps TDD option base station classification	none	Rel-5	R4	MEYER, Juergen	.
TR	25.952	Base Station classification (TDD)	5.0.0	Rel-5	R4	AXNESS, Timothy	promoted from Rel-4 at RP-12.
TS	26.103	Codec lists	5.0.0	Rel-5	S4	HELLWIG, Karl	. TSG#10:4.0.0 TSG#11:5.0.0
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	5.0.0	Rel-5	S4	GOETZ, Ian	TSG#11:5.0.0
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	5.0.0	Rel-5	S4	GOETZ, Ian	
TS	26.171	AMR speech codec, wideband; General description	5.0.0	Rel-5	S4	EKUDDEN, Erik	TSG#10:1.0.0=NP-000556 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.173	AMR speech codec, wideband; C-source code	5.1.1	Rel-5	S4	EKUDDEN, Erik	TSG#10:1.0.0=NP-000557 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.174	AMR speech codec, wideband; Test sequences	5.1.0	Rel-5	S4	EKUDDEN, Erik	. TSG#11:5.0.0
TS	26.190	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	5.0.0	Rel-5	S4	VACANT,	TSG#10:1.0.0=NP-000663 TSG#10:1.0.0 TSG#11:5.0.0

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TS	26.191	AMR speech codec, wideband; Error concealment of lost frames	5.0.0	Rel-5	S4	EKUDDEN, Erik	TSG#10:1.0.0=NP-000559 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.192	Mandatory Speech Codec speech processing functions AMR Wideband Speech Codec; Comfort noise aspects	5.0.0	Rel-5	S4	VACANT,	TSG#10:1.0.0=NP-000560 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.193	AMR speech codec, wideband; Source Controlled Rate operation	5.0.0	Rel-5	S4	EKUDDEN, Erik	TSG#10:1.0.0=NP-000561 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.194	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)	5.0.0	Rel-5	S4	VACANT,	TSG#10:1.0.0=NP-000562 TSG#10:1.0.0 TSG#11:4.0.0
TS	26.201	AMR speech codec, wideband; Frame structure	5.0.0	Rel-5	S4	HAGQVIST, Jari	TSG#10:1.0.0=NP-000563 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.202	AMR speech codec, wideband; Interface to Iu and Uu	5.0.0	Rel-5	S4	NAVARRO, William	TSG#10:1.0.0=NP-000564 TSG#10:1.0.0 TSG#11:5.0.0
TS	26.226	Global text telephony;Transport of text in the voice channel	5.0.0	Rel-5	S4	HELLSTROM, Gunnar	WI approved TSG#7 TSG#9:0.0.9 TSG#10:2.0.0=SP-000569(Rel-5)->Rel-4 TSG#10:4.0.0 TSG#11:5.0.0
TS	26.230	Global text telephony; Cellular text telephone modem transmitter C-code description description	5.0.1	Rel-5	S4	HELLSTROM, Gunnar	TSG#10:2.0.0=SP-000570(Rel-5)->Rel-4 TSG#10:4.0.0 TSG#11:5.0.0
TS	26.231	Global text telephony; Cellular text telephone modem minimum performance requirements	5.0.0	Rel-5	S4	HELLSTROM, Gunnar	. TSG#10:1.0.0 TSG#11:5.0.0
TS	26.235	Packet switched conversational multimedia applications; Default codecs	5.0.0	Rel-5	S4	OJALA, Pasi	SP-12: transferred to Rel-5.
TR	26.976	Results of the AMR wideband (AMR-W) selection phase	0.3.0	Rel-5	S4	JÄRVINEN, Kari	.
TS	27.104	vObjects and other constructs for data synchronization	0.1.1	Rel-5	T2	LOCKHART, Rob	TSG#10:SP-000657 TSG#10:0.1.1 TSG#11:Rel4->Rel5.
TS	27.226	Global Text telephony;Terminal aspects	none	Rel-5	T2	HELLSTROM, Gunnar	WI approved TSG#7
TS	29.162	Interworking between the IM CN subsystem and IP networks	0.1.0	Rel-5	N3	HOLLAND, Nigel	.
TS	29.163	Interworking between the IM CN subsystem and CS networks	0.1.0	Rel-5	N3	HOLLAND, Nigel	.
TS	29.198-09	Open Service Access (OSA) Application Programming Interface (API); Part 9: Generic messaging SCF	none	Rel-5	N5	,	2001-05-18: Changed to Rel-5 from Rel-4 on info from Zoicas.
TS	29.198-10	Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager SCF	none	Rel-5	N5	,	2001-05-18: Changed to Rel-5 from Rel-4 on info from Zoicas.
TS	29.203	Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)	none	Rel-5	N4	YOUNG, Michael	. TSG#11:creation; superseded by 29.903
TS	29.207	End to end quality of service; stage 3	none	Rel-5	N3	YOKOTA, Daisuke	.
TS	29.226	reserved	none	Rel-5	N4	VACANT,	WI approved TSG#7
TS	29.228	IP Multimedia (IM) Subsystem Cx Interface; Signalling flows and message contents	0.1.0	Rel-5	N4	CZOMA, Balazs	.
TR	29.903	Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)	0.1.0	Rel-5	N4	YOUNG, Michael	NP-11:creation Supersedes 29.203
TR	29.998-04-2	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 2:	none	Rel-5	N5	UNMEHOPA, Musa	
TR	29.998-05-2	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2:	none	Rel-5	N5	UNMEHOPA, Musa	
TR	29.998-05-3	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3	none	Rel-5	N5	UNMEHOPA, Musa	
TS	31.114	USAT interpreter protocol and administration	none	Rel-5	T3	MEYER, Michael	

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TS	32.112	Telecommunication Management; Fault Management; Alarm Integration Reference Point: Information Service	none	Rel-5	S5	JURE, Patrick	.
TS	32.113	Telecommunication Management; Fault Management; Alarm Integration Reference Point: CORBA solution set version 1:1	none	Rel-5	S5	JURE, Patrick	.
TS	32.114	Telecommunication Management; Fault Management; Alarm Integration Reference Point: CMIP solution set	none	Rel-5	S5	JURE, Patrick	.
TS	32.140	3G Service Management Requirements & Framework	0.1.3	Rel-5	S5	CARYER, Geoffrey	.
TS	32.200	Telecommunication management; Charging management; Charging principles	1.0.1	Rel-5	S5	,	.
TS	32.225	Telecom management; Charging management; Charging data description for the IMS domain	none	Rel-5	S5	,	.
TR	32.801	Performance management	none	Rel-5	S5	KORINEK, Frank	.
TS	33.106	Lawful interception requirements	5.0.0	Rel-5	S3	WILHELM, Berthold	TSG#11:5.0.0
TS	33.107	Lawful interception architecture and functions	5.0.0	Rel-5	S3	WILHELM, Berthold	.
TS	33.108	Lawful Interception; Interface between core network and law agency equipment	none	Rel-5	S3	WILHELM, Berthold	.
TS	33.201	Access domain security	none	Rel-5	S3	POPE, Maurice	.
TS	33.203	Access Security for IP based services	5.0.0	Rel-5	S3	BOMAN, Krister	
TS	33.210	Network Domain Security - IP	none	Rel-5	S3	VACANT,	Freeze March 2002?
TR	33.800	Principles for Network Domain Security	none	Rel-5	S3	VACANT,	.
TR	33.903	Access Security for IP based services	none	Rel-5	S3	VACANT,	.
TR	33.903	Access Security for IP based services	none	Rel-5	S3	VACANT,	.
TS	41.103	GSM Release 5 specifications	0.1.0	Rel-5	SP	MEREDITH, John M	.
TS	42.019	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	5.0.0	Rel-5	T3	DIETRICH, Christian	.
TS	43.019	GSM API for SIM toolkit stage 2	5.0.0	Rel-5	T3	DIETRICH, Christian	.
TS	43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	5.0.0	Rel-5	S4	USAI, Paolino	TSG#11:5.0.0
TS	43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	5.2.0	Rel-5	G1	SEBIRE, Guillaume	Created after TSG#8. GERAN#2:4.0.0 GERAN#3:5.0.0 GERAN#4:5.1.0
TS	43.059	Functional stage 2 description of Location Services in GERAN	none	Rel-5	GP	LIVINGSTON, Margaret	.
TS	44.018	Mobile Radio Interface - Layer 3 Specification RR part	5.1.0	Rel-5	G2	HOWELL, Andrew	.
TS	45.001	Physical Layer on the Radio Path (General Description)	5.0.0	Rel-5	G1	JOKINEN, Harri	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #32:8.4.0 GERAN#1:4.0.0 GERAN#3:5.0.0
TS	45.002	Multiplexing and Multiple Access on the Radio Path	5.1.0	Rel-5	G1	SÉBIRE, Benoist	#29: 8.0.1 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:4.0.0 GERAN#2:4.1.0 GERAN#3:5.0.0 GERAN#4:5.1.0
TS	45.003	Channel coding	5.1.0	Rel-5	G1	SÉBIRE, Benoist	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#2:8.6.0 GERAN#3:5.0.0
TS	45.005	Radio transmission and reception	5.0.0	Rel-5	G1	SAMUELSSON, Mats	.
TS	45.008	Radio subsystem link control	5.2.0	Rel-5	G1	EL-SAIGH, Amer	. GERAN#4:5.1.0
TS	45.009	Link adaptation	5.0.0	Rel-5	G1	ANDERSEN, Niels Peter Skov	#31:8.0.0 #32:8.1.0 GERAN#2:8.2.0 GERAN#3:8.3.05.0.0
TS	48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	5.0.0	Rel-5	G2	ANDERSEN, Niels Peter Skov	.

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TS	48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	5.1.0	Rel-5	G2	ANDERSEN, Niels Peter Skov	.
TS	48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	5.0.0	Rel-5	G2	BLACK, Jyoti	.
TS	48.058	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	5.1.0	Rel-5	G2	ANDERSEN, Niels Peter Skov	.
Release 1999 GSM Specifications and reports							
TR	01.00	Working Procedures for SMG	8.0.0	R99	SP	BERGMANN, Ansgar	#30: 8.0.0
TS	01.01	GSM Release 1999 Specifications	8.2.0	R99	SP	MEREDITH, John M	info at #30 Alignment with 21.101: 1.1.0. Aprvl expected SMG#31b; or #32 … #32:2.0.0 -> 8.0.0 TSG#10:8.1.0
TR	01.04	Abbreviations and Acronyms	8.0.0	R99	GP	CLAYTON, Michael	.
TR	01.31	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	8.0.0	R99	S3	WRIGHT, Tim	.
TR	01.33	Lawful Interception requirements for GSM	8.0.0	R99	S3	MCKIBBEN, Bernie	.
TS	01.56	GSM Cordless Telephony System (CTS) (Phase 1); CTS Authentication and Key Generation Algorithms Requirements	8.0.0	R99	S1	MESSIET, Samira	CTS is dead duck
TS	01.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	8.0.0	R99	S3	WALKER, Michael	.
TS	02.01	Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network(PLMN)	8.2.0	R99	S1	KOKKOLA, Tommi	#28: 8.0.0 #29: 8.1.0 #30: 8.2.0 TSG#6: ->3G
TS	02.02	Bearer Services (BS) Supported by a GSM Public Land Mobile Network (PLMN)	8.0.0	R99	S1	CARPENTER, Paul	#29: 8.0.0 (deleted, moved to 3GPP)
TS	02.03	Teleservices Supported by a GSM Public Land Mobile Network (PLMN)	8.0.0	R99	S1	CONRAD, Alan	#30: 8.0.0 TSG#6->3g
TS	02.04	General on Supplementary Services	8.1.0	R99	S1	CARPENTER, Paul	#28: 8.0.0 #29: 8.1.0 (to be deleted, moved to 3GPP)
TS	02.07	Mobile Station (MS) Features	8.1.0	R99	S1	JEAL, David	#29: 8.0.0 #30: 8.1.0 TSG#6: withdrawn
TS	02.09	Security Aspects	8.0.1	R99	S3	CHRISTOFFERSSON, Per	.
TS	02.17	Subscriber Identity Modules, Functional Characteristics	8.0.0	R99	T3	HOOKER, Philip	#30: 8.0.0
TS	02.19	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	8.0.0	R99	T3	DIETRICH, Christian	Target: Mid-2001; must await stable 11.14 R99. TP-12: approved
TS	02.31	Fraud Information Gathering System (FIGS) Service description; Stage 1	8.0.1	R99	S3	WRIGHT, Tim	.
TS	02.32	Immediate Service Termination (IST); Service description; Stage 1	8.0.1	R99	S3	WRIGHT, Tim	.
TS	02.33	Lawful Interception; Stage 1	8.0.1	R99	S3	MCKIBBEN, Bernie	.
TS	02.34	High Speed Circuit Switched Data (HSCSD); Stage 1	8.1.0	R99	S1	MUHONEN, Ahti	#28: 8.0.0 #29: 8.1.0 (to be deleted, moved to 3GPP)
TS	02.40	Procedures for Call Progress Indications	8.0.0	R99	S1	DWYER, Paul	#30: 8.0.0
TS	02.42	Network Identity and Timezone (NITZ); Service Description, Stage 1	8.0.0	R99	S1	GILES, Les	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	02.43	Support of Localised Service Area (SoLSA); Service description; Stage 1	8.0.0	R99	S1	KOKKOLA, Tommi	TSG#11:upgraded to Rel-4 (42.043) so assume we need a Rel-1999 version too!
TS	02.48	Security mechanisms for the SIM Application Toolkit; Stage 1	8.0.0	R99	T3	BARNES, Nigel	.
TS	02.53	Tandem Free Operation (TFO); Service description; Stage 1	8.0.1	R99	S4	NAVARRO, William	Nov-00: Created to fill the gap.

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TS	02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	8.0.1	R99	S1	GALLIGO, Michel	.
TS	02.57	Mobile Station Application Execution Environment (MExE) Service description Stage 1	8.0.0	R99	S1	CLAYTON, Michael	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	02.60	General Packet Radio Service Stage 1 Description	8.1.0	R99	S1	CARPENTER, Paul	#28: 8.0.0 #29: 8.1.0 (deleted, moved to 3GPP)
TS	02.68	Voice Group Call Service (VGCS); Stage 1	8.1.0	R99	S1	GILES, Les	#31:8.0.0 TSG#10:8.1.0
TS	02.69	Voice Broadcast Service (VBS); Stage 1	8.1.0	R99	S1	GILES, Les	. TSG#10:8.1.0
TS	02.76	Noise Suppression for the AMR	8.0.1	R99	S4	USAI, Paolino	#29: 2.0.0 but approval status unclear. R98 or R99? Conclusion: was approved, R99.
TS	02.78	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)	8.0.0	R99	S1	GRECH, Michel	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	02.82	Call Forwarding (CF) Supplementary Services; Stage 1	8.0.0	R99	S1	EVEN, Anne	#28: 8.0.0 (to be deleted, moved to 3GPP)
TS	02.90	Stage 1 Decision of Unstructured Supplementary Service Data (USSD)	8.0.0	R99	S1	SLOTTE, Sverre	#28: 8.0.0 (to be deleted, moved to 3GPP)
TS	02.94	Follow Me Service description; Stage 1	8.0.0	R99	S1	CLAYTON, Michael	#28: 1.0.0 #30: 8.0.0
TS	02.95	Support of Private Numbering Plan (SPNP); Service description; Stage 1	8.0.0	R99	S1	CLAYTON, Michael	.
TS	03.01	Network Functions	8.0.0	R99	S2	GAASVIK, Per-Ola	Never produced; make do with R98 version.
TR	03.05	Technical performance objectives	8.0.0	R99	NP	BOSWARTHICK, David	.
TS	03.10	GSM Public Land Mobile Network (PLMN) Connection Types	8.3.0	R99	N3	BRAUN, Achim	#29: 8.0.0 TSG#6: 8.1.0 TSG#9:8.2.0 TSG#10:8.3.0
TS	03.13	Discontinuous Reception (DRX) in the GSM System	8.0.0	R99	G1	USAI, Paolino	.
TS	03.19	GSM API for SIM toolkit stage 2	8.2.0	R99	T3	DIETRICH, Christian	Target: Mid-2001; must await stable 11.14 R99. TSG#10:8.0.0 TSG#11:8.1.0
TS	03.20	Security-related Network Functions	8.1.0	R99	S3	NGUYEN NGOC, Sebastien	#32:8.1.0
TS	03.22	Functions related to Mobile Station (MS) in idle mode and group receive mode	8.5.0	R99	G1	ANDERSEN, Niels Peter Skov	
TR	03.26	Multiband operation of GSM/DCS 1800 by a single operator	8.0.0	R99	G1	ANDERSEN, Niels Peter Skov	.
TR	03.30	Radio Network Planning Aspects	8.3.0	R99	GP	TEGTH, Ulf	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0
TS	03.31	Fraud Information Gathering System (FIGS); Service description; Stage 2	8.0.0	R99	S3	WRIGHT, Tim	.
TS	03.33	Lawful Interception; Stage 2	8.1.0	R99	S3	MCKIBBEN, Bernie	TSG#10:8.1.0
TS	03.35	Immediate Service Termination (IST); Stage 2	8.1.0	R99	S3	WRIGHT, Tim	. TSG#11:8.1.0
TR	03.43	Support of Videotex	8.0.0	R99	T2	DI TRIA, Paolo	Frozen at v7
TR	03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	8.0.0	R99	T2	RODERMUND, Friedhelm	Frozen at v7
TS	03.45	Technical Realization of Facsimile Group 3 Service - transparent	8.0.0	R99	N3	BOSWARTHICK, David	#29: 8.0.0
TS	03.46	Technical Realization of Facsimile Group 3 Service - non transparent	8.0.0	R99	N3	BOSWARTHICK, David	#29: 7.0.0 TSG#6: 8.0.0 (source Klehn)
TR	03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	8.0.0	R99	T2	RODERMUND, Friedhelm	Frozen at v7
TS	03.48	Security Mechanisms for SIM Toolkit Application; Stage 2	8.6.0	R99	T3	BARNES, Nigel	

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TR	03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controler (BSC)	8.0.0	R99	T2	RODERMUND, Friedhelm	Frozen at v7
TS	03.50	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	8.1.1	R99	S4	USAI, Paolino	#32:8.1.0
TS	03.52	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	8.0.1	R99	G1	GIRAUD, Alexis	.
TS	03.53	Tandem Free Operation (TFO); Service description; Stage 2	8.0.0	R99	S4	FAUCONNIER, Denis	.
TS	03.55	Dual Transfer Mode (DTM); Stage 2	8.0.0	R99	G1	CARRIZO MARTÍNEZ, José Luis	GERAN#2: 8.0.0
TS	03.56	GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2	8.0.0	R99	S2	ROBERTS, Martin	Never produced; make do with R98 version.
TR	03.58	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	8.0.0	R99	S4	MONFORT, Jean-Yves	.
TS	03.63	Packet Data on Signalling channels service (PDS) Service description, Stage 2	8.0.0	R99	N1	JACOBSOHN, Dieter	#31: 8.0.0
TS	03.64	Overall description of the GPRS radio interface; Stage 2	8.8.0	R99	G1	LEPPISAARI, Arto	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#3:8.7.0 GERAN#4:8.8.0
TS	03.68	Voice Group Call Service (VGCS); Stage 2	8.2.0	R99	N1	GARAPATY, Sonia	#31: 8.0.0 TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0
TS	03.69	Voice Broadcast service (VBS); Stage 2	8.2.0	R99	N1	MÜNNING, Dirk	TSG#7: 8.1.0 #32:8.2.0 TSG#8:8.2.0
TS	03.71	Location services (LCS); Stage 2	8.2.0	R99	S2	BROOK, Richard	Need identified at TSG#7, since 23.171 does not cover GSM. TSG#11:8.1.0
TS	03.82	Call Forwarding (CF) Supplementary Services; Stage 2	8.0.0	R99	N4	POTHS, Annette	#28: 8.0.0 (to be deleted, moved to 3GPP)
TS	04.01	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	8.0.0	R99	N1	ANDERSEN, Niels Peter Skov	#31: 8.0.0
TS	04.03	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	#30: 8.0.0
TS	04.04	Layer 1 - General Requirements	8.1.0	R99	G2	ISAACS, Ken	#30: 8.0.0 #30b: 8.1.0
TS	04.05	Data Link (DL) Layer General Aspects	8.0.1	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	04.06	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	8.1.1	R99	G2	ANDERSEN, Niels Peter Skov	. GERAN#3:8.1.0
TS	04.08	Mobile radio interface layer 3 specification	8.0.0	R99	N1	HOWELL, Andrew	#29: 8.0.0 but perhaps this should not have been created! (24.008 instead)
TS	04.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	Replaces 24.012 R99.
TS	04.13	Performance Requirements on Mobile Radio Interface	8.0.1	R99	N1	PUDNEY, Chris	#31: 8.0.0
TS	04.14	Individual equipment type requirements and interworking; Special conformance testing functions	8.3.0	R99	G2	HOWELL, Andrew	#32:8.1.0
TS	04.18	Mobile radio interface layer 3 specification; Radio Resource Control Protocol	8.10.0	R99	G2	HOWELL, Andrew	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:8.8.0
TS	04.21	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	8.3.0	R99	N3	RÄSÄNEN, Juha	#29: 8.0.0 TSG#8:8.1.0 TSG#9:8.2.0 TSG#10:8.3.0
TS	04.22	Radio Link Protocol for Data and Telematic Services on the MS-BSS Interface	8.0.0	R99	N3	KLEHN, Norbert	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	04.31	Location Services LCS RR LCS Protocol	8.5.0	R99	G2	GARAPATY, Sonia	
TS	04.35	Location Services LCS Stage 3 E-OTD Enhanced Observed	8.3.0	R99	G2	GARAPATY, Sonia	. GERAN#1:8.2.0 GERAN#3:8.3.0

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TS	04.56	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	8.0.1	R99	N1	HUPPERICH, Peter	#31: 8.0.0
TS	04.57	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	8.0.1	R99	N1	HUPPERICH, Peter	#31: 8.0.0
TS	04.60	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	8.10.0	R99	G2	BLACK, Jyoti	
TS	04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	8.0.1	R99	N1	JACOBSOHN, Dieter	#31: 8.0.0
TS	04.64	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	8.6.0	R99	N1	SALKINTZIS, Apostolis	#29: 8.0.0 #30: 8.1.0 post-TSG#6:8.2.0 #31:8.3.0 TSG#8:8.4.0 TSG#9:8.5.0 TSG#10:8.6.0
TS	04.65	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	8.1.0	R99	N1	SALKINTZIS, Apostolis	#31: 8.0.0 TSG#9:8.1.0
TS	04.68	Group Call Control (GCC) Protocol	8.1.0	R99	N1	GARAPATY, Sonia	#31: 8.0.0 TSG#7: 8.1.0
TS	04.69	Broadcast Call Control (BCC) protocol	8.1.0	R99	N1	GARAPATY, Sonia	#31: 8.0.0 TSG#7: 8.1.0
TS	04.71	Location services (LCS) stage 3	8.2.0	R99	G2	ANDERSEN, Niels Peter Skov	#32:8.1.0
TS	04.94	Follow Me Service description; Stage 3	none	R99	-	SWETINA, Joerg	scrapped whilst still on starting block
TS	05.01	Physical Layer on the Radio Path (General Description)	8.5.0	R99	GP	JOKINEN, Harri	#29: 8.0.0 #30: 8.1.0 #30b:8.2.0 #31:8.3.0 #32:8.4.0 GERAN#1:8.5.0
TS	05.02	Multiplexing and Multiple Access on the Radio Path	8.9.0	R99	G1	SÉBIRE, Benoist	#29: 8.0.1 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:8.8.0 GERAN#4:8.9.0
TS	05.03	Channel coding	8.6.1	R99	G1	SÉBIRE, Benoist	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#2:8.6.0
TS	05.04	Modulation	8.3.0	R99	G1	SÉBIRE, Benoist	#28: 8.0.0 #30b 8.1.0 GERAN#3:8.2.0
TS	05.05	Radio Transmission and Reception	8.10.0	R99	G1	SAMUELSSON, Mats	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:8.8.0 GERAN#4:8.9.0
TS	05.08	Radio Subsystem Link Control	8.10.0	R99	G1	EL-SAIGH, Amer	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.3.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:8.8.0 GERAN#4:8.9.0
TS	05.09	Link adaptation	8.3.0	R99	G1	ANDERSEN, Niels Peter Skov	#31:8.0.0 #32:8.1.0 GERAN#2:8.2.0 GERAN#3:8.3.0
TS	05.10	Radio subsystem synchronization	8.8.0	R99	G1	JOKINEN, Harri	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.2.0 #32:8.4.0 GERAN#1:8.5.0 GERAN#2:8.6.0 GERAN#3:8.7.0 GERAN#4:8.8.0
TR	05.14	Release independent frequency bands; Implementation guidelines	none	R99	G1	KANGAS, Antti	Originally allocated as 09.20. Changed by request of GERAN chair 2000-11-09. R99 will not be produced (source: Usai 2001-01-05)
TR	05.22	Radio link management in hierarchical networks	8.0.0	R99	G1	VAN BUSSEL, Han	.
TR	05.50	Background for RF Requirements	8.2.0	R99	G1	ANDERSEN, Niels Peter Skov	#30: 8.0.0 #31:8.1.0 #31b:8.2.0
TS	05.56	CTS-FP Radio Sub-system	8.0.1	R99	G1	USAI, Paolino	.
TS	06.01	Full Rate Speech Processing Functions	8.0.1	R99	S4	USAI, Paolino	.
TS	06.02	Half Rate Speech Processing Functions	8.0.0	R99	S4	AFTELAK, Steve	.
TS	06.06	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	8.0.1	R99	S4	AFTELAK, Steve	.

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TS	06.07	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	8.0.1	R99	S4	AFTELAK, Steve	.
TR	06.08	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	8.0.0	R99	S4	SALEM, Tarek	.
TS	06.10	Full Rate Speech Transcoding	8.2.0	R99	S4	LORENZ, Dietmar	#32:8.1.0
TS	06.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels	8.0.1	R99	S4	NAVARRO, William	.
TS	06.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels	8.1.0	R99	S4	SERENO, Daniele	.
TS	06.20	Half Rate Speech Transcoding	8.0.1	R99	S4	AFTELAK, Steve	.
TS	06.21	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	8.0.1	R99	S4	AFTELAK, Steve	.
TS	06.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels	8.0.1	R99	S4	AFTELAK, Steve	.
TS	06.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	8.0.1	R99	S4	USAI, Paolino	.
TS	06.32	Voice Activity Detection (VAD)	8.0.1	R99	S4	BARRETT, Paul	.
TS	06.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	8.0.1	R99	S4	USAI, Paolino	.
TS	06.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	8.0.1	R99	S4	BARRETT, Paul	.
TS	06.51	GSM Enhanced full rate speech processing functions: General description	8.2.0	R99	S4	JÄRVINEN, Kari	#32:8.1.0 TSG#10:8.2.0
TS	06.53	ANSI-C code for the GSM Enhanced full rate speech codec	8.0.1	R99	S4	JÄRVINEN, Kari	.
TS	06.54	Test sequences for the GSM Enhanced Full Rate (EFR)	8.2.0	R99	S4	JÄRVINEN, Kari	#32:8.1.0 TSG#10:8.2.0
TR	06.55	Performance characterisation of the GSM EFR Speech Codec	8.0.0	R99	S4	SALEM, Tarek	.
TS	06.60	Enhanced full rate speech transcoding	8.0.1	R99	S4	JÄRVINEN, Kari	.
TS	06.61	Substitution and muting of lost frames for encanced full rate speech traffic channels	8.0.1	R99	S4	JÄRVINEN, Kari	.
TS	06.62	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	8.0.1	R99	S4	JÄRVINEN, Kari	.
TR	06.76	Adaptive Multi-Rate (AMR) speech codec; Study phase report	8.0.0	R99	S4	USAI, Paolino	TSG#7:2.0.0, 8.0.0
TS	06.77	Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder	8.1.1	R99	S4	USAI, Paolino	#32:8.0.0 TSG#11:8.1.0
TR	06.78	Results of the AMR noise suppression selection phase	8.0.0	R99	S4	USAI, Paolino	#32:8.0.0
TS	06.81	Discontinuous Transmission (DTX) for encanced full rate speech traffic channels	8.0.1	R99	S4	JÄRVINEN, Kari	.
TS	06.82	Voice Activity Detection (VAD) for encanced full rate speech traffic channels	8.0.1	R99	S4	JÄRVINEN, Kari	.
TR	06.85	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	8.0.0	R99	S4	USAI, Paolino	.
TS	07.01	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	8.0.0	R99	N3	WIIK, Rune Werner	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	07.02	Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities	8.0.0	R99	N3	WIIK, Rune Werner	#29: 8.0.0 (to be deleted, moved to 3GPP)

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TS	07.03	Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities	8.0.0	R99	N3	WIIK, Rune Werner	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	07.08	GSM Application Programming Interface	8.0.0	R99	T2	RODERMUND, Friedhelm	Frozen at v5
TS	08.01	General Aspects on the BSS-MSC Interface	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.02	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.04	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.06	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.08	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	8.9.0	R99	G2	ANDERSEN, Niels Peter Skov	#29: 8.0.0 #30: 8.1.0 #30b: 8.2.0 #31:8.3.0 #31b:8.4.0 #32:8.5.0 GERAN#1:8.6.0 GERAN#2:8.7.0 GERAN#3:8.8.0
TS	08.14	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.16	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.18	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	8.8.0	R99	G2	BLACK, Jyoti	#30: 8.0.0 #30b: 8.1.0 #31:8.2.0 #31b:8.3.0 GERAN#1:8.4.0 GERAN#2:8.5.0 GERAN#3:8.6.0
TS	08.20	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	8.4.1	R99	N3	RÄSÄNEN, Juha	#29: 8.0.0 #30: 8.1.0 TSG#9:8.2.0 TSG#10:8.3.0 TSG#11:8.4.0
TS	08.31	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	8.1.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.51	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.52	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.54	BSC-BTS : Layer 1 Structure of Physical Circuits	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.56	BSC-BTS Layer 2 Specification	8.0.0	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.58	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	8.6.0	R99	G2	ANDERSEN, Niels Peter Skov	#29: 8.0.0 #30: 8.1.0 #30: 8.2.0 #31:8.3.0 #31b:8.4.0 GERAN#1:8.5.0 GERAN#2:8.6.0
TS	08.60	Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR	8.1.0	R99	G2	ANDERSEN, Niels Peter Skov	#30: 8.0.1 #30b: 8.1.0
TS	08.61	Inband Control of Remote Transcoder and Rate Adaptors;(Half Rate)	8.0.1	R99	G2	ANDERSEN, Niels Peter Skov	.
TS	08.62	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	8.0.1	R99	S4	USAI, Paolino	.
TS	08.71	Location services (LCS) SMLC-BSS interface L 3	8.2.0	R99	G2	ANDERSEN, Niels Peter Skov	
TR	09.01	General Network Interworking Scenarios	8.0.0	R99	N4	VACANT,	.

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TS	09.07	General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	8.0.0	R99	N3	KLEHN, Norbert	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	09.08	Application of the Base Station System Application Part (BSSAP) on the E-Interface	8.1.0	R99	N1	JUKIC, Zdravko	#31: 8.0.0 TSG#10:8.1.0
TS	09.14	Application of ISUP Version 3 for the ISDN-PLMN (GSM) Signalling	8.0.0	R99	SPAN3	SPORTON, Simon	May00: Possibly no need for an update.
TS	09.18	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	8.0.0	R99	N1	MILLS, Duncan	#29: 8.0.0 (to be deleted, moved to 3GPP)
TS	09.31	Location Services LCS Extension (BSSAP-LE)	8.3.0	R99	G2	ANDERSEN, Niels Peter Skov	#32:8.2.0 GERAN#1:8.3.0
TR	10.43	Support of Localised Service Area (SoLSA); Work Item Status	1.11.0	R99	S1	KOKKOLA, Tommi	#25: 1.11.0 #30b: 1.11.0 2001-April:Clayton: stopped.
TS	10.56	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	8.0.0	R99	S2	GALLIGO, Michel	.
TR	10.57	Project scheduling and open issues: Mobile Station Execution Environment (MExE)	8.0.0	R99	T2	RODERMUND, Friedhelm	No R99 impact.
TR	10.59	Project scheduling and open issues for EDGE	8.0.0	R99	G1	MUELLER, Frank	May00: 1.23.0 ("final" version) #32:8.0.0 (1.23.0)
TS	10.89	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	0.0.6	R99	GP	ISAACS, Ken	
TS	11.10-1	Mobile station (MS) conformance specification; Part1: Conformance specification	8.2.0	R99	G4	SALMERON, Lidia	#29: 7.0.0 #30: 7.1.0 #31: 8.0.0 & 8.1.0 #32:closed. #32:8.2.0
TS	11.10-2	Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	8.0.0	R99	G4	SALMERON, Lidia	proposed, but nya; flagged as withdrawn at SMG#32 to make life easier
TS	11.10-3	Mobile Station (MS) Conformance Specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)	8.0.0	R99	G4	SALMERON, Lidia	skipped straight to R00.
TS	11.10-4	Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification	8.0.0	R99	G4	SALMERON, Lidia	May 00: R99 not anticipated.
TS	11.11	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	8.5.0	R99	T3	GUTHERY, Scott B.	#29: 8.0.0 #30: 8.1.0 #31:8.2.0 #32:8.3.0 TSG#9:8.4.0 TSG#11:8.5.0
TS	11.14	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	8.7.0	R99	T3	WOODSEND, Kristian	TP-11to be :withdrawn at TP-12, subsumed in 31.111; however, CR approved at TP-12, so assume not yet withdrawn!
TS	11.17	SIM test specification	8.0.0	R99	T3	BREMNER, David	May 00: R99 not anticipated.
TS	11.18	Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface	8.0.0	R99	T3	LINDHOLM, Rune	Sanders Oct 2000:.Effectively replaced by 31.101.
TS	11.21	GSM Radio Aspects Base Station System Equipment Specification	8.6.0	R99	G3	VACANT,	#28: 7.0.0 #29: 7.1.0 #30: 7.2.0 #30b: 8.0.0 #31:8.1.0 #31b:8.1.0 #32:8.3.0 GERAN#1:8.4.0 GERAN#2:8.5.0 GERAN#4:8.6.0
TS	11.26	GSM Repeater Equipment Specification	8.0.2	R99	G3	VACANT,	#31b:8.0.0 (based on 5.2.1)
TS	12.03	Security Management	8.0.0	R99	S5	ZOICAS, Adrian	.
TS	12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	8.0.0	R99	S5	ZOICAS, Adrian	.
TS	12.71	Location Services (LCS); Location services management	8.0.1	R99	S5	GARAPATY, Sonia	TSG#8:8.0.0 (2.0.1) TSG#11:S5 will no longer maintain.

Type	Number	Title	Ver at TSG#12	Rel	TSG/ WG	Editor	Comment
TS	13.21	Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive	8.1.2	R99	MSG	BUSIN, Ake	No R99 impact. But #32 reinstated. #32:8.0.0 MSG#3:8.1.0

Annex E: List of Change Requests and their status after TSG SA Meeting #12

E.1 CRs from SA WG1

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010256	21.905	008		4.2.0	Rel-4	Corrections to the vocabulary requested by RAN-4	Approved	F	4.3.0	3G Vocabulary
SP-010256	21.905	009		4.2.0	Rel-4	CR to 21.905 on Definitions in 22.101 subscription and service provider	Approved	F	4.3.0	3G Vocabulary
SP-010258	21.905	010		4.2.0	Rel-5	Addition of definition of Service Provider and Subscription. Modification of definition of Subscriber	Approved	D	5.0.0	3G Vocabulary
SP-010264	22.001	006		4.1.1	Rel-4	Removal Bearer modification without pre-modification from 22.001	Approved	F	4.2.0	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)
SP-010257	22.002	013		4.1.0	Rel-4	Corrections to erroneous implementation of CRs SP-010039 and SP-010040 to 22.002.	Approved	F	4.2.0	Circuit Bearer Services Supported by a PLMN
SP-010242	22.003	005		3.2.0	R99	Correction of applicability of Fax in R99	Approved	F	3.3.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)
SP-010243	22.003	006		3.2.0	R99	Removal of Voice Group Service	Approved	F	3.3.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)
SP-010243	22.003	007		4.1.0	Rel-4	Removal of Voice Group Service	Approved	A	4.2.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)
SP-010244	22.011	024		3.4.0	R99	Partial PLMN access restriction	Approved	F	3.5.0	Service accessibility
SP-010244	22.011	025		4.3.0	Rel-4	Partial PLMN access restriction	Approved	A	4.4.0	Service accessibility
SP-010244	22.011	026		3.4.0	R99	Periodic Network Selection Attempt improvement	Approved	F	3.5.0	Service accessibility
SP-010244	22.011	027		4.3.0	Rel-4	Periodic Network Selection Attempt improvement	Approved	A	4.4.0	Service accessibility
SP-010244	22.011	028		3.4.0	R99	Default value for background scanning timer	Approved	F	3.5.0	Service accessibility
SP-010244	22.011	029		4.3.0	Rel-4	Default value for background scanning timer	Approved	A	4.4.0	Service accessibility
SP-010261	22.038	008		5.1.0	Rel-5	Indication of Key identification	Approved	B	5.2.0	SIM application toolkit (SAT); Stage 1
SP-010249	22.078	101	1	3.7.0	R99	Clarification of PDP context QoS change notification to the CSE (CAMEL3)	Approved	F	3.8.0	CAMEL; Stage 1
SP-010251	22.078	102		5.2.0	Rel-5	Enhance ATI operation (CAMEL4) - GPRS Location	Approved	B	5.3.0	CAMEL; Stage 1
SP-010249	22.078	103	1	4.2.0	Rel-4	Clarification of PDP context QoS change notification to the CSE (CAMEL3)	Approved	A	4.3.0	CAMEL; Stage 1
SP-010250	22.078	104		3.7.0	R99	CR 22.078-104 on "Clarification of CUG requirements" (CAMEL3, R99, Category F, version 3.7.0)	Approved	F	3.8.0	CAMEL; Stage 1
SP-010250	22.078	105		4.2.0	Rel-4	CR 22.078-105 on "Clarification of CUG requirements" (CAMEL3, REL-4, Category A, version 4.1.0)	Approved	A	4.3.0	CAMEL; Stage 1
SP-010250	22.078	106		5.2.0	Rel-5	CR 22.078-106 on "Clarification of CUG requirements" (CAMEL3, REL-5, Category A, version 5.2.0)	Approved	A	5.3.0	CAMEL; Stage 1
SP-010251	22.078	107		5.2.0	Rel-5	Location information during an ongoing call (CAMEL4)	Approved	B	5.3.0	CAMEL; Stage 1
SP-010251	22.078	108		5.2.0	Rel-5	Clarification of CPH requirements (CAMEL4)	Approved	F	5.3.0	CAMEL; Stage 1
SP-010251	22.078	109		5.2.0	Rel-5	Inclusion of ODB data in ATM	Approved	B	5.3.0	CAMEL; Stage 1

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010251	22.078	110		5.2.0	Rel-5	CR 22.078-xxx on "Clarification on creating a new call" CAMEL4, REL-5, Category F, version 5.2.0)	Approved	F	5.3.0	CAMEL; Stage 1
SP-010251	22.078	111		5.2.0	Rel-5	Introduction of the new CSI for the mobility management for the GPRS subscriber	Approved	C	5.3.0	CAMEL; Stage 1
SP-010259	22.082	003		4.0.0	Rel-4	Clarification of CPHS CFU Indication	Approved	C	4.1.0	Call Forwarding (CF) Supplementary Services; Stage 1
SP-010242	22.100	030		3.6.0	R99	Request for clarification on the fax service in UMTS R99	Rejected	F	3.7.0	UMTS Phase 1
SP-010262	22.101	071		4.3.0	Rel-4	Replacement of references to 23.121 for R4 onwards	Approved	F	4.4.0	UMTS Service principles
SP-010262	22.101	072		5.2.0	Rel-5	Replacement of references to 23.121 for R4 onwards	Approved	A	5.3.0	UMTS Service principles
SP-010258	22.101	073		5.2.0	Rel-5	Subscription and Provisioning	Approved	C	5.3.0	UMTS Service principles
SP-010255	22.101	074		4.3.0	Rel-4	Addition of a Streaming paragraph	Approved	F	4.4.0	UMTS Service principles
SP-010255	22.101	075		5.2.0	Rel-5	Addition of a Streaming paragraph	Approved	A	5.3.0	UMTS Service principles
SP-010263	22.101	076		4.3.0	Rel-4	CS Multimedia fallback to speech	Approved	F	4.4.0	UMTS Service principles
SP-010263	22.101	077		5.2.0	Rel-5	CS Multimedia fallback to speech	Approved	A	5.3.0	UMTS Service principles
SP-010252	22.101	078		3.12.0	R99	Re-introduction of Service Provider Name Indication in Release 99	Approved	F	3.13.0	UMTS Service principles
SP-010253	22.101	079		4.3.0	Rel-4	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	Approved	F	4.4.0	UMTS Service principles
SP-010253	22.101	080		5.2.0	Rel-5	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	Approved	A	5.3.0	UMTS Service principles
SP-010254	22.101	081		4.3.0	Rel-4	Removal of Service Provider Name graphic format from Rel-4	Approved	F	4.4.0	UMTS Service principles
SP-010264	22.105	031		4.1.0	Rel-4	Removal of features due to deletion of the workitem on “Bearer modification without pre-notification”.	Approved	F	4.2.0	Services & Service capabilities
SP-010260	22.115	006		5.0.0	Rel-5	Introduction of online charging for prepaid services	Approved	B	5.1.0	Service Aspects Charging and billing
SP-010247	22.121	020		5.0.0	Rel-5	Changes to TS 22.121 Release 5 to update Release 5 TS	Approved	F	5.1.0	Provision of Services in UMTS - The Virtual Home Environment; Stage 1
SP-010248	22.127	009		4.1.0	Rel-4	Detailed requirements for transaction history retrieval	Approved	F	4.2.0	Service Requirement for the Open Services Access (OSA); Stage 1
SP-010248	22.127	010		4.1.0	Rel-5	CR on Decoupling the OSA API	Approved	C	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1
SP-010248	22.127	011		4.1.0	Rel-4	Terminal capabilities	Approved	F	4.2.0	Service Requirement for the Open Services Access (OSA); Stage 1
SP-010248	22.127	012		4.1.0	Rel-5	Introduction of OSA support to enable Policy Management	Approved	B	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1
SP-010248	22.127	013		4.1.0	Rel-5	De-Registration Function	Approved	B	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1
SP-010264	22.129	018		4.2.0	Rel-4	Bearer modification without pre-modification	Approved	F	4.3.0	Handover Requirements between UMTS and GSM or other Radio Systems
SP-010245	22.129	019		4.2.0	Rel-4	Inter PLMN handover	Approved	F	4.3.0	Handover Requirements between UMTS and GSM or other Radio Systems
SP-010246	22.228	002		5.1.0	Rel-5	CR 22.228 - Capability of the IM CN Subsystem to present the identity of connected-to party	Approved	C	5.2.0	IP multimedia subsystem; Stage 1
SP-010246	22.228	003		5.1.0	Rel-5	CR to 22.228 on Redirection of IP Multimedia Sessions	Approved	C	5.2.0	IP multimedia subsystem; Stage 1

E.2 CRs from SA WG2

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010330	03.60	A205	1	6.8.0	R97	Using RAU procedure for MS RAC IE update	approved	F	6.9.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	03.60	A206	1	7.6.0	R98	Using RAU procedure for MS RAC IE update	approved	A	7.7.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010371	03.71	A023	3	7.5.0	R98	Correction of Inconsistent Text	rejected	F	7.6.0	Location services (LCS); Stage 2
SP-010371	03.71	A024	3	8.1.0	R99	Correction of Inconsistent Text	rejected	A	8.2.0	Location services (LCS); Stage 2
SP-010371	03.71	A025	1	7.5.0	R98	Correct reference of GAD shape	Approved	F	7.6.0	Location services (LCS); Stage 2
SP-010371	03.71	A026	1	8.1.0	R99	Correct reference of GAD shape	Approved	A	8.2.0	Location services (LCS); Stage 2
SP-010371	03.71	A027	1	7.5.0	R98	Privacy Check procedures for call related MT-LR	Approved	F	7.6.0	Location services (LCS); Stage 2
SP-010371	03.71	A028	1	8.1.0	R99	Privacy Check procedures for call related MT-LR	Approved	A	8.2.0	Location services (LCS); Stage 2
SP-010329	23.002	037	1	5.2.0	Rel-5	HSS / HLR structuring	Approved	C	5.3.0	Network Architecture
SP-010329	23.002	051	3	5.2.0	Rel-5	Addition of GTT Specific sntities	Approved	B	5.3.0	Network Architecture
SP-010329	23.002	052	1	4.2.0	Rel-4	Addition of Radio Access Technologies	Approved	F	4.3.0	Network Architecture
SP-010329	23.002	053	1	5.2.0	Rel-5	Addition of Radio Access Technologies	Approved	A	5.3.0	Network Architecture
SP-010329	23.002	061	1	4.2.0	Rel-4	Clarification of the role of the SGWs	Approved	F	4.3.0	Network Architecture
SP-010329	23.002	062	1	5.2.0	Rel-5	Clarification of the role of the SGWs	Approved	A	5.3.0	Network Architecture
SP-010330	23.060	221	1	4.0.0	Rel-4	Specification of Relocation Cancel procedure	Approved	B	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	222	1	3.7.0	R99	Forbid usage of TFT in case of virtual dial-up access with PPP frame tunneling in GGSN	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	223	1	4.0.0	Rel-4	Forbid usage of TFT in case of virtual dial-up access with PPP frame tunneling in GGSN	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	224	1	3.7.0	R99	Data forwarding during 3G RAU in PMM CONNECTED state	postponed	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	225		4.0.0	Rel-4	Data forwarding during 3G RAU in PMM CONNECTED state	postponed	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	229	1	3.7.0	R99	Clarifications to Handling the user data during the SRNS Relocation Procedure	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	230	1	4.0.0	Rel-4	Support of PS realtime relocation in 23.060	Approved	F	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	231	1	4.0.0	Rel-4	Clarifications to Handling the user data during the SRNS Relocation Procedure	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	233		4.0.0	Rel-4	Update of Control Plane protocol architecture to align with 29.202	approved	F	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	234		3.7.0	R99	Specification of Relocation Cancel procedure	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	236		3.7.0	R99	Handling of charging characteristics for roaming users	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010330	23.060	237		4.0.0	Rel-4	Handling of charging characteristics for roaming users	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2
SP-010331	23.107	047	3	4.0.0	Rel-4	Mitigation of bandwidth consumption attacks	Approved	D	4.1.0	Quality of Service, Concept and Architecture
SP-010331	23.107	048	3	5.0.0	Rel-5	Mitigation of bandwidth consumption attacks	Approved	A	5.1.0	Quality of Service, Concept and Architecture
SP-010332	23.127	025		3.3.0	R99	Adding transport examples in addition to CORBA	Approved	F	3.4.0	Virtual Home Environment; Stage 2
SP-010332	23.127	026		4.1.0	Rel-4	Adding transport examples in addition to CORBA	Approved	A	4.2.0	Virtual Home Environment; Stage 2

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010371	23.171	018	1	3.3.0	R99	LCS location notification messages	Approved	F	3.4.0	Functional stage 2 description of location services in UMTS
SP-010333	23.221	005	1	4.0.0	Rel-4	Removal of Editor's Notes	Approved	F	4.1.0	Architectural requirements
SP-010333	23.221	006	1	5.0.0	Rel-5	Removal of Editor's Notes	Approved	A	5.1.0	Architectural requirements
SP-010333	23.221	007	1	4.0.0	Rel-4	Clarification of text on Location Area Update	Approved	F	4.1.0	Architectural requirements
SP-010333	23.221	008	1	5.0.0	Rel-5	Clarification of text on Location Area Update	Approved	A	5.1.0	Architectural requirements
SP-010333	23.221	010	1	4.0.0	Rel-4	Editorial Corrections to 23.221 section 5.2	Approved	F	4.1.0	Architectural requirements
SP-010333	23.221	011	1	5.0.0	Rel-5	Editorial Corrections to 23.221 section 5.2	Approved	A	5.1.0	Architectural requirements
SP-010333	23.221	012	1	5.0.0	Rel-5	The introduction of area concepts for GERAN R5	Approved	B	5.1.0	Architectural requirements
SP-010333	23.221	013	1	5.0.0	Rel-5	Basic principles for MS controlled Cell/Interface selection/re-selection	Approved	B	5.1.0	Architectural requirements
SP-010335	23.228	009	1	5.0.0	Rel-5	Registration of users with multiple public identifiers: avoiding useless registration messages	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	014	1	5.0.0	Rel-5	Registration flows	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	015	1	5.0.0	Rel-5	MT call procedures for unregistered subscriber	Approved	B	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	017	1	5.0.0	Rel-5	Providing local services in the IM Subsystem	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	018	1	5.0.0	Rel-5	Emergency call handling in the IMS	Approved	B	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	020	1	5.0.0	Rel-5	Registration information removal from S-CSCF	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	023	1	5.0.0	Rel-5	Changes for DTMF ToneInterworking	Approved	F	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	028	1	5.0.0	Rel-5	SLF Mechanism for all kinds of CSCF types	Approved	B	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	036	1	5.0.0	Rel-5	23.228 Additional information on the service control architecture	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	038	1	5.0.0	Rel-5	Combined Services Architecture	Approved	C	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	040	1	5.0.0	Rel-5	Security functional roles for Roles of Session Control	Approved	F	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	042		5.0.0	Rel-5	Definition of default codec in 23.228	Approved	F	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	044		5.0.0	Rel-5	Session handling in IM (Redirection)	Approved	F	5.1.0	IP multimedia subsystem; Stage 2
SP-010335	23.228	046		5.0.0	Rel-5	Subscription Updating Procedure	Approved	B	5.1.0	IP multimedia subsystem; Stage 2
SP-010371	23.271	022	2	4.1.0	Rel-4	Alignment of 23.271 with GERAN LCS stage 2, TS 43.059	Approved	F	4.2.0	Functional stage 2 description of location services
SP-010371	23.271	023	1	4.1.0	Rel-4	Completion of changes regarding UE LCS capabilities	Approved	F	4.2.0	Functional stage 2 description of location services
SP-010371	23.271	024		4.1.0	Rel-4	Applicability of LCS services in CS domain to GPRS mobile stations	Approved	F	4.2.0	Functional stage 2 description of location services
SP-010371	23.271	026	4	4.1.0	Rel-4	Re-attempt of location request when MS becomes reachable	Approved	F	4.2.0	Functional stage 2 description of location services

E.3 CRs from SA WG3

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010313	33.102	144		3.8.0	R99	Correction to periodic local authentication	approved	F	3.9.0	Security Architecture
SP-010313	33.102	145		4.0.0	Rel-4	Correction to periodic local authentication	approved	A	4.1.0	Security Architecture
SP-010314	33.102	146		3.8.0	R99	Correction to COUNT-C description	approved	F	3.9.0	Security Architecture
SP-010314	33.102	147		4.0.0	Rel-4	Correction to COUNT-C description	approved	A	4.1.0	Security Architecture
SP-010315	33.102	148		4.0.0	Rel-5	Include reference to TS 43.041 GERAN Stage 2 specification	withdrawn	B	5.0.0	Security Architecture
SP-010316	33.102	149		3.8.0	R99	Calculation and Wrap-around of START value	approved	F	3.9.0	Security Architecture
SP-010316	33.102	150		4.0.0	Rel-4	Calculation and Wrap-around of START value	approved	A	4.1.0	Security Architecture
SP-010317	33.102	151		3.8.0	R99	Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted	approved	F	3.9.0	Security Architecture
SP-010317	33.102	152		4.0.0	Rel-4	Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted	approved	A	4.1.0	Security Architecture
SP-010319	33.102	153		3.8.0	R99	THRESHOLD Check at RRC connection establishment	approved	F	3.9.0	Security Architecture
SP-010319	33.102	154		4.0.0	Rel-4	THRESHOLD Check at RRC connection establishment	approved	A	4.1.0	Security Architecture
SP-010320	33.103	014		3.5.0	R99	The multiplicity of Data integrity symbols	approved	F	3.6.0	Security Integration Guidelines
SP-010320	33.103	015		4.0.0	Rel-4	The multiplicity of Data integrity symbols	approved	A	4.1.0	Security Integration Guidelines
SP-010321	33.105	019		3.7.0	R99	Deletion of the maximum size of a RRC message	approved	F	3.8.0	Cryptographic Algorithm requirements
SP-010321	33.105	020		4.0.0	Rel-4	Deletion of the maximum size of a RRC message	approved	A	4.1.0	Cryptographic Algorithm requirements
SP-010374	33.107	004	1	4.0.0	Rel-5	Update of 33.107 to include Release 5 requirements	approved	B	5.0.0	Lawful interception architecture and functions

E.4 CRs from SA WG4

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010303	06.10	A010		4.2.1	2	Correction of Fig. 3.2	approved	F	4.3.0	Full Rate Speech Transcoding
SP-010303	06.10	A011		5.2.1	R96	Correction of Fig. 3.2	approved	A	5.3.0	Full Rate Speech Transcoding
SP-010303	06.10	A012		6.1.1	R97	Correction of Fig. 3.2	approved	A	6.2.0	Full Rate Speech Transcoding
SP-010303	06.10	A013		7.1.0	R98	Correction of Fig. 3.2	approved	A	7.2.0	Full Rate Speech Transcoding
SP-010303	06.10	A014		8.1.1	R99	Correction of Fig. 3.2	approved	A	8.2.0	Full Rate Speech Transcoding
SP-010304	06.12	A001		4.0.4	2	Corrections of the formula for averaging Xmax	approved	F	4.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels
SP-010304	06.12	A002		5.0.1	R96	Corrections of the formula for averaging Xmax	approved	A	5.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels
SP-010304	06.12	A003		6.0.1	R97	Corrections of the formula for averaging Xmax	approved	A	6.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels
SP-010304	06.12	A004		7.0.1	R98	Corrections of the formula for averaging Xmax	approved	A	7.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels
SP-010304	06.12	A005		8.0.1	R99	Corrections of the formula for averaging Xmax	approved	A	8.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels
SP-010305	26.101	005	2	3.1.0	R99	Correction to SID Frame Mapping	approved	F	3.2.0	AMR speech Codec; Frame Structure
SP-010305	26.101	006		4.0.0	Rel-4	Correction to SID Frame Mapping	approved	A	4.1.0	AMR speech Codec; Frame Structure
SP-010306	26.104	003	1	3.1.0	R99	Limiting predicted codebook gain computing in encoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	004	1	4.0.0	Rel-4	Limiting predicted codebook gain computing in encoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	005	1	3.1.0	R99	Correction of decoder operation in error concealment of lost frames	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	006	1	4.0.0	Rel-4	Correction of decoder operation in error concealment of lost frames	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	007	1	3.1.0	R99	Correction of mode state bug in AMR decoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	008	1	4.0.0	Rel-4	Correction of mode state bug in AMR decoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	009			R99	Correction to make encoder and decoder memories independent	approved			AMR speech Codec; Floating point C-Code
SP-010306	26.104	010			Rel-4	Correction to make encoder and decoder memories independent	approved			AMR speech Codec; Floating point C-Code
SP-010306	26.104	011	1	3.1.0	R99	Correction of decoder Reset	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	012	1	4.0.0	Rel-4	Correction of decoder Reset	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	013	1	3.1.0	R99	Correction of comfort noise parameter interpolation bug of AMR decoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	014	1	4.0.0	Rel-4	Correction of comfort noise parameter interpolation bug of AMR decoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	015	1	3.1.0	R99	Correction of the TX_TYPE and RX_TYPE identifiers	approved	F	3.2.0	AMR speech Codec; Floating point C-Code
SP-010306	26.104	016	1	4.0.0	Rel-4	Correction of the TX_TYPE and RX_TYPE identifiers	approved	A	4.1.0	AMR speech Codec; Floating point C-Code
SP-010307	26.173	001	1	5.0.0	Rel5	Unnecessary printing in Az_isp-function	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010307	26.173	002	1	5.0.0	Rel5	Overflow in isp_az.c	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010307	26.173	003	1	5.0.0	Rel5	Error in the ISF extrapolation in 6.60 kbit/s mode	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010307	26.173	004	1	5.0.0	Rel5	14-bit masking to decoder	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010307	26.173	005	1	5.0.0	Rel5	Correction of the homing function	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010307	26.173	006	1	5.0.0	Rel5	Fixed codebook initialisation	approved	F	5.1.0	AMR speech codec, wideband; C-source code
SP-010308	26.174	001		5.0.0	Rel5	Update of AMR-WB test sequences	approved	F	5.1.0	AMR speech codec, wideband; Test sequences

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010309	26.235	001		4.0.0	Rel-4	Update of AMR-NB and AMR-WB RTP payload	approved	F	4.1.0	Packet switched conversational multimedia applications; Default codecs
SP-010378	26.235	002		4.0.0	Rel-5	Applicability of TS 26.235 to GERAN (FFS) (REL-5)	approved	F	5.0.0	Packet switched conversational multimedia applications; Default codecs
SP-010310	28.062	001	1	4.0.0	Rel-4	Reference to a deleted TFO message	approved	F	4.1.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3
SP-010303	46.010	001		4.0.0	Rel-4	Correction of Fig. 3.2	approved	A	4.1.0	Full-rate speech transcoding
SP-010304	46.012	001		4.0.0	Rel-4	Corrections of the formula for averaging Xmax	approved	A	4.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels

E.5 CRs from SA WG5

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010235	32.015	026		3.5.0	R99	Correct the Node Address IE	approved	F	3.6.0	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain
SP-010235	32.015	027		3.5.0	R99	Correct GGSN address in G-CDR and S-CDR	approved	F	3.6.0	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain
SP-010231	32.101	008		4.0.1	Rel-4	Scope update for Rel4	approved	F	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	009		4.0.1	Rel-4	Updates and Corrections for Rel4	approved	F	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	010		4.0.1	Rel-4	Alignment with TMF GB910 and associated Editorial improvements	approved	F	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	011		4.0.1	Rel-4	Update and re-organisation of Clause 8 (Functional Architecture)	approved	F	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	012		4.0.1	Rel-4	Introduce Subscription Management	approved	B	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	013		4.0.1	Rel-4	Introduction of QoS Management Annex	approved	B	4.1.0	3G Telecom Management principles and high level requirements
SP-010231	32.101	014		4.0.1	Rel-4	Update the definition of IRP terminology	approved	F	4.1.0	3G Telecom Management principles and high level requirements
SP-010232	32.102	008		4.0.0	Rel-4	Correction of ITU-T TMN concerns	approved	D	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	009		4.0.0	Rel-4	Alignment with 3GPP drafting rules regarding headings	approved	D	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	010		4.0.0	Rel-4	Update of TM architectural aspects	approved	F	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	011		4.0.0	Rel-4	General clarifications and enhancements	approved	F	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	012		4.0.0	Rel-4	Alignment with 3GPP drafting rules regarding verbal forms for the expression of provisions	approved	F	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	013		4.0.0	Rel-4	Update and clarify compliance condition for a UMTS entity	approved	F	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	014		4.0.0	Rel-4	Delete OSA definition	approved	D	4.1.0	3G Telecom Management Architecture
SP-010232	32.102	015		4.0.0	Rel-4	Enhancements of the IRP Concept	approved	F	4.1.0	3G Telecom Management Architecture
SP-010237	32.104	009		4.0.0	Rel-4	Add new Features and Split into a multi-part TS	withdrawn	B		3G Performance Management
SP-010284	32.106-5	003		3.1.0	R99	Correction of R99 filter definition which is inconsistent with the CORBA SS	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1
SP-010284	32.106-5	004		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1
SP-010284	32.106-6	008		3.1.0	R99	Reposition “#pragma prefix” directive	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1
SP-010284	32.106-6	009		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1
SP-010284	32.106-7	003		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010284	32.106-8	001		3.1.0	R99	Correct errors in DN name convention for Managed Objects	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects
SP-010282	32.111-1	003		3.2.0	Rel-4	New features for Fault Management	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements
SP-010282	32.111-2	008		3.3.0	Rel-4	Alarm IRP: IS Rel4 - Addition of feature	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service
SP-010239	32.111-3	008		3.4.0	R99	Probable Cause “Intrusion Detection” is missing	approved	F	3.5.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1
SP-010282	32.111-3	009		3.5.0	Rel-4	Alarm IRP: CORBA SS Rel4 - Addition of feature	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1
SP-010282	32.111-4	001		3.1.1	Rel-4	Alarm IRP: CMIP SS Rel4 - Addition of feature	withdrawn	B	4.0.0	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set

E.6 CRs from TSG SA level

TSG SA Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title
SP-010276	01.01	002		8.1.0	R99	Correction to list of specs	revised	F		GSM Release 1999 Specifications
SP-010382	01.01	002	1	8.1.0	R99	Correction to list of specs	approved	F		GSM Release 1999 Specifications
SP-010273	21.101	005		3.3.0	R99	Correction to list of specs	revised	F		3rd Generation mobile system Release 1999 Specifications
SP-010379	21.101	005	1	3.3.0	R99	Correction to list of specs	approved	F		3rd Generation mobile system Release 1999 Specifications
SP-010274	21.102	001		4.0.0	Rel-4	Correction to list of specs	revised	F		3rd Generation mobile system Release 4 specifications
SP-010380	21.102	001	1	4.0.0	Rel-4	Correction to list of specs	revised	F		3rd Generation mobile system Release 4 specifications
SP-010396	21.102	001	2	4.0.0	Rel-4	Correction to list of specs	approved	F		3rd Generation mobile system Release 4 specifications
SP-010277	41.102	001		4.0.0	Rel-4	Correction to list of specs	revised	F		GSM Release 4 specifications
SP-010383	41.102	001	1	4.0.0	Rel-4	Correction to list of specs	approved	F		GSM Release 4 specifications

Annex F: Status of all 3GPP CRs after TSG SA #12 Meeting

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-010286	03.03	A052	1	7.5.0	R98	Remove reference to TS 03.22	approved	F	7.6.0	Numbering, Addressing and Identification	N4
NP-010309	03.78	A161	1	6.8.0	R97	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	approved	F	6.9.0	CAMEL Phase 2; Stage 2	N2
NP-010309	03.78	A162	1	7.5.0	R98	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	approved	A	7.6.0	CAMEL Phase 2; Stage 2	N2
NP-010275	04.08	A1071	1	7.11.0	R98	Length of User-user IE	Approved	F	7.13.0	Mobile radio interface layer 3 specification	N1
NP-010355	04.08	A1093		6.14.0	R97	Missing SM cause 40 in table 10.6.6	Approved	F	6.15.0	Mobile radio interface layer 3 specification	N1
NP-010274	04.08	A1093		6.14.0	R97	Missing SM cause 40 in table 10.6.6	revised	F		Mobile radio interface layer 3 specification	N1
NP-010355	04.08	A1095		7.11.0	R98	Missing SM cause 40 in table 10.6.6	Approved	A	7.13.0	Mobile radio interface layer 3 specification	N1
NP-010274	04.08	A1095		7.11.0	R98	Missing SM cause 40 in table 10.6.6	revised	A		Mobile radio interface layer 3 specification	N1
NP-010272	04.08	A1097	2	7.11.0	R98	Modification to MS's MM states to enable LCS signalling on RR layer	Approved	F	7.13.0	Mobile radio interface layer 3 specification	N1
NP-010355	04.08	A1099	2	6.14.0	R97	Clarification of Network Initiated GPRS Detach Procedure	Approved	F	6.15.0	Mobile radio interface layer 3 specification	N1
NP-010274	04.08	A1099	2	6.14.0	R97	Clarification of Network Initiated GPRS Detach Procedure	revised	F		Mobile radio interface layer 3 specification	N1
NP-010274	04.08	A1101	2	7.11.0	R98	Clarification of Network Initiated GPRS Detach Procedure	revised	A		Mobile radio interface layer 3 specification	N1
NP-010355	04.08	A1101	2	7.11.0	R98	Clarification of Network Initiated GPRS Detach Procedure	Approved	A	7.13.0	Mobile radio interface layer 3 specification	N1
NP-010290	09.02	A319		7.8.0	R98	Add support in MAP for Ellipsoid Point	approved	F	7.9.0	Mobile Application Part (MAP) Specification	N4
NP-010286	23.003	027	1	3.8.0	R99	Remove reference to TS 23.022	approved	A	3.9.0	Numbering, Addressing and Identification	N4
NP-010286	23.003	028	1	4.0.0	Rel-4	Remove reference to TS 23.022	approved	A	4.1.0	Numbering, Addressing and Identification	N4
NP-010293	23.003	029	1	4.0.0	Rel-5	New Subsystem Number for the Position Calculation Application Part on the Iupc interface	approved	F	5.0.0	Numbering, Addressing and Identification	N4
NP-010298	23.008	034	3	3.5.0	R99	Correction of references	approved	F	3.6.0	Organisation of subscriber data	N4
NP-010298	23.008	035	3	4.0.0	Rel-4	Correction of references	approved	A	4.1.0	Organisation of subscriber data	N4
NP-010283	23.008	036		3.5.0	R99	Supported CAMEL Phases in VLR is temporary	approved	F	3.6.0	Organisation of subscriber data	N4
NP-010283	23.008	037		4.0.0	Rel-4	Supported CAMEL Phases in VLR is temporary	approved	A	4.1.0	Organisation of subscriber data	N4
NP-010266	23.009	028	1	3.6.0	R99	Priority selection criteria of calls in a multicall	rejected	F		Handover procedures	N1
NP-010266	23.009	029	1	4.0.0	Rel-4	Priority selection criteria of calls in a multicall	rejected	A		Handover procedures	N1
NP-010270	23.009	034	3	3.6.0	R99	Indication of Intra MSC handover from 3G_MSC-B to MSC-A/3G_MSC-A	approved	F	3.7.0	Handover procedures	N1
NP-010270	23.009	035	3	4.0.0	Rel-4	Indication of Intra MSC handover from 3G_MSC-B to MSC-A/3G_MSC-A	approved	A	4.1.0	Handover procedures	N1
NP-010266	23.009	038		3.6.0	R99	Priority selection criteria of calls in a multicall	rejected	F		Handover procedures	N1
NP-010266	23.009	039		4.0.0	Rel-4	Priority selection criteria of calls in a multicall	rejected	A		Handover procedures	N1
NP-010300	23.018	072		4.2.0	Rel-5	Handling of MultiCall in MPTY procedure	approved	C	5.0.0	Basic Call Handling - Technical realization	N4
NP-010283	23.018	073		3.7.0	R99	Initialisation of variable to monitor activation of CSI's	approved	F	3.8.0	Basic Call Handling - Technical realization	N4
NP-010283	23.018	074		4.2.0	Rel-4	Initialisation of variable to monitor activation of CSI's	approved	A	4.3.0	Basic Call Handling - Technical realization	N4
NP-010299	23.067	009	1	3.2.0	R99	Remove the statement when MS receives no priority granted	approved	F	3.3.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4
NP-010299	23.067	010	1	4.0.0	Rel-4	Remove the statement when MS receives no priority granted	approved	A	4.1.0	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-010310	23.078	286		3.8.0	R99	GGSN address in SGSN to SCP interface	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	287		4.0.0	Rel-4	GGSN address in SGSN to SCP interface	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010309	23.078	288	1	3.8.0	R99	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010309	23.078	289	1	4.0.0	Rel-4	Mapping of Call Forwarding parameters from CAP-Connect to ISUP-IAM and CAP-InitialDP	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	290		3.8.0	R99	Correction of error implementing CR 23.078-181r2	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	291		4.0.0	Rel-4	Correction of error implementing CR 23.078-181r2	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	292	1	3.8.0	R99	Handling of second SIFOC	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	293	1	4.0.0	Rel-4	Handling of second SIFOC	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	294	1	3.8.0	R99	Correction to GPRS SDL: no state transition for QoS-induced ACR-GPRS	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	295	1	3.8.0	R99	Correction on the call-Diversion-Treatment-Indicator at the GMSC	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010315	23.078	296	3	3.8.0	R99	Introduction of Reference Number for MO-SMS	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	297		4.0.0	Rel-4	Correction to GPRS SDL: no state transition for QoS-induced ACR-GPRS	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010316	23.078	298	1	3.8.0	R99	Inclusion of warning note for the reporting of total duration or volume for GPRS	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	299		4.0.0	Rel-4	Correction on the call-Diversion-Treatment-Indicator at the GMSC	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010315	23.078	300		4.0.0	Rel-4	Introduction of Reference Number for MO-SMS	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010310	23.078	301		3.8.0	R99	CAMEL Capability Handling in GPRS-CSI	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
NP-010310	23.078	302		4.0.0	Rel-4	CAMEL Capability Handling in GPRS-CSI	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010316	23.078	303		4.0.0	Rel-4	Inclusion of warning note for the reporting of total duration or volume for GPRS	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010314	23.078	304	1	3.8.0	R99	Indication of gsmSCF Address in Continue GPRS and Connect GPRS IFs	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010314	23.078	305		4.0.0	Rel-4	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010320	23.078	306		3.8.0	R99	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	revised	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010354	23.078	306	1	3.8.0	R99	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010320	23.078	307		4.0.0	Rel-4	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	revised	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010354	23.078	307	1	4.0.0	Rel-4	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010246	23.078	308		3.8.0	R99	Correction to PDP Context DP description table (table 6.2)	approved	F	3.9.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010246	23.078	309		4.0.0	Rel-4	Correction to PDP Context DP description table (table 6.2)	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
NP-010298	23.082	009a		3.5.0	R99	Interworking cases for Long Forwarded-to Numbers	approved	F	3.6.0	Call Forwarding (CF) Supplementary Services; Stage 2	N4
NP-010298	23.083	010		4.1.0	Rel-4	Interworking cases for Long Forwarded-to Numbers	approved	A	4.2.0	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	N4
NP-010300	23.084	004	1	4.0.0	Rel-5	Handling of MultiCall in MPTY procedure	approved	C	5.0.0	MultiParty (MPTY) Supplementary Service; Stage 2	N4
NP-010299	23.116	001	3	3.0.0	R99	Essential drawbacks on services due to introduction of Super-Charger function	approved	F	3.1.0	Super-Charger technical realization; Stage 2	N4
NP-010299	23.116	002	3	4.0.0	Rel-4	Essential drawbacks on services due to introduction of Super-Charger function	approved	A	4.1.0	Super-Charger technical realization; Stage 2	N4
NP-010352	23.122	023	1	3.6.0	R99	Stored list of equivalent PLMNs and error/abnormal cases	Approved	F	3.7.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010277	23.122	023	1	3.6.0	R99	Stored list of equivalent PLMNs and error/abnormal cases	revised	F		Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010352	23.122	024	1	4.0.0	Rel-4	Stored list of equivalent PLMNs and error/abnormal cases	Approved	A	4.1.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010277	23.122	024	1	4.0.0	Rel-4	Stored list of equivalent PLMNs and error/abnormal cases	revised	A		Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1

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NP-010276	23.122	026	1	3.6.0	R99	Corrections and clarifications to PLMN Selection	Approved	F	3.7.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010276	23.122	027	1	4.0.0	Rel-4	Corrections and calrifications to PLMN selection	Approved	A	4.1.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010275	23.122	029	3	3.6.0	R99	Partial Roaming - restriction by location area	Approved	F	3.7.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010275	23.122	030	3	4.0.0	Rel-4	Partial Roaming - restriction by location area	Approved	A	4.1.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010276	23.122	031		3.6.0	R99	Removal of 'Requirement of priority on High Quality Signal cell concerning Acceptable cell (for limited service as emergency call)' from 23.122	Approved	F	3.7.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010276	23.122	032		4.0.0	Rel-4	Removal of 'Requirement of priority on High Quality Signal cell concerning Acceptable cell (for limited service as emergency call)' from 23.122	Approved	A	4.1.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010276	23.122	033		3.6.0	R99	Alignment with stage 1 specification on PLMN background search	Approved	F	3.7.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010276	23.122	034		4.0.0	Rel-4	Alignment with stage 1 specification on PLMN background search	Approved	A	4.1.0	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1
NP-010284	23.153	024	1	4.1.0	Rel-4	Role of MSC server in FP UP version negotiation for TrFO	approved	F	4.2.0	Out of Band Transcoder Control; Stage 2	N4
NP-010297	23.153	025		4.1.0	Rel-4	Default Codec For UMTS & GSM dual systems	approved	F	4.2.0	Out of Band Transcoder Control; Stage 2	N4
NP-010284	23.205	002	1	4.0.0	Rel-4	Voice Processing Function Alignment/Clean Up for Call Handover and Relocation	approved	F	4.1.0	Bearer-independent circuit-switched core network; Stage 2	N4
NP-010284	23.205	004	1	4.0.0	Rel-4	Corrections to Call Clearing	approved	F	4.1.0	Bearer-independent circuit-switched core network; Stage 2	N4
NP-010284	23.205	006	1	4.0.0	Rel-4	Alignment of procedure names to TS 29.232 and editorial changes	approved	F	4.1.0	Bearer-independent circuit-switched core network; Stage 2	N4
NP-010255	23.910	029		3.4.0	R99	Connection models for CSD and editorial changes.	approved	F	3.5.0	Circuit switched data bearer services	N3
NP-010255	23.910	030		4.2.0	Rel-4	Connection models for CSD and editorial changes.	approved	A	4.3.0	Circuit switched data bearer services	N3
NP-010275	24.008	332	2	3.7.0	R99	Length of User-user IE	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	333	2	4.2.0	Rel-4	Length of User-user IE	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	393		3.7.0	R99	Missing SM cause 40 in table 10.6.6	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010355	24.008	393		3.7.0	R99	Missing SM cause 40 in table 10.6.6	Approved	A	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010355	24.008	394		4.2.0	Rel-4	Missing SM cause 40 in table 10.6.6	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	394		4.2.0	Rel-4	Missing SM cause 40 in table 10.6.6	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1

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NP-010272	24.008	395	3	3.7.0	R99	Modification to MS's MM states to enable LCS	Approved	A	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010272	24.008	396	3	4.2.0	Rel-4	Modification to MS's MM states to enable LCS	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	397	1	3.7.0	R99	Clarification to REQUEST PDP CONTEXT ACTIVATION	revised	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010375	24.008	397	2	3.7.0	R99	Clarification to REQUEST PDP CONTEXT ACTIVATION	revised	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	398	1	4.2.0	Rel-4	Clarification to REQUEST PDP CONTEXT ACTIVATION	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010375	24.008	398	2	4.2.0	Rel-4	Clarification to REQUEST PDP CONTEXT ACTIVATION	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010277	24.008	399		3.7.0	R99	Stored list of equivalent PLMNs and error/abnormal cases	revised	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010352	24.008	399		3.7.0	R99	Stored list of equivalent PLMNs and error/abnormal cases	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010277	24.008	400		4.2.0	Rel-4	Stored list of equivalent PLMNs and error/abnormal cases	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010352	24.008	400		4.2.0	Rel-4	Stored list of equivalent PLMNs and error/abnormal cases	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010277	24.008	402	2	3.7.0	R99	Classmark 1,2 and 3 corrections	revised	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010351	24.008	402	4	3.7.0	R99	Classmark 1,2 and 3 corrections	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010277	24.008	403	2	4.2.0	Rel-4	Classmark 1,2 and 3 corrections	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010351	24.008	403	4	4.2.0	Rel-4	Classmark 1,2 and 3 corrections	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	405	2	3.7.0	R99	Clarification of Network Initiated GPRS Detach Procedure	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010355	24.008	405	2	3.7.0	R99	Clarification of Network Initiated GPRS Detach Procedure	Approved	A	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1

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NP-010355	24.008	411	2	4.2.0	Rel-4	Clarification of Network Initiated GPRS Detach Procedure	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010274	24.008	411	2	4.2.0	Rel-4	Clarification of Network Initiated GPRS Detach Procedure	revised	A		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	415	3	3.7.0	R99	Partial Roaming - restriction by location area	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	416	2	4.2.0	Rel-4	Partial Roaming - restriction by location area	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	417	2	3.7.0	R99	The priority in the CALL PROCEEDING message for eMLPP supporting network	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	418	2	4.2.0	Rel-4	The priority in the CALL PROCEEDING message for eMLPP supporting network	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010271	24.008	419	1	4.2.0	Rel-4	Clean up related to V.23, X.75, X.25 and X.32	Approved	F	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	420	1	3.7.0	R99	Handling of MM reject causes 2, 3 and 6 by mobile stations	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010275	24.008	421	1	4.2.0	Rel-4	Handling of MM reject causes 2, 3 and 6 by mobile stations	Approved	A	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010273	24.008	422		4.2.0	Rel-4	Extended uplink TBF	Approved	B	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010267	24.008	423	1	4.2.0	Rel-4	Correct coding errors in the MS Radio Access Capability IE	Approved	F	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010267	24.008	425		3.7.0	R99	Correct coding errors in the MS Radio Access Capability IE	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010268	24.008	426	1	4.2.0	Rel-5	Introduction of GTT (CTM) support	approved	B	5.0.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010245	24.008	427		3.7.0	R99	Alignment of 24.008 authentication procedures with 33.102	Withdrawn	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010343	24.008	427	1	3.7.0	R99	Alignment of 24.008 authentication procedures with 33.102	Approved	F	3.8.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010245	24.008	428		4.2.0	Rel-4	Alignment of 24.008 authentication procedures with 33.102	Withdrawn	F		Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1

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NP-010343	24.008	428	1	4.2.0	Rel-4	Alignment of 24.008 authentication procedures with 33.102	Approved	F	4.3.0	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
NP-010291	24.030	004		3.1.0	R99	Handle new parameters in LCS-MOLR	approved	F	3.2.0	Location Services LCS Stage 3 SS (MO-LR)	N4
NP-010291	24.030	005		4.0.0	Rel-4	Handle new parameters in LCS-MOLR	approved	A	4.1.0	Location Services LCS Stage 3 SS (MO-LR)	N4
NP-010299	24.067	004		3.1.0	R99	Remove the statement when MS receives no priority granted	approved	F	3.2.0	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4
NP-010299	24.067	005		4.0.0	Rel-4	Remove the statement when MS receives no priority granted	approved	A	4.1.0	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4
NP-010291	24.080	007		3.4.1	R99	Add support in DTAP for all shapes defined in 23.032	approved	F	3.5.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010291	24.080	008		4.0.0	Rel-4	Add support in DTAP for all shapes defined in 23.032	approved	A	4.1.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010347	24.080	009		4.0.0	Rel-4	OTDOA location method to be added	approved	F	4.1.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010292	24.080	009		4.0.0	Rel-4	OTDOA location method to be added	revised	F		Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010296	24.080	010	1	3.4.1	R99	Addition of the description for Multicall missing from 24.080	approved	F	3.5.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010296	24.080	011	1	4.0.0	Rel-4	Addition of the description for Multicall missing from 24.080	approved	A	4.1.0	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
NP-010255	27.001	059		3.8.0	R99	Corrections of PLMN BC attributes	approved	F	3.9.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-010255	27.001	060		4.3.0	Rel-4	Corrections of PLMN BC attributes	approved	A	4.4.0	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
NP-010348	29.002	168	5	4.3.0	Rel-4	Security Header modification	approved	C	4.4.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	225	3	3.8.0	R99	Addition of selected UMTS algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010345	29.002	225	3	3.8.0	R99	Addition of selected UMTS algorithm indication to the handover procedures	rejected	F		Mobile Application Part (MAP)	N4
NP-010346	29.002	225	3	3.8.0	R99	Addition of selected UMTS algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010289	29.002	226	4	3.8.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010346	29.002	226	4	3.8.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010345	29.002	226	4	3.8.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	rejected	F		Mobile Application Part (MAP)	N4
NP-010358	29.002	226	5	3.8.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010346	29.002	239	3	4.3.0	Rel-4	Addition of selected UMTS algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010289	29.002	239	3	4.3.0	Rel-4	Addition of selected UMTS algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010359	29.002	239	4	4.3.0	Rel-4	Addition of selected UMTS algorithm indication to the handover procedures		A	4.4.0	Mobile Application Part (MAP)	N4

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NP-010346	29.002	241	3	4.3.0	Rel-4	Addition of allowed GSM algorithms indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010289	29.002	241	3	4.3.0	Rel-4	Addition of allowed GSM algorithms indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010358	29.002	241	4	4.3.0	Rel-4	Addition of allowed GSM algorithms indication to the handover procedures	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	242	3	3.8.0	R99	Addition of allowed UMTS algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010346	29.002	242	3	3.8.0	R99	Addition of allowed UMTS algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010358	29.002	242	4	3.8.0	R99	Addition of allowed UMTS algorithm indication to the handover procedures	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010346	29.002	243	3	3.8.0	R99	Addition of selected GSM algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010289	29.002	243	3	3.8.0	R99	Addition of selected GSM algorithm indication to the handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010359	29.002	243	4	3.8.0	R99	Addition of selected GSM algorithm indication to the handover procedures		F	3.9.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	244	3	4.3.0	Rel-4	Addition of allowed UMTS algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010346	29.002	244	3	4.3.0	Rel-4	Addition of allowed UMTS algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010358	29.002	244	4	4.3.0	Rel-4	Addition of allowed UMTS algorithm indication to the handover procedures	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	245	3	4.3.0	Rel-4	Addition of selected GSM algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010346	29.002	245	3	4.3.0	Rel-4	Addition of selected GSM algorithm indication to the handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010359	29.002	245	4	4.3.0	Rel-4	Addition of selected GSM algorithm indication to the handover procedures		A	4.4.0	Mobile Application Part (MAP)	N4
NP-010296	29.002	253	2	3.8.0	R99	Addition of radio resource list to the handover procedures	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010296	29.002	254	2	4.3.0	Rel-4	Addition of radio resource list to the handover procedures	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	255	2	3.8.0	R99	Addition of GSM channel type and GSM chosen channel indications to handover procedures	revised	F		Mobile Application Part (MAP)	N4
NP-010247	29.002	255	3	3.8.0	R99	Addition of GSM channel type and GSM chosen channel indications to handover procedures	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010359	29.002	255	4	3.8.0	R99	Addition of selected UMTS algorithm indication to the handover procedures		F	3.9.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	256	2	4.3.0	Rel-4	Addition of GSM channel type and GSM chosen channel indications to handover procedures	revised	A		Mobile Application Part (MAP)	N4
NP-010247	29.002	256	3	4.3.0	Rel-4	Addition of GSM channel type and GSM chosen channel indications to handover procedures	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010291	29.002	263	3	3.8.0	R99	Add support in MAP for all shapes defined in 23.032	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010291	29.002	264	3	4.3.0	Rel-4	Add support in MAP for all shapes defined in 23.032	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010290	29.002	265		3.8.0	R99	Add support in MAP for Ellipsoid Point	approved	A	3.9.0	Mobile Application Part (MAP)	N4
NP-010290	29.002	266		4.3.0	Rel-4	Add support in MAP for Ellipsoid Point	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010295	29.002	267	3	4.3.0	Rel-4	Additional Parameters in Authentication Failure Report	approved	C	4.4.0	Mobile Application Part (MAP)	N4

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NP-010292	29.002	268	3	4.3.0	Rel-4	MS presence notification procedure for LCS	revised	B		Mobile Application Part (MAP)	N4
NP-010347	29.002	268	3	4.3.0	Rel-4	MS presence notification procedure for LCS	approved	F	4.4.0	Mobile Application Part (MAP)	N4
NP-010346	29.002	269		3.8.0	R99	Correction to description of RNCId parameter	revised	F		Mobile Application Part (MAP)	N4
NP-010289	29.002	269		3.8.0	R99	Correction to description of RNCId parameter	revised	F		Mobile Application Part (MAP)	N4
NP-010358	29.002	269	1	3.8.0	R99	Correction to description of RNCId parameter	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	270		4.3.0	Rel-4	Correction to description of RNCId parameter	revised	A		Mobile Application Part (MAP)	N4
NP-010346	29.002	270		4.3.0	Rel-4	Correction to description of RNCId parameter	revised	A		Mobile Application Part (MAP)	N4
NP-010358	29.002	270	1	4.3.0	Rel-4	Correction to description of RNCId parameter	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010289	29.002	271		3.8.0	R99	Correction to Encryption Information and Integrity Protection Information parameters	revised	F		Mobile Application Part (MAP)	N4
NP-010346	29.002	271		3.8.0	R99	Correction to Encryption Information and Integrity Protection Information parameters	revised	F		Mobile Application Part (MAP)	N4
NP-010358	29.002	271	1	3.8.0	R99	Correction to Encryption Information and Integrity Protection Information parameters	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010346	29.002	272		4.3.0	Rel-4	Correction to Encryption Information and Integrity Protection Information parameters	revised	A		Mobile Application Part (MAP)	N4
NP-010289	29.002	272		4.3.0	Rel-4	Correction to Encryption Information and Integrity Protection Information parameters	revised	A		Mobile Application Part (MAP)	N4
NP-010358	29.002	272	1	4.3.0	Rel-4	Correction to Encryption Information and Integrity Protection Information parameters	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010299	29.002	278	3	3.8.0	R99	Essential drawbacks on services due to introduction of Super-Charger function	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010299	29.002	279	3	4.3.0	Rel-4	Essential drawbacks on services due to introduction of Super-Charger function	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010296	29.002	282	1	3.8.0	R99	Introduction of selected Rab-id to the Process Access Signalling operation	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010296	29.002	283	1	4.3.0	Rel-4	Introduction of selected Rab-id to the Process Access Signalling operation	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010294	29.002	284		3.8.0	R99	Mistake in the definition of AFR Application Context	approved	F	3.9.0	Mobile Application Part (MAP)	N4
NP-010294	29.002	285		4.3.0	Rel-4	Mistake in the definition of AFR Application Context	approved	A	4.4.0	Mobile Application Part (MAP)	N4
NP-010259	29.002	287		4.3.0.	Rel-4	Shift MAPsec to Rel-5	approved	C	4.4.0	Mobile Application Part (MAP)	N4
NP-010348	29.002	289	2	4.3.0	Rel-4	Component level granularity of protection	approved	F	4.4.0	Mobile Application Part (MAP)	N4
NP-010288	29.010	019		3.5.0	R99	Addition of selected UMTS algorithm indication to the handover procedures	revised	F		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)	N4
NP-010357	29.010	019	1	3.5.0	R99	Addition of selected UMTS algorithm indication to the handover procedures	approved	F	3.6.0	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)	N4

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NP-010288	29.010	020		4.0.0	Rel-4	Addition of selected UMTS algorithm indication to the handover procedures	revised	A		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)	N4
NP-010357	29.010	020	1	4.0.0	Rel-4	Addition of selected UMTS algorithm indication to the handover procedures	approved	A	4.1.0	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)	N4
NP-010288	29.010	021		3.5.0	R99	Addition of selected GSM algorithm indication to the handover procedures	revised	F		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)	N4
NP-010357	29.010	021	1	3.5.0	R99	Addition of selected GSM algorithm indication to the handover procedures	approved	F	3.6.0	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)	N4
NP-010288	29.010	022		4.0.0	Rel-4	Addition of selected GSM algorithm indication to the handover procedures	revised	A		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)	N4
NP-010357	29.010	022	1	4.0.0	Rel-4	Addition of selected GSM algorithm indication to the handover procedures	approved	A	4.1.0	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)	N4
NP-010288	29.010	023		3.5.0	R99	Addition of allowed UMTS algorithms indication to the handover procedures	revised	F		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)	N4
NP-010356	29.010	023	1	3.5.0	R99	Addition of allowed UMTS algorithms indication to the handover procedures	approved	F	3.6.0	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)	N4

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NP-010288	29.010	024		4.0.0	Rel-4	Addition of allowed UMTS algorithms indication to the handover procedures	revised	A		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)	N4
NP-010356	29.010	024	1	4.0.0	Rel-4	Addition of allowed UMTS algorithms indication to the handover procedures	approved	A	4.1.0	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)	N4
NP-010288	29.010	025		3.5.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	revised	F		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)	N4
NP-010356	29.010	025	1	3.5.0	R99	Addition of allowed GSM algorithms indication to the handover procedures	approved	F	3.6.0	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)	N4
NP-010288	29.010	026		4.0.0	Rel-4	Addition of allowed GSM algorithms indication to the handover procedures	revised	A		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)	N4
NP-010356	29.010	026	1	4.0.0	Rel-4	Addition of allowed GSM algorithms indication to the handover procedures	approved	A	4.1.0	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)	N4
NP-010288	29.010	027		3.5.0	R99	Addition of GSM channel type and GSM chosen channel indications to handover procedures	revised	F		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)	N4
NP-010356	29.010	027	1	3.5.0	R99	Addition of GSM channel type and GSM chosen channel indications to handover procedures	approved	F	3.6.0	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)	N4

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NP-010288	29.010	028		4.0.0	Rel-4	Addition of GSM channel type and GSM chosen channel indications to handover procedures	revised	A		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)	N4
NP-010356	29.010	028	1	4.0.0	Rel-4	Addition of GSM channel type and GSM chosen channel indications to handover procedures	approved	A	4.1.0	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)	N4
NP-010299	29.010	029		3.5.0	R99	Partial Roaming – restriction by Location area	approved	F	3.6.0	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)	N4
NP-010299	29.010	030		4.0.0	Rel-4	Partial Roaming – restriction by Location area	approved	A	4.1.0	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)	N4
NP-010291	29.010	031		4.0.0	Rel-4	Mapping between RANAP and BSSMAP for Location Services	approved	A	4.1.0	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)	N4
NP-010291	29.010	032		3.5.0	R99	Mapping between RANAP and BSSMAP for Location Services	approved	F	3.6.0	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)	N4
NP-010291	29.010	033	1	3.5.0	R99	Mapping between RANAP and BSSMAP for Location Services	approved	F	3.6.0	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)	N4
NP-010291	29.010	034	1	4.0.0	Rel-4	Mapping between RANAP and BSSMAP for Location Services	approved	A	4.1.0	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)	N4

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NP-010298	29.060	193		3.8.0	R99	Correction/Clarification of GGSN handling of Update PDP Context Response	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010298	29.060	194		4.0.0	Rel-4	Correction/Clarification of GGSN handling of Update PDP Context Response	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	195		3.8.0	R99	Correction due to incorrectly implemented CR on the Error indication message	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	196		4.0.0	Rel-4	Correction due to incorrectly implemented CR on the Error indication message	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010298	29.060	197		3.8.0	R99	RNC IP Address IE format	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010298	29.060	198		4.0.0	Rel-4	RNC IP Address IE format	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	203	1	3.8.0	R99	Clarification of the handling of Version Not Supported; Supported Extension Headers and Error Indication messages	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	204	1	3.8.0	R99	Removal of the useless “version not supported” cause code from GTP messages	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	206		3.8.0	R99	Ambiguous text description of the CGF IE handling in the GTP create PDP context request message	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	207		3.8.0	R99	GTP Message Treatment	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	208		4.0.0	Rel-4	GTP Message Treatment	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	220		4.0.0	Rel-4	Clarification of the handling of Version Not Supported; Supported Extension Headers and Error Indication messages	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	221		4.0.0	Rel-4	Removal of the useless “version not supported” cause code from GTP messages	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	222		4.0.0	Rel-4	Ambiguous text description of the CGF IE handling in the GTP create PDP context request message	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	226		3.8.0	R99	Alignment of the 29.060 with the 23.060 for the SRNS Relocation procedure	approved	F	3.9.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010287	29.060	227		4.0.0	Rel-4	Alignment of the 29.060 with the 23.060 for the SRNS Relocation procedure	approved	A	4.1.0	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
NP-010256	29.061	017		3.5.0	R99	Clarifications on the non-transparent access mode"	approved	F	3.6.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-010256	29.061	018		4.0.0	Rel-4	Clarifications on the non-transparent access mode"	approved	A	4.1.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-010256	29.061	019		3.5.0	R99	Set the use of PPP between the MT and TE as an option when interworking with MIPv4	approved	F	3.6.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3

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NP-010256	29.061	020		4.0.0	Rel-4	Set the use of PPP between the MT and TE as an option when interworking with MIPv4	approved	A	4.1.0	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
NP-010311	29.078	155	3	3.7.0	R99	Contradiction and inconsistency among descriptions on SMS	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	156	2	4.0.0	Rel-4	Contradiction and inconsistency among descriptions on SMS	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	157	1	3.7.0	R99	Correction to ACR-GPRS procedure description	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	159	1	3.7.0	R99	Correction on the usage of SII2 parameter in CAP	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	160	1	3.7.0	R99	Correction to state transition for Assisting gsmSSF	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	161	1	3.7.0	R99	Correction to IMPORT statements	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	162	3	3.7.0	R99	ASN.1 syntax correction	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	163	3	4.0.0	Rel-4	ASN.1 syntax correction	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	164	2	3.7.0	R99	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	165		4.0.0	Rel-4	Correction of the MAXIMUM-FOR-FCI-BILLING-CHARGING value	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	166	1	3.7.0	R99	Correction of the gprsSSF error handling	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2

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NP-010312	29.078	167		4.0.0	Rel-4	Correction of the gprsSSF error handling	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	168	1	3.7.0	R99	Clarification of the TC dialogue termination	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	169	1	4.0.0	Rel-4	Clarification of the TC dialogue termination	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	170	1	3.7.0	R99	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	171	1	4.0.0	Rel-4	The termination of the dialogue is not clear after ActivityTestGPRS Return Result.	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	172	1	3.7.0	R99	Alignement the 29.078 on the 23.078	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	174	1	3.7.0	R99	Setting of End User Address Spare Bits	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010315	29.078	175	2	3.7.0	R99	Introduction of Reference Number for MO-SMS	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010312	29.078	176		4.0.0	Rel-4	Correction to IMPORT statements	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	177		4.0.0	Rel-4	Correction to ACR-GPRS procedure description	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010311	29.078	178		4.0.0	Rel-4	Correction on the usage of SII2 parameter in CAP	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	179		4.0.0	Rel-4	Alignement the 29.078 on the 23.078	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2

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NP-010311	29.078	180		4.0.0	Rel-4	Correction to state transition for Assisting gsmSSF	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010313	29.078	181		4.0.0	Rel-4	Setting of End User Address Spare Bits	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010315	29.078	182		4.0.0	Rel-4	Introduction of Reference Number for MO-SMS	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010314	29.078	183	1	3.7.0	R99	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010314	29.078	184		4.0.0	Rel-4	Indication of gsmSCF Address in Continue GPRS and Connect GPRS Ifs	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010317	29.078	185		3.7.0	R99	Use of the GPRS Reference in the case of the SCP load sharing	rejected	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010317	29.078	186		4.0.0	Rel-4	Use of the GPRS Reference in the case of the SCP load sharing	rejected	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010320	29.078	187		3.7.0	R99	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	revised	F		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010354	29.078	187	1	3.7.0	R99	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	approved	F	3.8.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010320	29.078	188		4.0.0	Rel-4	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	revised	A		Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010354	29.078	188	1	4.0.0	Rel-4	Correction for the CAMEL3 ACR-GPRS parameter range problem (roll-over)	approved	A	4.1.0	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
NP-010325	29.198	048		3.3.0	R99	IDL Correction of TpCallEventCriteria	approved	F	3.4.0	Open Service Architecture (OSI) Application Programming Interface (API) - Part 1	N5

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NP-010285	29.205	001	1	4.0.0	Rel-4	Changes to provide interworking between signalling transport	approved	F	4.1.0	Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3	N4
NP-010284	29.232	001	1	4.0.0	Rel-4	Text encoding of codec information on Mc interface	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010284	29.232	004	1	4.0.0	Rel-4	ATM-IP signalling transport Interworking	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010284	29.232	005	1	4.0.0	Rel-4	Alignment of Procedure names to TS 23.205 and Q.1950	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010284	29.232	006	3	4.0.0	Rel-4	Clarifications in 3GUP package	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010284	29.232	007	1	4.0.0	Rel-4	Clarification of Use of UP version property in 3GUP package	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010284	29.232	008	1	4.0.0	Rel-4	Updates to UP Relay Function, Appendix A	approved	F	4.1.0	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4
NP-010257	29.414	001		4.0.0	Rel-4	Editorial Clarifications in 29.414 and IANA registration	approved	F	4.1.0	Core network Nb nata transport and transport signalling	N3
NP-010271	44.064	001		4.0.0	Rel-4	Addition of UI Dummy command for use in RLC/MAC delayed TBF release procedure	Approved	B	4.1.0	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	N1
NP-010269	44.068	002	1	4.1.1	Rel-4	Clarification of the coding of otdi information in IA5 format	Approved	F	4.2.0	Group Call Control (GCC) Protocol	N1
NP-010269	44.069	002	1	4.1.1	Rel-4	Clarification of the coding of otdi information in IA5 format	Approved	F	4.2.0	Broadcast Call Control (BCC) protocol	N1
RP-010347	25.101	100		4.0.0	Rel-4	Correction for SSDT test parameters	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	101		3.6.0	R99	CR for UMTS1900 operation in Rel 99	rejected	F		UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	102		4.0.0	Rel-4	CR for UMTS1900 operation in Rel 4	rejected	A		UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	103		3.6.0	R99	UL DPCCH slot format for performance tests	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	104		4.0.0	Rel-4	UL DPCCH slot format for performance tests	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	105		3.6.0	R99	Clarification of power definition for UE maximum output power	rejected	F		UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	106		4.0.0	Rel-4	Clarification of power definition for UE maximum output power	rejected	A		UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	107		3.6.0	R99	Terminology for power definition	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	108		4.0.0	Rel-4	Terminology for power definition	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	109		3.6.0	R99	out of synchronization handling	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	110		4.0.0	Rel-4	out of synchronization handling	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	111		3.6.0	R99	Clarification of limits for inner loop power control	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	112		4.0.0	Rel-4	Clarification of limits for inner loop power control	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4

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RP-010347	25.101	113		3.6.0	R99	UE EVM definition	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	114		4.0.0	Rel-4	UE EVM definition	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	115		3.6.0	R99	CR on the Modification to OCNS code channels to allow for 384 kbps allocation	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	116		4.0.0	Rel-4	CR on the Modification to OCNS code channels to allow for 384 kbps allocation	approved	A	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010358	25.101	117		4.0.0	Rel-4	Correction of AICH performance	approved	F	4.1.0	UE Radio transmission and reception (FDD)	R4
RP-010347	25.101	99		3.6.0	R99	Correction for SSDT test parameters	approved	F	3.7.0	UE Radio transmission and reception (FDD)	R4
RP-010348	25.102	48		3.6.0	R99	Correction of signal descriptions in Receiver Characteristics section.	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	49		4.0.0	Rel-4	Correction of signal descriptions in Receiver Characteristics section.	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	50		3.6.0	R99	UE EVM definition	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	51		4.0.0	Rel-4	UE EVM definition	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	52		3.6.0	R99	Clarification of UARFCN channel number	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	53		4.0.0	Rel-4	Clarification of UARFCN channel number	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	54		3.6.0	R99	CR for UE Performance Requirements	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	55		4.0.0	Rel-4	CR for UE Performance Requirements	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	56		3.6.0	R99	Performance Test for Uplink Power Control	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	57		4.0.0	Rel-4	Performance Test for Uplink Power Control	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	58		3.6.0	R99	Corrections and note status changes from informative to normative	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	59		4.0.0	Rel-4	Corrections and note status changes from informative to normative	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010359	25.102	60		4.0.0	Rel-4	2MB/Sec downlink reference channel for 1.28 Mcps TDD	approved	F	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010359	25.102	61		4.0.0	Rel-4	Correction in BCH measurement channel description (1.28 Mcps TDD option)	approved	F	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010359	25.102	62		4.0.0	Rel-4	Correction of UE radio capabilities	approved	F	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010359	25.102	63		4.0.0	Rel-4	Out-of-sync handling during DTX for 1.28Mcps TDD Option	approved	F	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	64		3.6.0	R99	BCH performance requirement	approved	F	3.7.0	UE Radio transmission and reception (TDD)	R4
RP-010348	25.102	65		4.0.0	Rel-4	BCH performance requirement	approved	A	4.1.0	UE Radio transmission and reception (TDD)	R4

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RP-010359	25.102	66		4.0.0	Rel-4	Clarification of UARFCN channel number for 1.28 Mcps TDD	approved	F	4.1.0	UE Radio transmission and reception (TDD)	R4
RP-010349	25.104	64		3.6.0	R99	Receiver blocking characteristics	approved	F	3.7.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	65		4.0.0	Rel-4	Receiver Blocking characteristics	approved	A	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	66		3.6.0	R99	Receiver spurious emission for co-located base stations	approved	F	3.7.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	67		4.0.0	Rel-4	Receiver spurious emission for co-located base stations	approved	A	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	68		3.6.0	R99	Definition of Eb/No used for uplink receiver performance requirements in TS 25.104	approved	F	3.7.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	69		4.0.0	Rel-4	Definition of Eb/No used for uplink receiver performance requirements in TS 25.104	approved	A	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	70		3.6.0	R99	ACLR definition	approved	F	3.7.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	71		4.0.0	Rel-4	ACLR definition	approved	A	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010467	25.104	72		4.0.0	Rel-4	Requirements for demodulation of RACH message	approved	F	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	73		3.6.0	R99	CR for UMTS1900 operation in Rel 99	rejected	F		UTRA (BS) FDD; Radio transmission and reception	R4
RP-010349	25.104	74		4.0.0	Rel-4	CR for UMTS1900 operation in Rel 4	rejected	A		UTRA (BS) FDD; Radio transmission and reception	R4
RP-010467	25.104	75		4.0.0	Rel-4	RACH preamble requirements	approved	F	4.1.0	UTRA (BS) FDD; Radio transmission and reception	R4
RP-010361	25.105	53		4.0.0	Rel-4	Differential accuracy of P-CCPCH power	approved	B	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	54		3.6.0	R99	inclusion of environmental requirements	approved	F	3.7.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	55		4.0.0	Rel-4	inclusion of environmental requirements	approved	A	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	56		3.6.0	R99	Application of blocking requirement	approved	F	3.7.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	57		4.0.0	Rel-4	Application of blocking requirement	approved	A	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	58		3.6.0	R99	CR for BS Performance Requirements	approved	F	3.7.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	59		4.0.0	Rel-4	CR for BS Performance Requirements	approved	A	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010361	25.105	60		4.0.0	Rel-4	Clarification of transmit intermodulation requirements	approved	F	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010361	25.105	61		4.0.0	Rel-4	BS EVM definition correction	approved	F	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	62		3.6.0	R99	Correction to upper frequency of transmitter Spurious emission limits	approved	F	3.7.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010350	25.105	63		4.0.0	Rel-4	Correction to upper frequency of transmitter spurious emission limits	approved	A	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4

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RP-010361	25.105	64		4.0.0	Rel-4	Application of blocking requirement for 1.28 Mcps TDD	approved	F	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010361	25.105	65		4.0.0	Rel-4	Correction to upper frequency of transmitter spurious emission limits for 1.28 Mcps TDD	approved	F	4.1.0	UTRA (BS) TDD: Radio transmission and reception	R4
RP-010362	25.113	10		4.0.0	Rel-4	Correction to the description of the radiated spurious emission test method (1.28 Mcps TDD optioon)	approved	F	4.1.0	Base station EMC	R4
RP-010351	25.123	46		3.5.0	R99	UTRAN Measurements Test Cases	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	47		4.0.0	Rel-4	UTRAN Measurement Test Cases	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	48		3.5.0	R99	Cell synchronisation definition	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	49		4.0.0	Rel-4	Cell synchronisation definition	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	50		3.5.0	R99	UE measurement capability	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	51		4.0.0	Rel-4	UE measurement capability	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	52		3.5.0	R99	Measurements performance requirements	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	53		4.0.0	Rel-4	Measurement performance requirements	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	54		3.5.0	R99	FDD Measurements in Cell DCH State	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	55		4.0.0	Rel-4	FDD measurements in Cell DCH State	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	56		3.5.0	R99	Test tolerances	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	57		4.0.0	Rel-4	Test tolerances	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	58		3.5.0	R99	UE P-CCPCH RSCP relative accuracy	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	59		4.0.0	Rel-4	UE P-CCPCH RSCP relative accuracy	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	60		3.5.0	R99	UE P-CCPCH RSCP inter-frequency accuracy	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	61		4.0.0	Rel-4	UE P-CCPCH RSCP inter-frequency accuracy	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	62		3.5.0	R99	UE Tx Timing	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	63		4.0.0	Rel-4	UE Tx Timing	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	64		3.5.0	R99	Correction of re-selection requirements in Cell-FACH state.	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010351	25.123	65		4.0.0	Rel-4	Correction of re-selection requirements in cell_FACH state	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	66		3.5.0	R99	General section 5 corrections	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4

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RP-010352	25.123	67		4.0.0	Rel-4	General section 5 corrections	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	68		3.5.0	R99	Correction to chapter 4.2 Cell re-selection	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	69		4.0.0	Rel-4	Correction to chapter 4.2 Cell re-selection	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	70		3.5.0	R99	TDD Measurements in Cell DCH State	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	71		4.0.0	Rel-4	TDD measurements in Cell DCH State	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	72		3.5.0	R99	GSM Measurements in Cell DCH State	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	73		4.0.0	Rel-4	GSM measurement in CELL_DCH State	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	74		4.0.0	Rel-4	UTRAN SFN-SFN observed time difference	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	75		4.0.0	Rel-4	UE SFN-SFN mapping	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	76		4.0.0	Rel-4	Clarification of NodeBsynch	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	77		4.0.0	Rel-4	UTRAN GPS timing of cell frames for UP mapping	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	78		4.0.0	Rel-4	LCR UE/UTRAN GPS timing of cell frames for UP	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	79		3.5.0	R99	Measurements in Cell FACH State	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	80		4.0.0	Rel-4	Measurements in cell_FACH state	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	81		3.5.0	R99	TDD Measurement Test Cases	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	82		4.0.0	Rel-4	TDD measurement test cases	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	83		3.5.0	R99	FDD Measurement Test Cases	approved	F	3.6.0	Requirements for support of radio resource management (TDD)	R4
RP-010352	25.123	84		4.0.0	Rel-4	FDD measurement test cases	approved	A	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	85		4.0.0	Rel-4	General section 5 corrections for 1.28 Mcps TDD	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	86		4.0.0	Rel-4	Correction of re-selection requirements in cell_FACH state for 1.28 Mcps	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010363	25.123	87		4.0.0	Rel-4	1.28 TDD test cases for TDD and FDD measurements	approved	F	4.1.0	Requirements for support of radio resource management (TDD)	R4
RP-010353	25.133	100		4.0.0	Rel-4	Cell-reselection test cases in CELL_PCH and URA_PCH	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	101		3.5.0	R99	Idle mode cell-reselection test cases	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	102		4.0.0	Rel-4	Idle mode cell-reselection test cases	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4

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RP-010353	25.133	103		3.5.0	R99	Measurements in CELL_FACH State	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	104		4.0.0	Rel-4	Measurements in CELL_FACH State	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	105		3.5.0	R99	Cell-reselection test cases in CELL_FACH	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	106		4.0.0	Rel-4	Cell-reselection test cases in CELL_FACH	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	107		3.5.0	R99	GSM measurements in CELL_DCH state	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	108		4.0.0	Rel-4	GSM measurements in CELL_DCH state	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	109		3.5.0	R99	TFC selection at maximum output power	rejected	F		Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	110		4.0.0	Rel-4	TFC selection at maximum output power	rejected	A		Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	111		3.5.0	R99	Corrections for multiple neighbour test cases	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	112		4.0.0	Rel-4	Corrections for multiple neighbour test cases	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	113		3.5.0	R99	Corrections for Section 5	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	114		4.0.0	Rel-4	Corrections for Section 5	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	115		3.5.0	R99	RRC Connection re-establishment	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	116		4.0.0	Rel-4	RRC Connection re-establishment	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	117		3.5.0	R99	Corrections for Section 9	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	118		4.0.0	Rel-4	Corrections for Section 9	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	119		3.5.0	R99	Correction for a CPICH_Ec/Io definition	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	120		4.0.0	Rel-4	Correction for a CPICH_Ec/Io definition	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	121		3.5.0	R99	Detection and measurements of new cells not belonging to monitored set	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010354	25.133	122		4.0.0	Rel-4	Detection and measurements of new cells not belonging to monitored set	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010364	25.133	123		4.0.0	Rel-4	Detection and measurements of new cells not belonging to monitored set	approved	F	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010440	25.133	124		3.5.0	R99	TFC selection at maximum output power	revised	F		Requirements for support of radio resource management (FDD)	R4
RP-010447	25.133	124	1	3.5.0	R99	TFC selection at maximum output power	revised	F		Requirements for support of radio resource management (FDD)	R4
RP-010495	25.133	124	2	3.5.0	R99	TFC selection at maximum output power	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4

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RP-010440	25.133	125		4.0.0	Rel-4	TFC selection at maximum output power	revised	A		Requirements for support of radio resource management (FDD)	R4
RP-010447	25.133	125	1	4.0.0	Rel-4	TFC selection at maximum output power	revised	A		Requirements for support of radio resource management (FDD)	R4
RP-010495	25.133	125	2	4.0.0	Rel-4	TFC selection at maximum output power	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	89		3.5.0	R99	Correction of FDD/TDD handover requirement.	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	90		4.0.0	Rel-4	Correction of FDD/TDD handover requirement.	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	91		3.5.0	R99	Extraction of TGSN_proposed	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	92		4.0.0	Rel-4	Extraction of TGSN_proposed	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	93		3.5.0	R99	Corrections to cell re-selection requirements	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	94		4.0.0	Rel-4	Corrections to cell re-selection requirements	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	95		3.5.0	R99	UTRAN to GSM cell reselection delay in CELL_FACH state	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	96		4.0.0	Rel-4	UTRAN to GSM cell reselection delay in CELL_FACH state	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	97		3.5.0	R99	Corrections for idle mode section	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	98		4.0.0	Rel-4	Corrections for idle mode section	approved	A	4.1.0	Requirements for support of radio resource management (FDD)	R4
RP-010353	25.133	99		3.5.0	R99	Cell-reselection test cases in CELL_PCH and URA_PCH	approved	F	3.6.0	Requirements for support of radio resource management (FDD)	R4
RP-010355	25.141	84		3.5.0	R99	CR TS25.141 Measurement uncertainty	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	85		4.0.0	Rel-4	CR TS25.141 Measurement uncertainty	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	86		3.5.0	R99	ACLR definition	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	87		4.0.0	Rel-4	ACLR definition	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	88		3.5.0	R99	Clarification of AWGN definition	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	89		4.0.0	Rel-4	Clarification of AWGN definition	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	90		3.5.0	R99	Corrections to 25.141 specification	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	91		4.0.0	Rel-4	Corrections to 25.141 specification	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	93		3.5.0	R99	Receiver spurious emission for co-located base stations	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	94		4.0.0	Rel-4	Receiver spurious emission for co-located base stations	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	95		3.5.0	R99	Correction to core requirement spectrum mask	approved	F	3.6.0	Base station conformance testing (FDD)	R4
RP-010355	25.141	96		4.0.0	Rel-4	Correction to core requirement spectrum mask	approved	A	4.1.0	Base station conformance testing (FDD)	R4
RP-010356	25.142	57		3.5.0	R99	Application of blocking requirement	approved	F	3.6.0	Base station conformance testing (TDD)	R4
RP-010356	25.142	58		4.0.0	Rel-4	Application of blocking requirement	approved	A	4.1.0	Base station conformance testing (TDD)	R4
RP-010366	25.142	59		4.0.0	Rel-4	clarification of transmit intermodulation requirements	approved	F	4.1.0	Base station conformance testing (TDD)	R4
RP-010366	25.142	60		4.0.0	Rel-4	CR on subclause 6.6.3 "Spurious emissions"	approved	F	4.1.0	Base station conformance testing (TDD)	R4
RP-010356	25.142	61		3.5.0	R99	correction of the upper frequency limit for Tx spurious emissions measurements	approved	F	3.6.0	Base station conformance testing (TDD)	R4

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RP-010356	25.142	62		4.0.0	Rel-4	correction of the upper frequency limit for Tx spurious emissions measurements	approved	A	4.1.0	Base station conformance testing (TDD)	R4
RP-010366	25.142	63		4.0.0	Rel-4	Application of blocking requirement for 1.28 Mcps	approved	F	4.1.0	Base station conformance testing (TDD)	R4
RP-010366	25.142	64		4.0.0	Rel-4	BS EVM definition correction	approved	F	4.1.0	Base station conformance testing (TDD)	R4
RP-010367	25.143	1		4.0.0	Rel-4	Measurement uncertainty corrections	approved	F	4.1.0	UTRA Repeater; Conformance testing	R4
RP-010331	25.211	097	-	3.6.0	R99	Downlink Phase Reference for DL-DPCCH for CPCH	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	098	-	4.0.0	Rel-4	Downlink Phase Reference for DL-DPCCH for CPCH	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	099	-	3.6.0	R99	Removal of out-of-date reference to FACH beamforming	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	100	-	4.0.0	Rel-4	Removal of out-of-date reference to FACH beamforming	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	101	-	3.6.0	R99	Correction of compressed mode by puncturing	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	102	-	4.0.0	Rel-4	Correction of compressed mode by puncturing	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	103	-	3.6.0	R99	Correction of the representation of slot format	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	104	-	4.0.0	Rel-4	Correction of the representation of slot format	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	105	1	3.6.0	R99	Clarification of PDSCH definition	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010331	25.211	106	1	4.0.0	Rel-4	Clarification of PDSCH definition	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (FDD)	R1
RP-010332	25.212	105	-	3.5.0	R99	Correction of compressed mode by puncturing	approved	F	3.6.0	Multiplexing and channel coding (FDD)	R1
RP-010332	25.212	106	-	4.0.0	Rel-4	Correction of compressed mode by puncturing	approved	A	4.1.0	Multiplexing and channel coding (FDD)	R1
RP-010332	25.212	107	1	3.5.0	R99	Dual transport format detection	approved	F	3.6.0	Multiplexing and channel coding (FDD)	R1
RP-010332	25.212	108	1	4.0.0	Rel-4	Dual transport format detection	approved	A	4.1.0	Multiplexing and channel coding (FDD)	R1
RP-010332	25.212	111	1	3.5.0	R99	Correction for downlink rate matching for the DSCH	approved	F	3.6.0	Multiplexing and channel coding (FDD)	R1
RP-010332	25.212	112	1	4.0.0	Rel-4	Correction for downlink rate matching for the DSCH	approved	A	4.1.0	Multiplexing and channel coding (FDD)	R1
RP-010333	25.213	040	1	3.5.0	R99	Clarification of DL channelization code alignment	approved	F	3.6.0	Spreading and modulation (FDD)	R1
RP-010333	25.213	041	1	4.0.0	Rel-4	Clarification of DL channelization code alignment	approved	A	4.1.0	Spreading and modulation (FDD)	R1
RP-010333	25.213	042	1	3.5.0	R99	Clarification of PDSCH root channelisation code definition	approved	F	3.6.0	Spreading and modulation (FDD)	R1
RP-010333	25.213	043	1	4.0.0	Rel-4	Clarification of PDSCH root channelisation code definition	approved	A	4.1.0	Spreading and modulation (FDD)	R1
RP-010341	25.214	164	1	4.0.0	Rel-4	Clarification on the usage of SSDT signaling in uplink	approved	F	4.1.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	165	1	3.6.0	R99	Limited power raise: aligning of terminology with TS25.433	approved	D	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	166	1	4.0.0	Rel-4	Limited power raise: aligning of terminology with TS25.433	approved	A	4.1.0	Physical layer procedures (FDD)	R1

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RP-010334	25.214	167	1	4.0.0	Rel-4	Correction of IPDL burst parameters	approved	A	4.1.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	168	1	3.6.0	R99	Correction of synchronisation primitives	approved	F	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	169	1	4.0.0	Rel-4	Correction of synchronisation primitives	approved	A	4.1.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	176	1	3.6.0	R99	Clarification on TPC command generation on downlink during RL initialisation	approved	F	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	177	1	4.0.0	Rel-4	Clarification on TPC command generation on downlink during RL initialisation	approved	A	4.1.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	180	2	3.6.0	R99	Clarification of synchronisation procedures	revised	F		Physical layer procedures (FDD)	R1
RP-010441	25.214	180	3	3.6.0	R99	Clarification of synchronisation procedures	revised	F		Physical layer procedures (FDD)	R1
RP-010482	25.214	180	4	3.6.0	R99	Clarification of synchronisation procedures	approved	F		Physical layer procedures (FDD)	R1
RP-010334	25.214	181	2	4.0.0	Rel-4	Clarification of synchronisation procedures	revised	A		Physical layer procedures (FDD)	R1
RP-010441	25.214	181	3	4.0.0	Rel-4	Clarification of synchronisation procedures	revised	A		Physical layer procedures (FDD)	R1
RP-010482	25.214	181	4	4.0.0	Rel-4	Clarification of synchronisation procedures	approved	A		Physical layer procedures (FDD)	R1
RP-010334	25.214	182	-	3.6.0	R99	Clarification of initialisation of closed loop mode 1 and 2 during compressed mode	approved	F	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	183	-	4.0.0	Rel-4	Clarification of initialisation of closed loop mode 1 and 2 during compressed mode	approved	A	4.1.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	184	1	3.6.0	R99	Correction of IPDL burst parameters	approved	F	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	185	-	3.6.0	R99	DL maximum power level in compressed mode	approved	F	3.7.0	Physical layer procedures (FDD)	R1
RP-010334	25.214	186	-	4.0.0	Rel-4	DL maximum power level in compressed mode	approved	A	4.1.0	Physical layer procedures (FDD)	R1
RP-010335	25.215	087	-	3.6.0	R99	Renaming of LCS measurements	approved	F	3.7.0	Physical layer; Measurements (FDD)	R1
RP-010456	25.215	087	1	3.6.0	R99	Renaming of LCS measurements	approved	F	3.7.0	Physical layer; Measurements (FDD)	R1
RP-010335	25.215	088	-	4.0.0	Rel-4	Renaming of LCS measurements	approved	A	4.1.0	Physical layer; Measurements (FDD)	R1
RP-010456	25.215	088	1	4.0.0	Rel-4	Renaming of LCS measurements	approved	A	4.1.0	Physical layer; Measurements (FDD)	R1
RP-010335	25.215	089	1	3.6.0	R99	Correction the TrCH BLER measurement	revised	F		Physical layer; Measurements (FDD)	R1
RP-010335	25.215	090	1	4.0.0	Rel-4	Correction the TrCH BLER measurement	revised	A		Physical layer; Measurements (FDD)	R1
RP-010336	25.221	047	1	3.6.0	R99	Clarification of Midamble Usage in TS25.221	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010342	25.221	049	-	4.0.0	Rel-4	Correction of spelling in definition of beacon characteristics	approved	D	4.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010336	25.221	050	2	3.6.0	R99	Addition to the abbreviation list, correction of references to tables and figures	approved	F	3.7.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010336	25.221	051	-	4.0.0	Rel-4	Clarification of Midamble Usage in TS25.221	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010336	25.221	053	-	4.0.0	Rel-4	Addition to the abbreviation list, correction of references to tables and figures	approved	A	4.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010342	25.221	055	-	4.0.0	Rel-4	Correction of Note for PDSCH signalling methods	approved	F	4.1.0	Physical channels and mapping of transport channels onto physical channels (TDD)	R1
RP-010337	25.223	018	-	3.5.0	R99	Addition to the abbreviation list and definition of a constant	approved	F	3.6.0	Spreading and modulation (TDD)	R1
RP-010337	25.223	019	-	4.0.0	Rel-4	Addition to the abbreviation list and definition of a constant	approved	A	4.1.0	Spreading and modulation (TDD)	R1
RP-010343	25.224	049	-	4.0.0	Rel-4	Clarification of IP_Frame(x) definition	approved	D	4.1.0	Physical layer procedures (TDD)	R1

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RP-010338	25.224	054	2	3.6.0	R99	Addition to the abbreviation list	approved	F	3.7.0	Physical layer procedures (TDD)	R1
RP-010343	25.224	055	1	4.0.0	Rel-4	Correction of IPDL burst parameters	approved	F	4.1.0	Physical layer procedures (TDD)	R1
RP-010338	25.224	056	-	3.6.0	R99	Correction of Timing Advance section for 3.84 Mcps TDD	approved	F	3.7.0	Physical layer procedures (TDD)	R1
RP-010338	25.224	057	-	4.0.0	Rel-4	Correction of Timing Advance section for 3.84 Mcps TDD	approved	A	4.1.0	Physical layer procedures (TDD)	R1
RP-010338	25.224	059	-	4.0.0	Rel-4	Addition to the abbreviation list	approved	A	4.1.0	Physical layer procedures (TDD)	R1
RP-010339	25.225	026	1	3.6.0	R99	Addition to the abbreviation list	approved	F	3.7.0	Physical layer; Measurements (TDD)	R1
RP-010339	25.225	028	-	3.6.0	R99	Renaming of LCS measurements	approved	F	3.7.0	Physical layer; Measurements (TDD)	R1
RP-010339	25.225	029	-	4.0.0	Rel-4	Renaming of LCS measurements	approved	A	4.1.0	Physical layer; Measurements (TDD)	R1
RP-010339	25.225	030	-	4.0.0	Rel-4	Addition to the abbreviation list	approved	A	4.1.0	Physical layer; Measurements (TDD)	R1
RP-010302	25.301	053		3.7.0	R99	Clarification in the services provided to upper layers by RLC	approved	F	3.8.0	Radio Interface Protocol Architecture	R2
RP-010302	25.301	054		4.0.0	Rel-4	Clarification in the services provided to upper layers by RLC	approved	A	4.1.0	Radio Interface Protocol Architecture	R2
RP-010302	25.301	055	1	3.7.0	R99	Cleanup of Layer 2 services and functions	approved	F	3.8.0	Radio Interface Protocol Architecture	R2
RP-010302	25.301	056		4.0.0	Rel-4	Cleanup of Layer 2 services and functions	approved	A	4.1.0	Radio Interface Protocol Architecture	R2
RP-010303	25.302	099	1	3.8.0	R99	Physical Channel Combination	approved	F	3.9.0	Services provided by the physical layer	R2
RP-010303	25.302	100		4.0.0	Rel-4	Physical Channel Combination	approved	A	4.1.0	Services provided by the physical layer	R2
RP-010303	25.302	101	1	3.8.0	R99	General corrections and clarifications	approved	F	3.9.0	Services provided by the physical layer	R2
RP-010303	25.302	102		4.0.0	Rel-4	General corrections and clarifications	approved	A	4.1.0	Services provided by the physical layer	R2
RP-010320	25.302	103		4.0.0	Rel-4	Correction to transport formats for common channels in 1.28Mcps TDD	approved	F	4.1.0	Services provided by the physical layer	R2
RP-010303	25.302	104		3.8.0	R99	Definition of empty TF and TFC	approved	F	3.9.0	Services provided by the physical layer	R2
RP-010303	25.302	105		4.0.0	Rel-4	Definition of empty TF and TFC	approved	A	4.1.0	Services provided by the physical layer	R2
RP-010320	25.302	106		4.0.0	Rel-4	Timing Advance (TADV) for 1.28Mcps TDD	approved	F	4.1.0	Services provided by the physical layer	R2
RP-010304	25.303	045	1	3.7.0	R99	Corrections to procedure examples	approved	F	3.8.0	UE functions and inter-layer procedures in connected mode	R2
RP-010304	25.303	046		4.0.0	Rel-4	Corrections to procedure examples	approved	A	4.1.0	UE functions and inter-layer procedures in connected mode	R2
RP-010305	25.304	071	2	3.6.0	R99	Corrections to 25.304	approved	F	3.7.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010305	25.304	072		4.0.0	Rel-4	Corrections to 25.304	approved	A	4.1.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010305	25.304	073	1	3.6.0	R99	Emergency calls in barred cells	revised	F		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010435	25.304	073	2	3.6.0	R99	Emergency calls in barred cells	approved	F	3.7.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010305	25.304	074		4.0.0	Rel-4	Emergency calls in barred cells	revised	A		UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010435	25.304	074	1	4.0.0	Rel-4	Emergency calls in barred cells	approved	A	4.1.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2

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RP-010305	25.304	077	1	3.6.0	R99	Clarification to usage of measurement thresholds	approved	F	3.7.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010305	25.304	078		4.0.0	Rel-4	Clarification to usage of measurement thresholds	approved	A	4.1.0	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2
RP-010306	25.305	051		3.5.0	R99	Removal of positioning request transfer during SRNS relocation	approved	F	3.6.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010306	25.305	052		4.0.0	Rel-4	Removal of positioning request transfer during SRNS relocation	approved	A	4.1.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010306	25.305	053		5.0.0	Rel-5	Removal of positioning request transfer during SRNS relocation	approved	A	5.1.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010325	25.305	054		5.0.0	Rel-5	Iupc architectural aspects modifications	approved	F	5.1.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010325	25.305	055		5.0.0	Rel-5	Removal of RAN3 dependency w.r.t. PCAP signalling flows	approved	F	5.1.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010325	25.305	056	2	5.0.0	Rel-5	PCAP message flows	approved	C	5.1.0	Stage 2 functional specification of UE positioning in UTRAN	R2
RP-010321	25.306	009	6	4.0.0	Rel-4	Modified UE Capability for CPCH	approved	C	4.1.0	UE Radio Access capabilities definition	R2
RP-010307	25.306	012	1	3.1.0	R99	Clarification on the number of CCTrCHs to be received simultaneously by the UE	approved	F	3.2.0	UE Radio Access capabilities definition	R2
RP-010307	25.306	013		4.0.0	Rel-4	Clarification on the number of CCTrCHs to be received simultaneously by the UE	approved	A	4.1.0	UE Radio Access capabilities definition	R2
RP-010438	25.307	001		3.0.0	Rel-4	Correction to creat Release 4	postponed	F		Requirements on UE supporting a release-independent frequency band	R2
RP-010308	25.321	073	1	3.7.0	R99	RLC Tr Discard	approved	F	3.8.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	074		4.0.0	Rel-4	RLC Tr Discard	approved	A	4.1.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	075	1	3.7.0	R99	Clarification on compressed mode	approved	F	3.8.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	076		4.0.0	Rel-4	Clarification on compressed mode	approved	A	4.1.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	077	1	3.7.0	R99	Correction of relation between MAC functions and transport channels	approved	F	3.8.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	078		4.0.0	Rel-4	Correction of relation between MAC functions and transport channels	approved	A	4.1.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	079	1	3.7.0	R99	Rate adaptation	approved	F	3.8.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	080		4.0.0	Rel-4	Rate adaptation	approved	A	4.1.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	081	1	3.7.0	R99	Cleanup of MAC services and functions	approved	F	3.8.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010308	25.321	082		4.0.0	Rel-4	Cleanup of MAC services and functions	approved	A	4.1.0	Medium Access Control (MAC) Protocol Specification	R2
RP-010322	25.321	083		4.0.0	Rel-4	Correction to control of RACH Transmissions for 1.28Mcps TDD	approved	F	4.1.0	Medium Access Control (MAC) Protocol Specification	R2

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RP-010309	25.322	119	1	3.6.0	R99	Clarification on ACK SUFI	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	120		4.0.0	Rel-4	Clarification on ACK SUFI	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	121	1	3.6.0	R99	MRW SUFI clarification and enhancement	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	122		4.0.0	Rel-4	MRW SUFI clarification and enhancement	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	123	1	3.6.0	R99	Clarification on AM states	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	124		4.0.0	Rel-4	Clarification on AM states	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	125	1	3.6.0	R99	Clarification on HFN update in RESET procedure	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	126		4.0.0	Rel-4	Clarification on HFN update in RESET procedure	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	127	1	3.6.0	R99	Clarification of RLC Discard	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	128		4.0.0	Rel-4	Clarification of RLC Discard	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	129		3.6.0	R99	Removal of reference to RRC	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	130		4.0.0	Rel-4	Removal of reference to RRC	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	131	1	3.6.0	R99	Clarification in the LI Parameters section	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	132		4.0.0	Rel-4	Clarification in the LI Parameters section	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	135	1	3.6.0	R99	Cleanup of RLC services and functions	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	136		4.0.0	Rel-4	Cleanup of RLC services and functions	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	137	1	3.6.0	R99	Clarification on RLC re-establishment	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	138	1	4.0.0	Rel-4	Clarification on RLC re-establishment	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	139	1	3.6.0	R99	Corrections and clarifications to the LIST and RLIST SUFI types	approved	F	3.7.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010309	25.322	140		4.0.0	Rel-4	Corrections and clarifications to the LIST and RLIST SUFI types	approved	A	4.1.0	Radio Link Control (RLC) Protocol Specification	R2
RP-010310	25.323	020	1	3.4.0	R99	Clarification on PDCP Sequence numbering	approved	F	3.5.0	Packet Data Convergence Protocol (PDCP) protocol	R2
RP-010310	25.323	021		4.0.0	Rel-4	Clarification on PDCP Sequence numbering	approved	A	4.1.0	Packet Data Convergence Protocol (PDCP) protocol	R2
RP-010311	25.331	730	1	3.6.0	R99	Clarification of the IE 'spreading factor' in Uplink DPCH info for FDD mode	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	731		4.0.0	Rel-4	Clarification of the IE 'spreading factor' in Uplink DPCH info for FDD mode	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010311	25.331	732	1	3.6.0	R99	Correction of UE Radio Access Capability depending on UTRAN FDD bands	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	733		4.0.0	Rel-4	Correction of UE Radio Access Capability depending on UTRAN FDD bands	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	734	2	3.6.0	R99	Clarification on Security mode control	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	735		4.0.0	Rel-4	Clarification on Security mode control	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	737	1	3.6.0	R99	Correction of TrCH parameter handling	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	738		4.0.0	Rel-4	Correction of TrCH parameter handling	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	739	1	3.6.0	R99	TFC Subsets in TDD	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	740		4.0.0	Rel-4	TFC Subsets in TDD	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	745	2	3.6.0	R99	RRC containers	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	746		4.0.0	Rel-4	RRC containers	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	747	1	3.6.0	R99	Various corrections	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	748		4.0.0	Rel-4	Various corrections	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	749	1	3.6.0	R99	General error handling for system information	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	750		4.0.0	Rel-4	General error handling for system information	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	751	1	3.6.0	R99	Order of elements in strings	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	752		4.0.0	Rel-4	Order of elements in strings	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	753	1	3.6.0	R99	Configuration consistency checks	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010311	25.331	754		4.0.0	Rel-4	Configuration consistency checks	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	755	1	3.6.0	R99	Compressed mode corrections	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	756		4.0.0	Rel-4	Compressed mode corrections	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	757	1	3.6.0	R99	Correction concerning inter-RAT procedures	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	758		4.0.0	Rel-4	Correction concerning inter-RAT procedures	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	761	1	3.6.0	R99	Measurement corrections	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	762		4.0.0	Rel-4	Measurement corrections	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010312	25.331	763		3.6.0	R99	RLC Tr Discard	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	764		4.0.0	Rel-4	RLC Tr Discard	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	765	1	3.6.0	R99	Annex B CPCH Correction in R'99	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	766		4.0.0	Rel-4	Annex B CPCH Correction in R'99	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	767	1	3.6.0	R99	SIB Correction for CSICH Power Offset	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	768		4.0.0	Rel-4	SIB Correction for CSICH Power Offset	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	769	1	3.6.0	R99	Transfer of Last known position in case of SRNS relocation	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	770		4.0.0	Rel-4	Transfer of Last known position in case of SRNS relocation	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	771	1	3.6.0	R99	Corrections to UE Positioning measurements	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	772		4.0.0	Rel-4	Corrections to UE Positioning measurements	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010323	25.331	773		4.0.0	Rel-4	Corrections to IPDLs for TDD	approved	F	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	778	1	3.6.0	R99	GSM measurements in compressed mode	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	779		4.0.0	Rel-4	GSM measurements in compressed mode	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	780	2	3.6.0	R99	Correction of Activation Time in Inter-Rat HO Commands	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010312	25.331	781		4.0.0	Rel-4	Correction of Activation Time in Inter-Rat HO Commands	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	784	1	3.6.0	R99	Clarification of FRESH in SRNS relocation	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	785		4.0.0	Rel-4	Clarification of FRESH in SRNS relocation	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	788	1	3.6.0	R99	Correction to UE timers and constants in idle mode	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	789		4.0.0	Rel-4	Correction to UE timers and constants in idle mode	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	792	1	3.6.0	R99	Clarification on multiframe allocation in TDD	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	793		4.0.0	Rel-4	Clarification on multiframe allocation in TDD	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	794	1	3.6.0	R99	Predefined parameters for logical channels	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	795		4.0.0	Rel-4	Predefined parameters for logical channels	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	796	1	3.6.0	R99	Pathloss calculation	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010313	25.331	797		4.0.0	Rel-4	Pathloss calculation	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	798	1	3.6.0	R99	Clarification on periodic measurement reporting	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	799		4.0.0	Rel-4	Clarification on periodic measurement reporting	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	802	2	3.6.0	R99	Handling of IE PRACH TFCS and Primary CPICH/Primary CCPCH info	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	803	1	4.0.0	Rel-4	Handling of IE PRACH TFCS and Primary CPICH/Primary CCPCH info	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	804	1	3.6.0	R99	Correction to FACH measurement occasion in TDD	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	805		4.0.0	Rel-4	Correction to FACH measurement occasion in TDD	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	806	2	3.6.0	R99	Clarification of L1 synchronization procedures	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	807		4.0.0	Rel-4	Clarification of L1 synchronization procedures	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	808	1	3.6.0	R99	Correction of Activation Time definition	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010313	25.331	809		4.0.0	Rel-4	Correction of Activation Time definition	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	812	1	3.6.0	R99	Corrections to RRC procedure performance	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	813		4.0.0	Rel-4	Corrections to RRC procedure performance	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	814	1	3.6.0	R99	Removal of mapping function	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	815		4.0.0	Rel-4	Removal of mapping function	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	816	3	3.6.0	R99	Security clarifications	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	817		4.0.0	Rel-4	Security clarifications	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	818	1	3.6.0	R99	Corrections to UE Positioning	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	819		4.0.0	Rel-4	Corrections to UE Positioning	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	824	1	3.6.0	R99	Definition of DPCH numbering	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	825		4.0.0	Rel-4	Definition of DPCH numbering	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	826	4	3.6.0	R99	Corrections to System Information Procedure	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	827		4.0.0	Rel-4	Corrections to System Information Procedure	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	828	1	3.6.0	R99	Relation between DOFF and DPCH Frame Offset	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010314	25.331	829		4.0.0	Rel-4	Relation between DOFF and DPCH Frame Offset	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	830	1	3.6.0	R99	Procedures for "same as UL"	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	831		4.0.0	Rel-4	Procedures for "same as UL"	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	836	1	3.6.0	R99	Editorial and minor corrections	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	837		4.0.0	Rel-4	Editorial and minor corrections	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	838	1	3.6.0	R99	Editorial Correction	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010314	25.331	839		4.0.0	Rel-4	Editorial Correction	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	840	2	3.6.0	R99	UE Positioning Measurement Accuracy Indication	rejected	F		Radio Resource Control (RRC) Protocol Specification	R2
RP-010466	25.331	840	3	3.6.0	R99	UE Positioning Measurement Accuracy Indication	revised	F		Radio Resource Control (RRC) Protocol Specification	R2
RP-010479	25.331	840	4	3.6.0	R99	UE Positioning Measurement Accuracy Indication	Withdrawn	F		Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	841		4.0.0	Rel-4	UE Positioning Measurement Accuracy Indication	rejected	A		Radio Resource Control (RRC) Protocol Specification	R2
RP-010466	25.331	841	1	4.0.0	Rel-4	UE Positioning Measurement Accuracy Indication	revised	A		Radio Resource Control (RRC) Protocol Specification	R2
RP-010479	25.331	841	2	4.0.0	Rel-4	UE Positioning Measurement Accuracy Indication	Withdrawn	A		Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	842	1	3.6.0	R99	Corrections on OTDOA-IPDL specific burst parameter semantic description	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	843		4.0.0	Rel-4	Corrections on OTDOA-IPDL specific burst parameter semantic description	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	844	1	3.6.0	R99	Error handling for messages sent from another RAT	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	845		4.0.0	Rel-4	Error handling for messages sent from another RAT	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	848	2	3.6.0	R99	Needed TFC in the TFCS for TDD	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	849		4.0.0	Rel-4	Needed TFC in the TFCS for TDD	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010323	25.331	850	2	4.0.0	Rel-4	Correction to 1.28Mcps TDD RACH parameters and operation	approved	F	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010323	25.331	851		4.0.0	Rel-4	TFCI coding in case of 8PSK	approved	F	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	854		3.6.0	R99	Clarification of TFCS selection guidelines	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	855		4.0.0	Rel-4	Clarification of TFCS selection guidelines	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	860	1	3.6.0	R99	Clarification of Traffic Volume measurements	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010315	25.331	861		4.0.0	Rel-4	Clarification of Traffic Volume measurements	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	862	1	3.6.0	R99	CFN synchronisation problems at timing re-initialised hard handover	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	863		4.0.0	Rel-4	CFN synchronisation problems at timing re-initialised hard handover	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	865	2	3.6.0	R99	Corrections on UP Assistance Message Descriptions	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	866		4.0.0	Rel-4	Corrections on UP Assistance Message Descriptions	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	867	2	3.6.0	R99	Correction on Area Scope of SIB 15.3	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	868		4.0.0	Rel-4	Correction on Area Scope of SIB 15.3	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	871	1	3.6.0	R99	Correction to AICH power offset	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010315	25.331	872		4.0.0	Rel-4	Correction to AICH power offset	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010324	25.331	873		4.0.0	Rel-5	Introduction of UTRA FDD 1800 MHz frequency band	postponed	B		Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	874		3.6.0	R99	Clarification on IE 'Downlink rate matching restriction information'	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	875		4.0.0	Rel-4	Clarification on IE 'Downlink rate matching restriction information'	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	876	1	3.6.0	R99	Corrections on Tabular/ASN.1	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	877		4.0.0	Rel-4	Corrections on Tabular/ASN.1	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	878	2	3.6.0	R99	Corrections on Tabular and ASN.1 inconsistencies	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	879		4.0.0	Rel-4	Corrections on Tabular and ASN.1 inconsistencies	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	880	1	3.6.0	R99	Editorial corrections on Tabular and ASN.1 inconsistencies	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	881		4.0.0	Rel-4	Editorial corrections on Tabular and ASN.1 inconsistencies	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	882	1	3.6.0	R99	UE Positioning corrections to ASN.1 and tabular	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	883		4.0.0	Rel-4	UE Positioning corrections to ASN.1 and tabular	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	884	1	3.6.0	R99	Corrections to resolve inconsistencies between Tabular and ASN.1	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	885		4.0.0	Rel-4	Corrections to resolve inconsistencies between Tabular and ASN.1	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	886	1	3.6.0	R99	UE positioning OTDOA Neighbour Cell Info	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	887		4.0.0	Rel-4	UE positioning OTDOA Neighbour Cell Info	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2

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RP-010316	25.331	888	3	3.6.0	R99	DRAC corrections	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	889		4.0.0	Rel-4	DRAC corrections	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	892	1	3.6.0	R99	ASN.1 Correction of IE TFCS ID	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	893		4.0.0	Rel-4	ASN.1 Correction of IE TFCS ID	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	894		3.6.0	R99	Correction of IE IODE range in AGPS Positioning	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010316	25.331	895		4.0.0	Rel-4	Correction of IE IODE range in AGPS Positioning	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	896		3.6.0	R99	Correction to BurstModeParameters in IPDL	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	897		4.0.0	Rel-4	Correction to BurstModeParameters in IPDL	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	898	1	3.6.0	R99	Corrections on inconsistencies between Tabular and ASN.1	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	899		4.0.0	Rel-4	Corrections on inconsistencies between Tabular and ASN.1	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	900		3.6.0	R99	Naming of message abstract types in ASN.1	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	901		4.0.0	Rel-4	Naming of message abstract types in ASN.1	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010323	25.331	902	1	4.0.0	Rel-4	Structure and naming of information elements	approved	F	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	903		3.6.0	R99	Information elements outside the extension container	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	904		4.0.0	Rel-4	Information elements outside the extension container	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	905		3.6.0	R99	Correction concerning DRX cycle upon inter-RAT change towards UTRAN	approved	F	3.7.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010317	25.331	906		4.0.0	Rel-4	Correction concerning DRX cycle upon inter-RAT change towards UTRAN	approved	A	4.1.0	Radio Resource Control (RRC) Protocol Specification	R2
RP-010370	25.401	024		3.6.0	R99	Correction on the figure ‘UTRAN Architecture’	approved	F	3.7.0	UTRAN Overall Description	R3
RP-010370	25.401	025		4.0.0	Rel-4	Correction on the figure ‘UTRAN Architecture’	approved	A	4.1.0	UTRAN Overall Description	R3
RP-010389	25.401	026		4.0.0	Rel-4	Rel4 only changes based on R3-011195	approved	F	4.1.0	UTRAN Overall Description	R3
RP-010370	25.401	027	1	3.6.0	R99	PLMN Identity	approved	F	3.7.0	UTRAN Overall Description	R3
RP-010370	25.401	028	1	4.0.0	Rel-4	PLMN Identity	approved	A	4.1.0	UTRAN Overall Description	R3
RP-010389	25.401	029		4.0.0	Rel-4	Removal of Release dependency for the TNL	approved	F	4.1.0	UTRAN Overall Description	R3
RP-010403	25.401	030	1	4.0.0	Rel-5	Proposed draft CR to 25.401 on showing the A-GPS SMLC	approved	F	5.0.0	UTRAN Overall Description	R3
RP-010370	25.401	031		3.6.0	R99	Separation between Logical Nodes and physical Network Elements	approved	F	3.7.0	UTRAN Overall Description	R3
RP-010370	25.401	032		4.0.0	Rel-4	Separation between Logical Nodes and physical Network Elements	approved	A	4.1.0	UTRAN Overall Description	R3
RP-010371	25.402	015	2	3.5.0	R99	Additional requirement for timing behaviour of NodeB	approved	F	3.6.0	Synchronisation in UTRAN Stage 2	R3

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RP-010371	25.402	018	1	3.5.0	R99	Network Synchronisation aspects clarification	approved	F	3.6.0	Synchronisation in UTRAN Stage 2	R3
RP-010371	25.402	019		4.0.0	Rel-4	Network Synchronisation aspects clarification	approved	A	4.1.0	Synchronisation in UTRAN Stage 2	R3
RP-010371	25.402	020		4.0.0	Rel-4	Additional requirement for timing behaviour of NodeB	approved	A	4.1.0	Synchronisation in UTRAN Stage 2	R3
RP-010390	25.402	021		4.0.0	Rel-4	Frequency Acquisition phase for Cell Synchronisation for TDD	approved	F	4.1.0	Synchronisation in UTRAN Stage 2	R3
RP-010390	25.402	022		4.0.0	Rel-4	Correction on TDD Radio Interface Synchronistion	approved	F	4.1.0	Synchronisation in UTRAN Stage 2	R3
RP-010371	25.402	023		3.5.0	R99	Incorrect Figure references in FDD Radio Interface Synchronisation	approved	F	3.6.0	Synchronisation in UTRAN Stage 2	R3
RP-010371	25.402	024		4.0.0	Rel-4	Incorrect Figure references in FDD Radio Interface Synchronisation	approved	A	4.1.0	Synchronisation in UTRAN Stage 2	R3
RP-010372	25.410	017		3.3.0	R99	RANAP message in Connection Refusal	approved	F	3.4.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-010372	25.410	018		4.0.0	Rel-4	RANAP message in Connection Refusal	approved	A	4.1.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-010391	25.410	022		4.0.0	Rel-4	Iu UP initialisation direction	approved	F	4.1.0	UTRAN Iu Interface: General Aspects and Principles	R3
RP-010373	25.411	005		3.4.0	R99	Network Synchronisation aspects clarification	approved	F	3.5.0	UTRAN Iu interface Layer 1	R3
RP-010373	25.411	006		4.0.0	Rel-4	Network Synchronisation aspects clarification	approved	A	4.1.0	UTRAN Iu interface Layer 1	R3
RP-010373	25.411	007	1	3.4.0	R99	Layer 1 references	approved	F	3.5.0	UTRAN Iu interface Layer 1	R3
RP-010373	25.411	008	1	4.0.0	Rel-4	Layer 1 references	approved	A	4.1.0	UTRAN Iu interface Layer 1	R3
RP-010454	25.413	276	2	3.5.0	R99	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	277	1	4.0.0	Rel-4	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	278		3.5.0	R99	Reporting of Logical Error with Error Indication Procedure	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	279		4.0.0	Rel-4	Reporting of Logical Error with Error Indication Procedure	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	280		3.5.0	R99	Clarification of IEs order rule	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	281		4.0.0	Rel-4	Clarification of IEs order rule	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	284		3.5.0	R99	CN Domain Indicator in ERROR INDICATION	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	285		4.0.0	Rel-4	CN Domain Indicator in ERROR INDICATION	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	286		3.5.0	R99	Correction to RAB Release Procedures description	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	287		4.0.0	Rel-4	Correction to RAB Release Procedures description	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	288		3.5.0	R99	TRELOCalloc_usage	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	289		4.0.0	Rel-4	TRELOCalloc_usage	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	290		3.5.0	R99	Relocation Resource Allocation in case of Cell/URA Update	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	291		4.0.0	Rel-4	Relocation Resource Allocation in case of Cell/URA Update	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	293	1	3.5.0	R99	Global RNC ID IE in INITIAL UE MESSAGE	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	294	1	4.0.0	Rel-4	Global RNC ID IE in INITIAL UE MESSAGE	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	295	2	3.5.0	R99	CN Domain Indicator in OVERLOAD message	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	296	3	4.0.0	Rel-4	CN Domain Indicator in OVERLOAD message	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	298	1	3.5.0	R99	Reference to superseeded versions of ASN.1 documents	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010454	25.413	299	1	4.0.0	Rel-4	Reference to superseeded versions of ASN.1 documents	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	300		3.5.0	R99	Correction of tabular format for Message Type IE	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3

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RP-010375	25.413	301		4.0.0	Rel-4	Correction of tabular format for Message Type IE	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010392	25.413	303		4.0.0	Rel-4	Clarifications to renegotiation during relocation	approved	F	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	306	1	3.5.0	R99	Aligning tabular format and ASN.1 (ENUMERATED type)	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	307	1	4.0.0	Rel-4	Aligning tabular format and ASN.1 (ENUMERATED type)	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	308	3	3.5.0	R99	Ranap criticality	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	309	3	4.0.0	Rel-4	Ranap criticality	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	314	2	3.5.0	R99	Partial Contexts transfer	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	315	2	4.0.0	Rel-4	Partial Contexts transfer	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	316	1	3.5.0	R99	Wide Alignment between Tabular format and ASN.1 (criticality levels)	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	317	1	4.0.0	Rel-4	Wide Alignment between Tabular format and ASN.1 (criticality levels)	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	318	1	3.5.0	R99	Correct term to refer to a MCC+MNC combination is PLMN identity.	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	319	1	4.0.0	Rel-4	Correct term to refer to a MCC+MNC combination is PLMN identity.	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010392	25.413	320	1	4.0.0	Rel-4	RAB odify request missing from message tabular format	approved	F	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	322		3.5.0	R99	Stop reporting clarification	approved	F	3.6.0	UTRAN Iu interface RANAP signalling	R3
RP-010375	25.413	323		4.0.0	Rel-4	Stop reporting clarification	approved	A	4.1.0	UTRAN Iu interface RANAP signalling	R3
RP-010376	25.415	052	2	3.6.0	R99	In-sequence delivery requirement	approved	F	3.7.0	UTRAN Iu interface user plane protocols	R3
RP-010376	25.415	061		4.0.0	Rel-4	In-sequence delivery requirement	approved	A	4.1.0	UTRAN Iu interface user plane protocols	R3
RP-010393	25.415	063		4.0.0	Rel-4	Initial Rate Control clarification	approved	F	4.1.0	UTRAN Iu interface user plane protocols	R3
RP-010393	25.415	064		4.0.0	Rel-4	TrFO clarifications and corrections	approved	F	4.1.0	UTRAN Iu interface user plane protocols	R3
RP-010376	25.415	065	2	3.6.0	R99	UP initialisation procedure	approved	F	3.7.0	UTRAN Iu interface user plane protocols	R3
RP-010376	25.415	066	2	4.0.0	Rel-4	UP initialisation procedure	approved	A	4.1.0	UTRAN Iu interface user plane protocols	R3
RP-010377	25.419	035	1	3.4.0	R99	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	036	1	4.0.0	Rel-4	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	037		3.4.0	R99	Reporting of Logical Error with Error Indication Procedure	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	038		4.0.0	Rel-4	Reporting of Logical Error with Error Indication Procedure	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	039		3.4.0	R99	Clarification of IEs order rule	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	040		4.0.0	Rel-4	Clarification of IEs order rule	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	041		3.4.0	R99	Corrections to the SABP	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	042		4.0.0	Rel-4	Corrections to the SABP	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	043	1	4.0.0	Rel-4	Alignment of 25.419 (v4.0.0) with 23.041	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	044	1	4.0.0	Rel-4	Changing of 'Broadcast Message Content ' IE maximum size	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	045	1	3.4.0	R99	Alignment of 25.419 (v3.4.0) with 23.041	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3

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RP-010377	25.419	046	1	3.4.0	R99	Changing of 'Broadcast Message Content ' IE maximum	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	047		3.4.0	R99	Corrections in 25.419 due to terminology of PLMN Identity as requested by SA1	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	048		4.0.0	Rel-4	Corrections in 25.419 due to terminology of PLMN Identity as requested by SA1	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	049		3.4.0	R99	Reference to superseded versions of ASN.1 documents	approved	F	3.5.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010377	25.419	050		4.0.0	Rel-4	Reference to superseded versions of ASN.1 documents	approved	A	4.1.0	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3
RP-010378	25.423	340	3	3.5.0	R99	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	341	2	4.0.0	Rel-4	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	342		3.5.0	R99	Reporting of Logical Error with Error Indication Procedure	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	343		4.0.0	Rel-4	Reporting of Logical Error with Error Indication Procedure	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	344		3.5.0	R99	Clarification of IEs order rule	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	345		4.0.0	Rel-4	Clarification of IEs order rule	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	346		3.5.0	R99	Modification of RL-Setup and RL-Addition procedure text	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	347		4.0.0	Rel-4	Modification of RL-Setup and RL-Addition procedure text	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	348		3.5.0	R99	Clarification on Procedure Parallelism for RL Restoration	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	349		4.0.0	Rel-4	Clarification on Procedure Parallelism for RL Restoration	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	350	2	3.5.0	R99	Measurement reporting clarification	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	351	2	4.0.0	Rel-4	Measurement reporting clarification	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	352		3.5.0	R99	Clarification of the CM Configuration Change CFN IE	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	353		4.0.0	Rel-4	Clarification of the CM Configuration Change CFN IE	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	354		3.5.0	R99	Correction to the UMTS neighbouring cell handling	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	355		4.0.0	Rel-4	Correction to the UMTS neighbouring cell handling	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	356		3.5.0	R99	Clarification of the Initial DL Tx Power in RL Addition	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	357		4.0.0	Rel-4	Clarification of the Initial DL Tx Power in RL Addition	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	358		3.5.0	R99	Criticality setting of Neighbouring GSM Cell Information	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010378	25.423	359		4.0.0	Rel-4	Criticality setting of Neighbouring GSM Cell Information	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	360		3.5.0	R99	Corrections on Dedicated Measurement Initiation Request	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	361		4.0.0	Rel-4	Corrections on Dedicated Measurement Initiation Request	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	362		3.5.0	R99	Corrections to the P-CPICH Power Handling	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	363		4.0.0	Rel-4	Corrections to the P-CPICH Power Handling	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	364		3.5.0	R99	Addition of missing IEs in RL Setup and RL Addition	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	365		4.0.0	Rel-4	Addition of missing IEs in RL Setup and RL Addition	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	366		3.5.0	R99	Cell in CTrCh Resource Initialisation	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	367		4.0.0	Rel-4	Cell in CTrCh Resource Initialisation	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	368		3.5.0	R99	Alignment of Neighbouring GSM Cell Information with RRC	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	369		4.0.0	Rel-4	Alignment of Neighbouring GSM Cell Information with RRC	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	372		4.0.0	Rel-4	Correction of Neighbouring TDD Cell Measurement Info	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	373		4.0.0	Rel-4	Removal syntax errors from Rel.4 RNSAP ASN.1	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	374		4.0.0	Rel-4	Clean-up of Rate Control on DCHs	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3

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RP-010394	25.423	375	1	4.0.0	Rel-4	Allowed combination of the measurement and event types	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	376		4.0.0	Rel-4	DSCH Power Control Improvement	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	377	1	3.5.0	R99	Correction of the text for ToAWE IE	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	378	1	4.0.0	Rel-4	Correction of the text for ToAWE IE	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	379		4.0.0	Rel-4	Correction of a wrong CR Implementation	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	380		4.0.0	Rel-4	Correction of the Information Exchange procedures	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	381	1	3.5.0	R99	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	382		4.0.0	Rel-4	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	387	1	3.5.0	R99	Measurement clarifications	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	388	1	4.0.0	Rel-4	Measurement clarifications	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	389		3.5.0	R99	Clarification on DL Power reference	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	390		4.0.0	Rel-4	Clarification on DL Power reference	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	391	2	4.0.0	Rel-4	Alignment of LCR TDD to the latest R99 modifications	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	393	1	4.0.0	Rel-4	Uplink power control for 1.28 Mcps TDD	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	394	1	3.5.0	R99	RNSAP general corrections	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010379	25.423	395	1	4.0.0	Rel-4	RNSAP general corrections	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	398		3.5.0	R99	Correct term to refer to a MCC+MNC combination is PLMN identity.	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	399		4.0.0	Rel-4	Correct term to refer to a MCC+MNC combination is PLMN identity.	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	402	3	3.5.0	R99	Cell Reserved for operator use	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	403	3	4.0.0	Rel-4	Cell Reserved for operator use	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	404		3.5.0	R99	Correction to the critically information of DL Code Information in tabular format	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	405		4.0.0	Rel-4	Correction to the critically information of DL Code Information in tabular format	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	406		3.5.0	R99	Alignment the range of TGPRC with RRC	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	407		4.0.0	Rel-4	Alignment the range of TGPRC with RRC	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	408	1	3.5.0	R99	Addition of S-RNTI and D-RNTI to the ERROR INDICATION message	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	409	1	4.0.0	Rel-4	Addition of S-RNTI and D-RNTI to the ERROR INDICATION message	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	410		3.5.0	R99	Reference to superseded versions of ASN.1 documents	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	411		4.0.0	Rel-4	Reference to superseded versions of ASN.1 documents	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010394	25.423	412		4.0.0	Rel-4	Correct the CR implementation error in the ASN.1	approved	F	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	413	2	3.5.0	R99	Alignment of Conditional Presence with RAN3 Specification Principles	approved	F	3.6.0	UTRAN Iur interface RNSAP signalling	R3
RP-010380	25.423	414	2	4.0.0	Rel-4	Alignment of Conditional Presence with RAN3 Specification Principles	approved	A	4.1.0	UTRAN Iur interface RNSAP signalling	R3
RP-010395	25.427	047		4.0.0	Rel-4	Identify some parameter only used in 3.84Mcps TDD	approved	F	4.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-010381	25.427	049		3.6.0	R99	CRCI Inclusion in the UL Data Frames	approved	F	3.7.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-010381	25.427	050		4.0.0	Rel-4	CRCI Inclusion in the UL Data Frames	approved	A	4.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3

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RP-010381	25.427	053	1	3.6.0	R99	UP Synchronisation for a Radio Link	approved	F	3.7.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-010381	25.427	054	1	4.0.0	Rel-4	UP Synchronisation for a Radio Link	approved	A	4.1.0	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3
RP-010382	25.430	018		3.5.0	R99	Clarification of Common Channel logical model	approved	F	3.6.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010382	25.430	019		4.0.0	Rel-4	Clarification of Common Channel logical model	approved	A	4.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010382	25.430	020		3.5.0	R99	Traffic Management in Common Channels	approved	F	3.6.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010382	25.430	021		4.0.0	Rel-4	Traffic Management in Common Channels	approved	A	4.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010382	25.430	022		3.5.0	R99	Alignment of Cell description to NBAP	approved	F	3.6.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010382	25.430	023		4.0.0	Rel-4	Alignment of Cell description to NBAP	approved	A	4.1.0	UTRAN Iub Interface: General Aspects and Principles	R3
RP-010383	25.433	389	2	3.5.0	R99	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	390	2	4.0.0	Rel-4	Corrections and introduction of an appendix for usage of Criticality Diagnostics IE	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	391		3.5.0	R99	Reporting of Logical Error with Error Indication Procedure	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	392		4.0.0	Rel-4	Reporting of Logical Error with Error Indication Procedure	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	393		3.5.0	R99	Clarification of IEs order rule	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	394		4.0.0	Rel-4	Clarification of IEs order rule	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	395		3.5.0	R99	Modification of RL-Setup and RL-Addition procedure text	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	396		4.0.0	Rel-4	Modification of RL-Setup and RL-Addition procedure text	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	397		3.5.0	R99	Clarification on Procedure Parallelism for RL Restoration	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	398		4.0.0	Rel-4	Clarification on Procedure Parallelism for RL Restoration	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	399	2	3.5.0	R99	Measurement reporting clarification	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	400	2	4.0.0	Rel-4	Measurement reporting clarification	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	401		3.5.0	R99	Clarification of the CM Configuration Change CFN IE	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	402		4.0.0	Rel-4	Clarification of the CM Configuration Change CFN IE	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	403	1	3.5.0	R99	Clarification of DL Power Applicability	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	404	1	4.0.0	Rel-4	Clarification of DL Power Applicability	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	405		3.5.0	R99	Ambiguity in meaning of DL power IE	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	406		4.0.0	Rel-4	Ambiguity in meaning of DL power IE	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	407		3.5.0	R99	Clarification between ddMode and ALLNBCC measurements	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010383	25.433	408		4.0.0	Rel-4	Clarification between ddMode and ALLNBCC measurements	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	411		3.5.0	R99	Correction to the range of Successful RL Information in the RADIO LINK ADDITION FAILURE	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	412		4.0.0	Rel-4	Correction to the range of Successful RL Information in the RADIO LINK ADDITION FAILURE	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	413		4.0.0	Rel-4	Correction of Neighbouring TDD Cell Measurement Info	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	414		4.0.0	Rel-4	Removal syntax errors from Rel.4 NBAP ASN.1	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	415		4.0.0	Rel-4	Correction of NBAP Cell Sync function for TDD	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3

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RP-010396	25.433	416		4.0.0	Rel-4	Frequency Acquisition for Cell Synchronisation for TDD	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	417		4.0.0	Rel-4	Modification of the abbreviation list	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	418	1	4.0.0	Rel-4	Allowed combination of the measurement and event types	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	419		4.0.0	Rel-4	DSCH Power Control Improvement	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	420	1	3.5.0	R99	Clarification on the System Information Update procedure (Information Element Functional Definition)	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	421	1	4.0.0	Rel-4	Clarification on the System Information Update procedure (Information Element Functional Definition)	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	422	1	3.5.0	R99	Node B resources model at common transport channel reconfiguration	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	423	1	4.0.0	Rel-4	Node B resources model at common transport channel reconfiguration	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	426	1	3.5.0	R99	Correction of the text for ToAWE IE	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	427	1	4.0.0	Rel-4	Correction of the text for ToAWE IE	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	430		3.5.0	R99	Corrections on Dedicated Measurement Initiation Request message	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	431		4.0.0	Rel-4	Corrections on Dedicated Measurement Initiation Request message	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	432		3.5.0	R99	Clarification to the Common Transport Channel Setup procedure	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	433		4.0.0	Rel-4	Clarification to the Common Transport Channel Setup procedure	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	436		3.5.0	R99	Misalignment between tabular Format and ASN.1 in NBAP	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	437		4.0.0	Rel-4	Misalignment between tabular Format and ASN.1 in NBAP	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	438	1	3.5.0	R99	Initial DL Power After addition of CCTrCH in Synchronised Reconfiguration	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	439	1	4.0.0	Rel-4	Initial DL Power After addition of CCTrCH in Synchronised Reconfiguration	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	440	1	3.5.0	R99	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	441		4.0.0	Rel-4	Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	442		3.5.0	R99	Order of elements in Bitstrings	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010384	25.433	443		4.0.0	Rel-4	Order of elements in Bitstrings	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	445		3.5.0	R99	Alignmrnt to the WG1 definmition of DL power averaging window size.	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	448	1	3.5.0	R99	Measurement clarifications	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	449	1	4.0.0	Rel-4	Measurement clarifications	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	450	2	4.0.0	Rel-4	Alignment of LCR TDD to the latest R99 modifications	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	451	1	4.0.0	Rel-4	Corrections to TDD 1.28 Mcps RACH parameters	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	452	2	4.0.0	Rel-4	Uplink power control for 1.28 Mcps TDD	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	453	2	4.0.0	Rel-4	Introduction of Dedicated Measurements on PUSCH	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	454	1	4.0.0	Rel-4	Removal of the timeslot in the Cell Setup Request TDD message for LCR TDD	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010396	25.433	455	1	3.5.0	R99	IB Type correction	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	456	1	4.0.0	Rel-4	IB Type correction	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	461		3.5.0	R99	Alignment the range of TGPRC with RRC	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3

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RP-010385	25.433	462		4.0.0	Rel-4	Alignment the range of TGPRC with RRC	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	463	1	3.5.0	R99	Correction to the Error Indication Procedure	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	464	1	4.0.0	Rel-4	Correction to the Error Indication Procedure	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	465	1	4.0.0	Rel-4	Addition of “ReportCharacteristicsType-OnModification” to 9.3.4	approved	F	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	466	2	3.5.0	R99	Alignment of Conditional Presence with RAN3 Specification Principles	approved	F	3.6.0	UTRAN Iub interface NBAP signalling	R3
RP-010385	25.433	467	3	4.0.0	Rel-4	Alignment of Conditional Presence with RAN3 Specification Principles	approved	A	4.1.0	UTRAN Iub interface NBAP signalling	R3
RP-010397	25.434	010		4.0.0	Rel-4	Correction of reference number to Q.2630.1 to Q.2630.2	approved	F	4.1.0	UTRAN Iub interface data transport & transport signalling for CCH data streams	R3
RP-010386	25.435	040		3.6.0	R99	Clarification of Timing Deviation for RACH/USCH	approved	F	3.7.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-010386	25.435	041		4.0.0	Rel-4	Clarification of Timing Deviation for RACH/USCH	approved	A	4.1.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-010398	25.435	042		4.0.0	Rel-4	Identify some parameter only used in 3.84Mcps TDD	approved	F	4.1.0	UTRAN Iub interface user plane protocols for CCH data streams	R3
RP-010399	25.850	001		4.0.0	Rel-4	TDD related clarifications for UE Positioning	approved	F	4.1.0	UE positioning in UTRAN Iub/Iur protocol aspects	R3
RP-010318	25.921	014		3.3.0	R99	Clean up	approved	F	3.4.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	015		4.0.0	Rel-4	Clean up	approved	A	4.1.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	016		3.3.0	R99	Usage of spare values in future releases	approved	F	3.4.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	017		4.0.0	Rel-4	Usage of spare values in future releases	approved	A	4.1.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	018	1	3.3.0	R99	Structure and naming of extensions in ASN.1	approved	F	3.4.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	019		4.0.0	Rel-4	Structure and naming of extensions in ASN.1	approved	A	4.1.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	020		3.3.0	R99	Addition of Recommendations for Extensions in RANAP, RNSAP, NBAP, and SABP	approved	F	3.4.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	021		4.0.0	Rel-4	Addition of Recommendations for Extensions in RANAP, RNSAP, NBAP, and SABP	approved	A	4.1.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	022		3.3.0	R99	Clean-up with regard to RAN WG3 Practise of Specifying Control Plane Protocols	approved	F	3.4.0	Guidelines and principles for protocol description and error handling	R2
RP-010318	25.921	023		4.0.0	Rel-4	Clean-up with regard to RAN WG3 Practise of Specifying Control Plane Protocols	approved	A	4.1.0	Guidelines and principles for protocol description and error handling	R2
RP-010387	25.931	009		3.3.0	R99	Correction to RAB Release Procedures	approved	F	3.4.0	UTRAN Functions, examples on signalling procedures	R3
RP-010387	25.931	010		4.0.0	Rel-4	Correction to RAB Release Procedures	approved	A	4.1.0	UTRAN Functions, examples on signalling procedures	R3
RP-010357	25.942	1		3.0.0	R99	Clarification to TDD pico - FDD macro interference simulation results	approved	F	3.1.0	RF system scenarios	R4
RP-010340	25.944	007	-	3.4.1	R99	Correction of TTI for PCH	approved	F	3.5.0	Channel coding and multiplexing examples	R1

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RP-010340	25.944	008	-	4.0.1	Rel-4	Correction of TTI for PCH (3.84 Mcps TDD, Rel-4)	approved	A	4.1.0	Channel coding and multiplexing examples	R1
RP-010340	25.944	009	-	4.0.1	Rel-4	Correction of TTI for PCH	approved	A	4.1.0	Channel coding and multiplexing examples	R1
RP-010319	34.109	007		3.3.0	R99	Clarification to Loopback Delay requirement & BTFD in TDD mode	approved	F	3.4.0	Logical Test Interface (TDD and FDD)	R2
RP-010319	34.109	008		4.0.0	Rel-4	Clarification to Loopback Delay requirement & BTFD in TDD mode	approved	A	4.1.0	Logical Test Interface (TDD and FDD)	R2
RP-010319	34.109	009		3.3.0	R99	Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers	revised	F		Logical Test Interface (TDD and FDD)	R2
RP-010481	34.109	009	1	3.3.0	R99	Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers	approved	F		Logical Test Interface (TDD and FDD)	R2
RP-010319	34.109	010		4.0.0	Rel-4	Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers	revised	A		Logical Test Interface (TDD and FDD)	R2
RP-010481	34.109	010	1	4.0.0	Rel-4	Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers	approved	A		Logical Test Interface (TDD and FDD)	R2
591/94	02.41	A001			R96	Operator Determined Barring applicability to O/G and future calls	approved	2	5.0.0	Operator Determined Barring	1
591/94	02.41	A002			R96	New catagories for Operator Determined Barring for CF and interzone calls	approved	1	5.0.0	Operator Determined Barring	1
SP-010276	01.01	002		8.1.0	R99	Correction to list of specs	revised	F		GSM Release 1999 Specifications	SP
SP-010382	01.01	002	1	8.1.0	R99	Correction to list of specs	approved	F		GSM Release 1999 Specifications	SP
SP-010330	03.60	A205	1	6.8.0	R97	Using RAU procedure for MS RAC IE update	approved	F	6.9.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	03.60	A206	1	7.6.0	R98	Using RAU procedure for MS RAC IE update	approved	A	7.7.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010371	03.71	A023	3	7.5.0	R98	Correction of Inconsistent Text	rejected	F	7.6.0	Location services (LCS); Stage 2	S2
SP-010371	03.71	A024	3	8.1.0	R99	Correction of Inconsistent Text	rejected	A	8.2.0	Location services (LCS); Stage 2	S2
SP-010371	03.71	A025	1	7.5.0	R98	Correct reference of GAD shape	Approved	F	7.6.0	Location services (LCS); Stage 2	S2
SP-010371	03.71	A026	1	8.1.0	R99	Correct reference of GAD shape	Approved	A	8.2.0	Location services (LCS); Stage 2	S2
SP-010371	03.71	A027	1	7.5.0	R98	Privacy Check procedures for call related MT-LR	Approved	F	7.6.0	Location services (LCS); Stage 2	S2
SP-010371	03.71	A028	1	8.1.0	R99	Privacy Check procedures for call related MT-LR	Approved	A	8.2.0	Location services (LCS); Stage 2	S2
SP-010303	06.10	A010		4.2.1	2	Correction of Fig. 3.2	approved	F	4.3.0	Full Rate Speech Transcoding	S4
SP-010303	06.10	A011		5.2.1	R96	Correction of Fig. 3.2	approved	A	5.3.0	Full Rate Speech Transcoding	S4
SP-010303	06.10	A012		6.1.1	R97	Correction of Fig. 3.2	approved	A	6.2.0	Full Rate Speech Transcoding	S4
SP-010303	06.10	A013		7.1.0	R98	Correction of Fig. 3.2	approved	A	7.2.0	Full Rate Speech Transcoding	S4
SP-010303	06.10	A014		8.1.1	R99	Correction of Fig. 3.2	approved	A	8.2.0	Full Rate Speech Transcoding	S4
SP-010304	06.12	A001		4.0.4	2	Corrections of the formula for averaging Xmax	approved	F	4.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4
SP-010304	06.12	A002		5.0.1	R96	Corrections of the formula for averaging Xmax	approved	A	5.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4
SP-010304	06.12	A003		6.0.1	R97	Corrections of the formula for averaging Xmax	approved	A	6.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4
SP-010304	06.12	A004		7.0.1	R98	Corrections of the formula for averaging Xmax	approved	A	7.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4
SP-010304	06.12	A005		8.0.1	R99	Corrections of the formula for averaging Xmax	approved	A	8.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4

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SP-010273	21.101	005		3.3.0	R99	Correction to list of specs	revised	F		3rd Generation mobile system Release 1999 Specifications	SP
SP-010379	21.101	005	1	3.3.0	R99	Correction to list of specs	approved	F		3rd Generation mobile system Release 1999 Specifications	SP
SP-010274	21.102	001		4.0.0	Rel-4	Correction to list of specs	revised	F		3rd Generation mobile system Release 4 specifications	SP
SP-010380	21.102	001	1	4.0.0	Rel-4	Correction to list of specs	revised	F		3rd Generation mobile system Release 4 specifications	SP
SP-010396	21.102	001	2	4.0.0	Rel-4	Correction to list of specs	approved	F		3rd Generation mobile system Release 4 specifications	SP
SP-010256	21.905	008		4.2.0	Rel-4	Corrections to the vocabulary requested by RAN-4	Approved	F	4.3.0	3G Vocabulary	S1
SP-010256	21.905	009		4.2.0	Rel-4	CR to 21.905 on Definitions in 22.101 subscription and service provider	Approved	F	4.3.0	3G Vocabulary	S1
SP-010258	21.905	010		4.2.0	Rel-5	Addition of definition of Service Provider and Subscription. Modification of definition of Subscriber	Approved	D	5.0.0	3G Vocabulary	S1
SP-010264	22.001	006		4.1.1	Rel-4	Removal Bearer modification without pre-modification from 22.001	Approved	F	4.2.0	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1
SP-010257	22.002	013		4.1.0	Rel-4	Corrections to erroneous implementation of CRs SP-010039 and SP-010040 to 22.002.	Approved	F	4.2.0	Circuit Bearer Services Supported by a PLMN	S1
SP-010242	22.003	005		3.2.0	R99	Correction of applicability of Fax in R99	Approved	F	3.3.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
SP-010243	22.003	006		3.2.0	R99	Removal of Voice Group Service	Approved	F	3.3.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
SP-010243	22.003	007		4.1.0	Rel-4	Removal of Voice Group Service	Approved	A	4.2.0	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
SP-010244	22.011	024		3.4.0	R99	Partial PLMN access restriction	Approved	F	3.5.0	Service accessibility	S1
SP-010244	22.011	025		4.3.0	Rel-4	Partial PLMN access restriction	Approved	A	4.4.0	Service accessibility	S1
SP-010244	22.011	026		3.4.0	R99	Periodic Network Selection Attempt improvement	Approved	F	3.5.0	Service accessibility	S1
SP-010244	22.011	027		4.3.0	Rel-4	Periodic Network Selection Attempt improvement	Approved	A	4.4.0	Service accessibility	S1
SP-010244	22.011	028		3.4.0	R99	Default value for background scanning timer	Approved	F	3.5.0	Service accessibility	S1
SP-010244	22.011	029		4.3.0	Rel-4	Default value for background scanning timer	Approved	A	4.4.0	Service accessibility	S1
SP-010261	22.038	008		5.1.0	Rel-5	Indication of Key identification	Approved	B	5.2.0	SIM application toolkit (SAT); Stage 1	S1
SP-010249	22.078	101	1	3.7.0	R99	Clarification of PDP context QoS change notification to the CSE (CAMEL3)	Approved	F	3.8.0	CAMEL; Stage 1	S1
SP-010251	22.078	102		5.2.0	Rel-5	Enhance ATI operation (CAMEL4) - GPRS Location	Approved	B	5.3.0	CAMEL; Stage 1	S1
SP-010249	22.078	103	1	4.2.0	Rel-4	Clarification of PDP context QoS change notification to the CSE (CAMEL3)	Approved	A	4.3.0	CAMEL; Stage 1	S1
SP-010250	22.078	104		3.7.0	R99	CR 22.078-104 on "Clarification of CUG requirements" (CAMEL3, R99, Category F, version 3.7.0)	Approved	F	3.8.0	CAMEL; Stage 1	S1
SP-010250	22.078	105		4.2.0	Rel-4	CR 22.078-105 on "Clarification of CUG requirements" (CAMEL3, REL-4, Category A, version 4.1.0)	Approved	A	4.3.0	CAMEL; Stage 1	S1
SP-010250	22.078	106		5.2.0	Rel-5	CR 22.078-106 on "Clarification of CUG requirements" (CAMEL3, REL-5, Category A, version 5.2.0)	Approved	A	5.3.0	CAMEL; Stage 1	S1
SP-010251	22.078	107		5.2.0	Rel-5	Location information during an ongoing call (CAMEL4)	Approved	B	5.3.0	CAMEL; Stage 1	S1

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SP-010251	22.078	108		5.2.0	Rel-5	Clarification of CPH requirements (CAMEL4)	Approved	F	5.3.0	CAMEL; Stage 1	S1
SP-010251	22.078	109		5.2.0	Rel-5	Inclusion of ODB data in ATM	Approved	B	5.3.0	CAMEL; Stage 1	S1
SP-010251	22.078	110		5.2.0	Rel-5	CR 22.078-xxx on "Clarification on creating a new call" CAMEL4, REL-5, Category F, version 5.2.0)	Approved	F	5.3.0	CAMEL; Stage 1	S1
SP-010251	22.078	111		5.2.0	Rel-5	Introduction of the new CSI for the mobility management for the GPRS subscriber	Approved	C	5.3.0	CAMEL; Stage 1	S1
SP-010259	22.082	003		4.0.0	Rel-4	Clarification of CPHS CFU Indication	Approved	C	4.1.0	Call Forwarding (CF) Supplementary Services; Stage 1	S1
SP-010242	22.100	030		3.6.0	R99	Request for clarification on the fax service in UMTS R99	Rejected	F	3.7.0	UMTS Phase 1	S1
SP-010262	22.101	071		4.3.0	Rel-4	Replacement of references to 23.121 for R4 onwards	Approved	F	4.4.0	UMTS Service principles	S1
SP-010262	22.101	072		5.2.0	Rel-5	Replacement of references to 23.121 for R4 onwards	Approved	A	5.3.0	UMTS Service principles	S1
SP-010258	22.101	073		5.2.0	Rel-5	Subscription and Provisioning	Approved	C	5.3.0	UMTS Service principles	S1
SP-010255	22.101	074		4.3.0	Rel-4	Addition of a Streaming paragraph	Approved	F	4.4.0	UMTS Service principles	S1
SP-010255	22.101	075		5.2.0	Rel-5	Addition of a Streaming paragraph	Approved	A	5.3.0	UMTS Service principles	S1
SP-010263	22.101	076		4.3.0	Rel-4	CS Multimedia fallback to speech	Approved	F	4.4.0	UMTS Service principles	S1
SP-010263	22.101	077		5.2.0	Rel-5	CS Multimedia fallback to speech	Approved	A	5.3.0	UMTS Service principles	S1
SP-010252	22.101	078		3.12.0	R99	Re-introduction of Service Provider Name Indication in Release 99	Approved	F	3.13.0	UMTS Service principles	S1
SP-010253	22.101	079		4.3.0	Rel-4	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	Approved	F	4.4.0	UMTS Service principles	S1
SP-010253	22.101	080		5.2.0	Rel-5	Clarification of PLMN Name Indication and Service Provider Name Indication feature.	Approved	A	5.3.0	UMTS Service principles	S1
SP-010254	22.101	081		4.3.0	Rel-4	Removal of Service Provider Name graphic format from Rel-4	Approved	F	4.4.0	UMTS Service principles	S1
SP-010264	22.105	031		4.1.0	Rel-4	Removal of features due to deletion of the workitem on “Bearer modification without pre-notification”.	Approved	F	4.2.0	Services & Service capabilities	S1
SP-010260	22.115	006		5.0.0	Rel-5	Introduction of online charging for prepaid services	Approved	B	5.1.0	Service Aspects Charging and billing	S1
SP-010247	22.121	020		5.0.0	Rel-5	Changes to TS 22.121 Release 5 to update Release 5 TS	Approved	F	5.1.0	Provision of Services in UMTS - The Virtual Home Environment; Stage 1	S1
SP-010248	22.127	009		4.1.0	Rel-4	Detailed requirements for transaction history retrieval	Approved	F	4.2.0	Service Requirement for the Open Services Access (OSA); Stage 1	S1
SP-010248	22.127	010		4.1.0	Rel-5	CR on Decoupling the OSA API	Approved	C	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1	S1
SP-010248	22.127	011		4.1.0	Rel-4	Terminal capabilities	Approved	F	4.2.0	Service Requirement for the Open Services Access (OSA); Stage 1	S1
SP-010248	22.127	012		4.1.0	Rel-5	Introduction of OSA support to enable Policy Management	Approved	B	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1	S1
SP-010248	22.127	013		4.1.0	Rel-5	De-Registration Function	Approved	B	5.0.0	Service Requirement for the Open Services Access (OSA); Stage 1	S1
SP-010264	22.129	018		4.2.0	Rel-4	Bearer modification without pre-modification	Approved	F	4.3.0	Handover Requirements between UMTS and GSM or other Radio Systems	S1
SP-010245	22.129	019		4.2.0	Rel-4	Inter PLMN handover	Approved	F	4.3.0	Handover Requirements between UMTS and GSM or other Radio Systems	S1
SP-010246	22.228	002		5.1.0	Rel-5	CR 22.228 - Capability of the IM CN Subsystem to present the identity of connected-to party	Approved	C	5.2.0	IP multimedia subsystem; Stage 1	S1
SP-010246	22.228	003		5.1.0	Rel-5	CR to 22.228 on Redirection of IP Multimedia Sessions	Approved	C	5.2.0	IP multimedia subsystem; Stage 1	S1

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SP-010329	23.002	037	1	5.2.0	Rel-5	HSS / HLR structuring	Approved	C	5.3.0	Network Architecture	S2
SP-010329	23.002	051	3	5.2.0	Rel-5	Addition of GTT Specific sntities	Approved	B	5.3.0	Network Architecture	S2
SP-010329	23.002	052	1	4.2.0	Rel-4	Addition of Radio Access Technologies	Approved	F	4.3.0	Network Architecture	S2
SP-010329	23.002	053	1	5.2.0	Rel-5	Addition of Radio Access Technologies	Approved	A	5.3.0	Network Architecture	S2
SP-010329	23.002	061	1	4.2.0	Rel-4	Clarification of the role of the SGWs	Approved	F	4.3.0	Network Architecture	S2
SP-010329	23.002	062	1	5.2.0	Rel-5	Clarification of the role of the SGWs	Approved	A	5.3.0	Network Architecture	S2
SP-010330	23.060	221	1	4.0.0	Rel-4	Specification of Relocation Cancel procedure	Approved	B	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	222	1	3.7.0	R99	Forbid usage of TFT in case of virtual dial-up access with PPP frame tunneling in GGSN	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	223	1	4.0.0	Rel-4	Forbid usage of TFT in case of virtual dial-up access with PPP frame tunneling in GGSN	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	224	1	3.7.0	R99	Data forwarding during 3G RAU in PMM CONNECTED state	postponed	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	225		4.0.0	Rel-4	Data forwarding during 3G RAU in PMM CONNECTED state	postponed	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	229	1	3.7.0	R99	Clarifications to Handling the user data during the SRNS Relocation Procedure	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	230	1	4.0.0	Rel-4	Support of PS realtime relocation in 23.060	Approved	F	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	231	1	4.0.0	Rel-4	Clarifications to Handling the user data during the SRNS Relocation Procedure	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	233		4.0.0	Rel-4	Update of Control Plane protocol architecture to align with 29.202	approved	F	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	234		3.7.0	R99	Specification of Relocation Cancel procedure	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	236		3.7.0	R99	Handling of charging characteristics for roaming users	Approved	F	3.8.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010330	23.060	237		4.0.0	Rel-4	Handling of charging characteristics for roaming users	Approved	A	4.1.0	General Packet Radio Service (GPRS) Service description; Stage 2	S2
SP-010331	23.107	047	3	4.0.0	Rel-4	Mitigation of bandwidth consumption attacks	Approved	D	4.1.0	Quality of Service, Concept and Architecture	S2
SP-010331	23.107	048	3	5.0.0	Rel-5	Mitigation of bandwidth consumption attacks	Approved	A	5.1.0	Quality of Service, Concept and Architecture	S2
SP-010332	23.127	025		3.3.0	R99	Adding transport examples in addition to CORBA	Approved	F	3.4.0	Virtual Home Environment; Stage 2	S2
SP-010332	23.127	026		4.1.0	Rel-4	Adding transport examples in addition to CORBA	Approved	A	4.2.0	Virtual Home Environment; Stage 2	S2
SP-010371	23.171	018	1	3.3.0	R99	LCS location notification messages	Approved	F	3.4.0	Functional stage 2 description of location services in UMTS	S2
SP-010333	23.221	005	1	4.0.0	Rel-4	Removal of Editor's Notes	Approved	F	4.1.0	Architectural requirements	S2
SP-010333	23.221	006	1	5.0.0	Rel-5	Removal of Editor's Notes	Approved	A	5.1.0	Architectural requirements	S2
SP-010333	23.221	007	1	4.0.0	Rel-4	Clarification of text on Location Area Update	Approved	F	4.1.0	Architectural requirements	S2
SP-010333	23.221	008	1	5.0.0	Rel-5	Clarification of text on Location Area Update	Approved	A	5.1.0	Architectural requirements	S2
SP-010333	23.221	010	1	4.0.0	Rel-4	Editorial Corrections to 23.221 section 5.2	Approved	F	4.1.0	Architectural requirements	S2
SP-010333	23.221	011	1	5.0.0	Rel-5	Editorial Corrections to 23.221 section 5.2	Approved	A	5.1.0	Architectural requirements	S2
SP-010333	23.221	012	1	5.0.0	Rel-5	The introduction of area concepts for GERAN R5	Approved	B	5.1.0	Architectural requirements	S2
SP-010333	23.221	013	1	5.0.0	Rel-5	Basic principles for MS controlled Cell/Interface selection/re-selection	Approved	B	5.1.0	Architectural requirements	S2

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SP-010335	23.228	009	1	5.0.0	Rel-5	Registration of users with multiple public identifiers: avoiding useless registration messages	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	014	1	5.0.0	Rel-5	Registration flows	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	015	1	5.0.0	Rel-5	MT call procedures for unregistered subscriber	Approved	B	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	017	1	5.0.0	Rel-5	Providing local services in the IM Subsystem	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	018	1	5.0.0	Rel-5	Emergency call handling in the IMS	Approved	B	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	020	1	5.0.0	Rel-5	Registration information removal from S-CSCF	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	023	1	5.0.0	Rel-5	Changes for DTMF ToneInterworking	Approved	F	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	028	1	5.0.0	Rel-5	SLF Mechanism for all kinds of CSCF types	Approved	B	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	036	1	5.0.0	Rel-5	23.228 Additional information on the service control architecture	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	038	1	5.0.0	Rel-5	Combined Services Architecture	Approved	C	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	040	1	5.0.0	Rel-5	Security functional roles for Roles of Session Control	Approved	F	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	042		5.0.0	Rel-5	Definition of default codec in 23.228	Approved	F	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	044		5.0.0	Rel-5	Session handling in IM (Redirection)	Approved	F	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010335	23.228	046		5.0.0	Rel-5	Subscription Updating Procedure	Approved	B	5.1.0	IP multimedia subsystem; Stage 2	S2
SP-010371	23.271	022	2	4.1.0	Rel-4	Alignment of 23.271 with GERAN LCS stage 2, TS 43.059	Approved	F	4.2.0	Functional stage 2 description of location services	S2
SP-010371	23.271	023	1	4.1.0	Rel-4	Completion of changes regarding UE LCS capabilities	Approved	F	4.2.0	Functional stage 2 description of location services	S2
SP-010371	23.271	024		4.1.0	Rel-4	Applicability of LCS services in CS domain to GPRS mobile stations	Approved	F	4.2.0	Functional stage 2 description of location services	S2
SP-010371	23.271	026	4	4.1.0	Rel-4	Re-attempt of location request when MS becomes reachable	Approved	F	4.2.0	Functional stage 2 description of location services	S2
SP-010305	26.101	005	2	3.1.0	R99	Correction to SID Frame Mapping	approved	F	3.2.0	AMR speech Codec; Frame Structure	S4
SP-010305	26.101	006		4.0.0	Rel-4	Correction to SID Frame Mapping	approved	A	4.1.0	AMR speech Codec; Frame Structure	S4
SP-010306	26.104	003	1	3.1.0	R99	Limiting predicted codebook gain computing in encoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	004	1	4.0.0	Rel-4	Limiting predicted codebook gain computing in encoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	005	1	3.1.0	R99	Correction of decoder operation in error concealment of lost frames	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	006	1	4.0.0	Rel-4	Correction of decoder operation in error concealment of lost frames	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	007	1	3.1.0	R99	Correction of mode state bug in AMR decoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	008	1	4.0.0	Rel-4	Correction of mode state bug in AMR decoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	009			R99	Correction to make encoder and decoder memories independent	approved			AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	010			Rel-4	Correction to make encoder and decoder memories independent	approved			AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	011	1	3.1.0	R99	Correction of decoder Reset	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	012	1	4.0.0	Rel-4	Correction of decoder Reset	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4

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SP-010306	26.104	013	1	3.1.0	R99	Correction of comfort noise parameter interpolation bug of AMR decoder	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	014	1	4.0.0	Rel-4	Correction of comfort noise parameter interpolation bug of AMR decoder	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	015	1	3.1.0	R99	Correction of the TX_TYPE and RX_TYPE identifiers	approved	F	3.2.0	AMR speech Codec; Floating point C-Code	S4
SP-010306	26.104	016	1	4.0.0	Rel-4	Correction of the TX_TYPE and RX_TYPE identifiers	approved	A	4.1.0	AMR speech Codec; Floating point C-Code	S4
SP-010307	26.173	001	1	5.0.0	Rel5	Unnecessary printing in Az_isp-function	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010307	26.173	002	1	5.0.0	Rel5	Overflow in isp_az.c	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010307	26.173	003	1	5.0.0	Rel5	Error in the ISF extrapolation in 6.60 kbit/s mode	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010307	26.173	004	1	5.0.0	Rel5	14-bit masking to decoder	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010307	26.173	005	1	5.0.0	Rel5	Correction of the homing function	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010307	26.173	006	1	5.0.0	Rel5	Fixed codebook initialisation	approved	F	5.1.0	AMR speech codec, wideband; C-source code	S4
SP-010308	26.174	001		5.0.0	Rel5	Update of AMR-WB test sequences	approved	F	5.1.0	AMR speech codec, wideband; Test sequences	S4
SP-010309	26.235	001		4.0.0	Rel-4	Update of AMR-NB and AMR-WB RTP payload	approved	F	4.1.0	Packet switched conversational multimedia applications; Default codecs	S4
SP-010378	26.235	002		4.0.0	Rel-5	Applicability of TS 26.235 to GERAN (FFS) (REL-5)	approved	F	5.0.0	Packet switched conversational multimedia applications; Default codecs	S4
SP-010310	28.062	001	1	4.0.0	Rel-4	Reference to a deleted TFO message	approved	F	4.1.0	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	S4
SP-010235	32.015	026		3.5.0	R99	Correct the Node Address IE	approved	F	3.6.0	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	S5
SP-010235	32.015	027		3.5.0	R99	Correct GGSN address in G-CDR and S-CDR	approved	F	3.6.0	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	S5
SP-010231	32.101	008		4.0.1	Rel-4	Scope update for Rel4	approved	F	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010231	32.101	009		4.0.1	Rel-4	Updates and Corrections for Rel4	approved	F	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010231	32.101	010		4.0.1	Rel-4	Alignment with TMF GB910 and associated Editorial improvements	approved	F	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010231	32.101	011		4.0.1	Rel-4	Update and re-organisation of Clause 8 (Functional Architecture)	approved	F	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010231	32.101	012		4.0.1	Rel-4	Introduce Subscription Management	approved	B	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010231	32.101	013		4.0.1	Rel-4	Introduction of QoS Management Annex	approved	B	4.1.0	3G Telecom Management principles and high level requirements	S5

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SP-010231	32.101	014		4.0.1	Rel-4	Update the definition of IRP terminology	approved	F	4.1.0	3G Telecom Management principles and high level requirements	S5
SP-010232	32.102	008		4.0.0	Rel-4	Correction of ITU-T TMN concerns	approved	D	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	009		4.0.0	Rel-4	Alignment with 3GPP drafting rules regarding headings	approved	D	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	010		4.0.0	Rel-4	Update of TM architectural aspects	approved	F	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	011		4.0.0	Rel-4	General clarifications and enhancements	approved	F	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	012		4.0.0	Rel-4	Alignment with 3GPP drafting rules regarding verbal forms for the expression of provisions	approved	F	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	013		4.0.0	Rel-4	Update and clarify compliance condition for a UMTS entity	approved	F	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	014		4.0.0	Rel-4	Delete OSA definition	approved	D	4.1.0	3G Telecom Management Architecture	S5
SP-010232	32.102	015		4.0.0	Rel-4	Enhancements of the IRP Concept	approved	F	4.1.0	3G Telecom Management Architecture	S5
SP-010237	32.104	009		4.0.0	Rel-4	Add new Features and Split into a multi-part TS	withdrawn	B		3G Performance Management	S5
SP-010284	32.106-5	003		3.1.0	R99	Correction of R99 filter definition which is inconsistent with the CORBA SS	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	S5
SP-010284	32.106-5	004		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1	S5
SP-010284	32.106-6	008		3.1.0	R99	Reposition “#pragma prefix” directive	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	S5
SP-010284	32.106-6	009		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1	S5
SP-010284	32.106-7	003		3.1.0	R99	Correction of UTRAN attributes	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1	S5
SP-010284	32.106-8	001		3.1.0	R99	Correct errors in DN name convention for Managed Objects	approved	F	3.2.0	Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects	S5
SP-010282	32.111-1	003		3.2.0	Rel-4	New features for Fault Management	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 1: 3G fault management requirements	S5
SP-010282	32.111-2	008		3.3.0	Rel-4	Alarm IRP: IS Rel4 - Addition of feature	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	S5
SP-010239	32.111-3	008		3.4.0	R99	Probable Cause “Intrusion Detection” is missing	approved	F	3.5.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	S5

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SP-010282	32.111-3	009		3.5.0	Rel-4	Alarm IRP: CORBA SS Rel4 - Addition of feature	approved	B	4.0.0	Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	S5
SP-010282	32.111-4	001		3.1.1	Rel-4	Alarm IRP: CMIP SS Rel4 - Addition of feature	withdrawn	B	4.0.0	Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	S5
SP-010313	33.102	144		3.8.0	R99	Correction to periodic local authentication	approved	F	3.9.0	Security Architecture	S3
SP-010313	33.102	145		4.0.0	Rel-4	Correction to periodic local authentication	approved	A	4.1.0	Security Architecture	S3
SP-010314	33.102	146		3.8.0	R99	Correction to COUNT-C description	approved	F	3.9.0	Security Architecture	S3
SP-010314	33.102	147		4.0.0	Rel-4	Correction to COUNT-C description	approved	A	4.1.0	Security Architecture	S3
SP-010315	33.102	148		4.0.0	Rel-5	Include reference to TS 43.041 GERAN Stage 2 specification	withdrawn	B	5.0.0	Security Architecture	S3
SP-010316	33.102	149		3.8.0	R99	Calculation and Wrap-around of START value	approved	F	3.9.0	Security Architecture	S3
SP-010316	33.102	150		4.0.0	Rel-4	Calculation and Wrap-around of START value	approved	A	4.1.0	Security Architecture	S3
SP-010317	33.102	151		3.8.0	R99	Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted	approved	F	3.9.0	Security Architecture	S3
SP-010317	33.102	152		4.0.0	Rel-4	Correction to integrity protection when the user is attached to a UTRAN with R99+ ME with a SIM inserted	approved	A	4.1.0	Security Architecture	S3
SP-010319	33.102	153		3.8.0	R99	THRESHOLD Check at RRC connection establishment	approved	F	3.9.0	Security Architecture	S3
SP-010319	33.102	154		4.0.0	Rel-4	THRESHOLD Check at RRC connection establishment	approved	A	4.1.0	Security Architecture	S3
SP-010320	33.103	014		3.5.0	R99	The multiplicity of Data integrity symbols	approved	F	3.6.0	Security Integration Guidelines	S3
SP-010320	33.103	015		4.0.0	Rel-4	The multiplicity of Data integrity symbols	approved	A	4.1.0	Security Integration Guidelines	S3
SP-010321	33.105	019		3.7.0	R99	Deletion of the maximum size of a RRC message	approved	F	3.8.0	Cryptographic Algorithm requirements	S3
SP-010321	33.105	020		4.0.0	Rel-4	Deletion of the maximum size of a RRC message	approved	A	4.1.0	Cryptographic Algorithm requirements	S3
SP-010374	33.107	004	1	4.0.0	Rel-5	Update of 33.107 to include Release 5 requirements	approved	B	5.0.0	Lawful interception architecture and functions	S3
SP-010277	41.102	001		4.0.0	Rel-4	Correction to list of specs	revised	F		GSM Release 4 specifications	SP
SP-010383	41.102	001	1	4.0.0	Rel-4	Correction to list of specs	approved	F		GSM Release 4 specifications	SP
SP-010303	46.010	001		4.0.0	Rel-4	Correction of Fig. 3.2	approved	A	4.1.0	Full-rate speech transcoding	S4
SP-010304	46.012	001		4.0.0	Rel-4	Corrections of the formula for averaging Xmax	approved	A	4.1.0	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4
TP-010101	02.19	A002		7.1.0	rel-5	Limitation of proactive command issued by an application	approved	C	5.0.0	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1	T3
TP-010103	02.48	A001		8.0.0	rel-4	Alignment with 3G release-4 specifications	approved	F	4.0.0	Security mechanisms for the SIM Application Toolkit; Stage 1	T3
TP-010102	03.19	A013		8.1.0	rel-5	Limitation of proactive command issued by an application	approved	C	5.0.0	GSM API for SIM toolkit stage 2	T3
TP-010102	03.19	A014		8.1.0	rel-5	Clarification of the handler size to the applet	approved	C	5.0.0	GSM API for SIM toolkit stage 2	T3
TP-010102	03.19	A015		8.1.0	rel-5	Integrate the Bearer Independent Protocol Feature defined release 99	approved	B	5.0.0	GSM API for SIM toolkit stage 2	T3
TP-010102	03.19	A016		8.1.0	R99	Clarifiaction and corrections following creation of the test specification	approved	F	8.2.0	GSM API for SIM toolkit stage 2	T3
TP-010104	03.48	A016		8.5.0	rel-5	Support of the bearer independent protocol feature	approved	B	5.0.0	Security Mechanisms for SIM Toolkit Application; Stage 2	T3
TP-010104	03.48	A017		8.5.0	R99	Correction to the Open Platform specification reference	approved	F	8.6.0	Security Mechanisms for SIM Toolkit Application; Stage 2	T3

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TP-010104	03.48	A018		8.5.0	rel-4	Alignment with 3G release-4 specifications	approved	F	4.0.0	Security Mechanisms for SIM Toolkit Application; Stage 2	T3
TP-010105	11.13	A001		7.0.0	R98	Corrections to the API Test plan, addition of the test area files and modification of the util package	approved	F	7.1.0	Test specification for SIM API for Java card	T3
TP-010151	11.14	A195		7.6.0	R98	Clarification of min and max length for GET INPUT	approved	F	7.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A196		8.6.0	R99	Clarification of min and max length for GET INPUT	approved	A	8.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A197		7.6.0	R98	Limitation of data field in the C-APDU and R-APDU data object	approved	F	7.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A198		8.6.0	R99	Limitation of data field in the C-APDU and R-APDU data object	approved	A	8.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A199		7.6.0	R98	REFRESH-SIM Initialization : correction of a reference	approved	F	7.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A200		8.6.0	R99	REFRESH-SIM Initialization : correction of a reference	approved	A	8.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010151	11.14	A201		8.6.0	R99	Correction of Annex J (Bearer independant protocol examples)	approved	F	8.7.0	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
TP-010128	23.040	022		4.2.0	rel-5	Addition of text and background colour	approved	B	5.0.0	Technical realisation of Short Message Service	T2
TP-010128	23.040	023		4.2.0	rel-4	Clarification of User Prompt Indicator	approved	F	4.3.0	Technical realisation of Short Message Service	T2
TP-010128	23.040	024		4.2.0	rel-5	Object Distribution Indicator	approved	B	5.0.0	Technical realisation of Short Message Service	T2
TP-010128	23.040	025		4.2.0	rel-4	Clarification of Email Addressing for Email – SMS Interworking	approved	F	4.3.0	Technical realisation of Short Message Service	T2
TP-010128	23.040	026		4.2.0	rel-4	Removal of duplicated values in TP-PID section	approved	F	4.3.0	Technical realisation of Short Message Service	T2
TP-010128	23.040	027		4.2.0	rel-4	Application Port Addressing Clarification	approved	F	4.3.0	Technical realisation of Short Message Service	T2
TP-010149	23.040	028	1	4.2.0	Rel-5	Extended objects in EMS	approved	B	5.0.0	Technical realisation of Short Message Service	T2
TP-010128	23.041	006		3.3.0	R99	Clarification of Geographical Scope	approved	F	3.4.0	Technical Realization of Cell Broadcast Service	T2
TP-010128	23.041	007		4.0.0	rel-4	Clarification of Geographical Scope	approved	A	4.1.0	Technical Realization of Cell Broadcast Service	T2
TP-010126	23.057	079		4.1.0	rel-4	Manufacturer RPK	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	080		4.1.0	rel-4	Correction of SIM insert/remove terminology	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	081		4.1.0	rel-4	Administrator mechanism	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	082		4.1.0	rel-4	Clarification of note 10 in table 6	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	083		4.1.0	rel-4	MExE Device Administrator	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2

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TP-010126	23.057	084		4.1.0	rel-4	Quality of Service Support	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	085		4.1.0	rel-4	Administrator Determination Mechanism	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	086		4.1.0	rel-4	Status of applications when valid RPK not available	postponed	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	087		4.1.0	rel-4	Executable integrity	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	088		4.1.0	rel-4	Clarifications on call control and signed packages	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	089		4.1.0	rel-4	More Abbreviations	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	090		4.1.0	rel-4	CC/PP Working Group Web Page	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	091		4.1.0	rel-4	Using WBXML when transporting CC/PP over WSP	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	092		4.1.0	rel-4	Clarification of root public keys	postponed	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010126	23.057	093		4.1.0	rel-4	Certificate Chain Verification Diagram	approved	F	4.2.0	Mobile Execution Environment (MExE)	T2
TP-010128	23.140	004		4.2.0	rel-4	Corrections on MM4 example	approved	F	4.3.0	Multimedia Messaging Service (MMS)	T2
TP-010128	23.140	005		4.2.0	rel-4	MMS Media Codec/Format – Corrections, Clarifications and Updates	approved	F	4.3.0	Multimedia Messaging Service (MMS)	T2
TP-010128	23.140	006		4.2.0	rel-4	Address Hiding and Read-Reply Report	approved	F	4.3.0	Multimedia Messaging Service (MMS)	T2
TP-010128	23.140	007		4.2.0	rel-4	Correction of MMSE definition	approved	F	4.3.0	Multimedia Messaging Service (MMS)	T2
TP-010127	27.007	061		4.1.0	rel-4	Aligning command AT+CSNS with changes introduced to single numbering scheme	approved	A	4.2.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	062		3.8.0	R99	Aligning command AT+CSNS with changes introduced to single numbering scheme	approved	F	3.9.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	063		3.8.0	R99	Inclusion of multimedia values to command AT+CBST	approved	F	3.9.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	064		4.1.0	rel-4	Inclusion of multimedia values to command AT+CBST	approved	A	4.2.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	065		3.8.0	R99	Modification to Request Packet Domain service 'D' command	approved	F	3.9.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	066		4.1.0	rel-4	Modification to Request Packet Domain service 'D' command	approved	A	4.2.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	067		3.8.0	R99	Inclusion of IPv6 and removal of X.25 and OSPIH <PDP_type> values	approved	F	3.9.0	AT command set for 3G User Equipment (UE)	T2
TP-010127	27.007	068		4.1.0	rel-4	Inclusion of IPv6 and removal of X.25 and OSPIH <PDP_type> values	approved	A	4.2.0	AT command set for 3G User Equipment (UE)	T2
TP-010107	31.102	079		3.5.0	R99	Alignment of Status Words for AUTHENTICATE with TS 102 221	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	080		4.0.0	rel-4	Alignment of Status Words for AUTHENTICATE with TS 102 221	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	081		3.5.0	R99	Correction of EF(ECC) (note: R99 only)	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	082		4.0.0	rel-4	Addition of Operators Preferences file for GPRS service usage	postponed	B		Characteristics of the USIM Application	T3
TP-010107	31.102	083		3.5.0	R99	Correction to EF(HPLMNwACT) access condition	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	084		4.0.0	rel-4	Correction to EF(HPLMNwACT) access condition	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	085	1	3.5.0	R99	General corrections	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	086		4.0.0	rel-4	General corrections	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	087	1	3.5.0	R99	Clarification of the Authenticate command description	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	088		3.5.0	R99	Clarification of the type 3 links of the phonebook	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	089		4.0.0	rel-4	Clarification of the type 3 links of the phonebook	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	090		3.5.0	R99	Correction of compact Edge files	approved	F	3.6.0	Characteristics of the USIM Application	T3
TP-010107	31.102	091		3.5.0	R99	Clarification of OCT/ICT files	approved	F	3.6.0	Characteristics of the USIM Application	T3

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TP-010107	31.102	092		4.0.0	rel-4	Clarification of OCT/ICT files	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	093		4.0.0	rel-4	Clarification of the Authenticate command description	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	094		4.0.0	rel-4	Correction of compact Edge files	approved	A	4.1.0	Characteristics of the USIM Application	T3
TP-010107	31.102	095		4.0.0	rel-4	New implementation of SPN	approved	C	4.1.0	Characteristics of the USIM Application	T3
TP-010151	31.111	041		3.4.0	R99	Correction to NMR functionnality (and BCCH list & TA)	approved	F	3.5.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	042		4.2.1	rel-4	Correction to NMR functionnality (and BCCH list & TA)	approved	A	4.3.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	043		3.4.0	R99	General corrections	approved	F	3.5.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	044		4.2.1	rel-4	General corrections	approved	A	4.3.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	045		3.4.0	R99	Clarification of min and max length for GET INPUT	approved	F	3.5.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	046		4.2.1	rel-4	Clarification of min and max length for GET INPUT	approved	A	4.3.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	047		3.4.0	R99	Limitation of data field in the C-APDU and R-APDU data object	approved	F	3.5.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	048		4.2.1	rel-4	Limitation of data field in the C-APDU and R-APDU data object	approved	A	4.3.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	049		3.4.0	R99	Correction of Annex I (Bearer independant protocol examples)	approved	F	3.5.0	USIM Application Toolkit (USAT)	T3
TP-010151	31.111	050		4.2.1	rel-4	Correction of Annex I (Bearer independant protocol examples)	approved	A	4.3.0	USIM Application Toolkit (USAT)	T3
TP-010108	31.121	001		3.0.0	R99	Correction of EF(UST) used in the Test USIM	approved	F	3.1.0	UICC-terminal interface; USIM application test specification	T3
TP-010108	31.121	002		3.0.0	R99	Correction of EF(ECC) used in the Test USIM	approved	F	3.1.0	UICC-terminal interface; USIM application test specification	T3
TP-010108	31.121	003		3.0.0	R99	Correction to EF(HPLMN) regarding test USIMs	approved	F	3.1.0	UICC-terminal interface; USIM application test specification	T3
TP-010108	31.121	004		3.0.0	R99	Deletion of a duplicated test case	approved	F	3.1.0	UICC-terminal interface; USIM application test specification	T3
TP-010108	31.121	005		3.0.0	rel-4	Modification of EF ECC used in the Test USIM	approved	F	4.0.0	UICC-terminal interface; USIM application test specification	T3
TP-010118	34.108	040		3.3.0	R99	Corrections to clause 6.10 FDD parameters	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	041		3.3.0	R99	Corrections to clause 6.10 TDD parameters	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	042		3.3.0	R99	Adding section for radio bearer configurations intended for functional testing	approved	D	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	043		3.3.0	R99	Update of list of abbreviations	approved	D	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	044		3.3.0	R99	Updates to clause 6.1 and 9	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	045		3.3.0	R99	Updates to clause 7.4	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	046		3.3.0	R99	clause 6.1: System Information Blocks for TDD Mode	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010118	34.108	047		3.3.0	R99	Editorial corrections and removal of a reference document	approved	F	3.4.0	Common Test Environments for User Equipment (UE) Conformance Testing	T1
TP-010119	34.121	083		3.4.0	R99	CR: Addition of Test System uncertainties and Test Tolerances	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
TP-010119	34.121	084		3.4.0	R99	CR: Measurement accuracy of CPICH RSCP	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	085		3.4.0	R99	CR: Measurement accuracy of CPICH Ec/Io	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	086		3.4.0	R99	CR: Modifications to the structure of RRM test cases (FDD)	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	087		3.4.0	R99	Maintenance CR: Propagation condition 250 km/h	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	088		3.4.0	R99	Maintenance CR: Removal of square brackets	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	089		3.4.0	R99	Maintenance CR: Tx power for Rx characteristics measurement	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	090		3.4.0	R99	Maintenance CR: Correction of Definition of multi-code OCNS signal	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	091		3.4.0	R99	Maintenance CR: Conformance requirement to Minimum requirement	approved	D	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	092		3.4.0	R99	Maintenance CR: Test conditions for TS 34.121	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	093		3.4.0	R99	Maintenance CR: Editorial correction 34.121	approved	D	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	094		3.4.0	R99	Maintenance CR: closed loop power control close to the limits	approved	C	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	095		3.4.0	R99	Maintenance CR: romoval of annex.I	approved	D	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	096		3.4.0	R99	Maintenance CR: correction to annex.E	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010119	34.121	097		3.4.0	R99	Maintenance CR: corrections to TS34.121	approved	F	3.5.0	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1
TP-010120	34.122	033		3.3.0	R99	CR:New Power Classes require new test tolerances	approved	F	3.4.0	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T1
TP-010120	34.122	034		3.3.0	R99	CR:Test tolerances for Output Power Dynamic	approved	F	3.4.0	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T1
TP-010120	34.122	035		3.3.0	Rel-4	CR:Inclusion of 1.28 Mcps TDD [Rel-4]	approved	B	4.0.0	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T1
TP-010121	34.123-1	053		3.3.0	R99	Idle mode tests	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	054		3.3.0	R99	Clause 7.2: Update of RLC tests to 25.322 v3.5.0	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	055		3.3.0	R99	Corrections to Clause 7.2: RLC test case updates	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	056		3.3.0	R99	Corrections to clause 7.3 PDCP	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	057		3.3.0	R99	Corrections to clause 7.4 BMC	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	058		3.3.0	R99	7.1 Update to MAC test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	059		3.3.0	R99	Modifications to the functional testing of CPCH related UE test cases	approved	C	3.4.0	UE conformance specification; Part 1: Conformance specification	T1

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
TP-010121	34.123-1	060		3.3.0	R99	Transmission RLC discard	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	061		3.3.0	R99	Updates to RRC test case	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	062		3.3.0	R99	Deletion of intersystem handover tests GERAN to UTRAN	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	063		3.3.0	R99	Corrections to CC test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	064		3.3.0	R99	Corrections to Emergency call test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	065		3.3.0	R99	Corrections to test of autocalling restrictions	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	066		3.3.0	R99	Corrections to call re-establishment tests in CC	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	067		3.3.0	R99	MM test case update	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	068		3.3.0	R99	CR to 34.123-1	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	069		3.3.0	R99	SMS Update	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	070		3.3.0	R99	SMS test specification	approved	C	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	071		3.3.0	R99	Update to GMM test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	072		3.3.0	R99	GMM service request test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	073		3.3.0	R99	GMM authentication reject test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	074		3.3.0	R99	Modifications to Clause 12 (GMM)	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	075		3.3.0	R99	Correction in test case 11.1, because of problems in core-specs	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	076		3.3.0	R99	Procedure and Expected Sequence Corrections to 11.1.2.	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	077		3.3.0	R99	Adding section for multi-layer functional testing	approved	D	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	078		3.3.0	R99	Update of interoperability radio bearer test cases	approved	F	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010121	34.123-1	079		3.3.0	R99	CR to TS 34.123-1 Update of Table B/1	approved	D	3.4.0	UE conformance specification; Part 1: Conformance specification	T1
TP-010122	34.123-2	010		3.3.0	R99	ICS for Idle mode tests	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	011		3.3.0	R99	Update to applicability tables for RLC tests	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1

TSG Doc	SPEC	CR	rev	Current version	Phase	SUBJECT	TSG status	Cat	New version	Specification Title	WG Responsible
TP-010122	34.123-2	012		3.3.0	R99	Update to MAC test applicability tables	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	013		3.3.0	R99	Update of applicability table	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	014		3.3.0	R99	Deletion of applicability statement for intersystem handover tests GERAN to UTRAN	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	015		3.3.0	R99	Corrections to applicability for CC test cases	approved	D	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	016		3.3.0	R99	Corrections to applicability for CC test cases	approved	D	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	017		3.3.0	R99	MM test case ICS update	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	018		3.3.0	R99	Correction to MM applicability	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	019		3.3.0	R99	Correction and Addition of PICS and applicability tables for MM, SMS auto-calling, emergency call and intersystem HO test cases	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	020		3.3.0	R99	Update to SMS Applicability tables	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	021		3.3.0	R99	SMS applicability	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	022		3.3.0	R99	GMM ICS update	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010122	34.123-2	023		3.3.0	R99	Update of applicability of interoperability radio bearer test cases	approved	F	3.4.0	UE conformance specification; Part 2: Implementation conformance statement (ICS)	T1
TP-010109	51.011	001		4.0.0	rel-4	Addition of GPRS operator preferences	postponed	B		Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	T3
TP-010109	51.011	002		4.0.0	rel-4	Introduction of USIM Features in to the SIM	approved	B	4.1.0	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	T3

Annex G: Definition of Release 4, extracted from the Project Plan - version 01/07/11

To be updated

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2	TSG RAN	NA	Yes	Evolutions of the transport in the UTRAN	ETRAN	TSG	Mon 17/07/00	Fri 14/12/01	39%	No	No			Francois Courau
12	WG RAN3	Rel4	No	QoS optimisation for AAL2 connections over Iub and Iur interfaces	ETRAN-QoSAAL2	TSG	Mon 21/08/00	Fri 30/03/01	100%	Yes	Yes			T. Yoshimura, Japan Telecom
1995	WG RAN3	Rel4	No	Transport bearer modification procedure on Iub, Iur, and Iu	ETRAN-MigrMod	TSG	Mon 02/10/00	Fri 30/03/01	100%	Yes	Yes			T. Yoshimura, Japan Telecom
4	WG CN4	NA	Yes	Evolutions of the transport in the CN	CNTRSP		Mon 29/05/00	Tue 11/09/01	88%	No	No		WI formulation assigned to N4	
859	WG CN4	Rel4	No	IP Transport of CN protocols (e.g., CAP, MAP)	SS7IP		Thu 07/12/00	Tue 11/09/01	80%	No	No		AS: corrected to Rel4 as stated at SA#10	
1216	TSG RAN	NA	Yes	Improvements of Radio Interface	RInImp	TSG	Mon 19/06/00	Fri 28/03/03	27%	No	No			
1509	WG RAN4	Rel4	No	UTRA repeater specification (master)	RInImp-REP	TSG	Mon 10/07/00	Wed 21/03/01	100%	Yes	Yes			"T. Kummetz, Mikom; Alf Ahlström, Allgon"
1994	WG RAN1	Rel4	No	DSCH power control improvement in soft handover	RInImp-DSCHsho	TSG	Mon 11/09/00	Fri 23/03/01	100%	Yes	Yes			A. Toskala, Nokia
1996	WG RAN4	Rel4	No	UMTS 1800	RInImp-UMTS18	TSG	Mon 25/09/00	Fri 29/06/01	85%	Yes	Yes			H. Benn, Motorola
1222	WG RAN1	Rel4	No	Low Chip Rate TDD option	LCRTDD	TSG	Wed 19/07/00	Fri 27/06/03	63%	No	No			G. Yang, CWTS
1228	WG RAN3	Rel4	No	Iub/Iur protocol aspects	LCRTDD-IubIur	TSG	Mon 14/08/00	Fri 30/03/01	100%	Yes	Yes			Y. Liu, CWTS
9	TSG RAN	NA	Yes	RAN improvements	RANimp	TSG	Mon 14/08/00	Fri 28/06/02	18%	No	No			
656	WG RAN3	Rel4	No	RRM optimization for Iur and Iub	RANimp-RRMopt	TSG	Fri 16/03/01	Wed 12/12/01	52%	Yes	Yes			Gert-Jan van Lieshout, Ericsson
655	WG RAN1	Rel4	No	Node B synchronisation for TDD	RANimp-NBsync	TSG	Mon 14/08/00	Fri 23/03/01	100%	Yes	Yes			S. Oestreich, Siemens
2206	WG RAN2	Rel4	No	RAB support enhancement - Robust Header Compression (ROHC)	RANimp-RABSE	TSG	Mon 21/08/00	Fri 23/03/01	100%	No	No		"29 Nov 2000: split into ROHC and non-ROHC part; 5 Mar 2001: splitting off of ROHC for Rel-4 agreed by R2"	M. Israelsson, A. Krishnarajah, Ericsson
1539	WG SA4	Rel4	No	Transparent End-to-End PS mobile streaming application	PSTREAM	TSG	Mon 03/04/00	Wed 21/03/01	100%	Yes	Yes	26.233, 26.234		
1652	WG CN1	NA	Yes	Emergency call enhancements	EMC1	WG	Mon 01/05/00	Tue 02/04/02	19%	Yes	No			Mr Rouzbeh, Ericsson
1654	WG CN1	Rel4	No	For CS based calls	EMC1-CS	TSG	Mon 01/05/00	Tue 26/09/00	100%	Yes	Yes		WI approved in TSG_10...	Mr Rouzbeh, Ericsson

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
1322	WG SA2	Rel4	No	Enable bearer independent CS architecture	CSSPLIT	TSG	Mon 03/01/00	Fri 15/03/02	60%	Yes	Yes			Alexander Milinski, Siemens
1340	WG SA1	Rel4	No	Facsimile	FAX	TSG	Tue 22/02/00	Fri 22/12/00	74%	Yes	Yes			
1637	WG SA1	NA	Yes	OSA enhancements	OSA1	TSG	Wed 28/06/00	Fri 21/12/01	49%	No	No	22.127, 23.127, 29.198-x, 29.998-x	WID by S1 obsolete/az 010316	Jörg Swetina, SIEMENS AG
1424	WG SA2	Rel4	No	Interactions OSA - e-commerce	OSA1-ECOM	TSG	Mon 11/09/00	Fri 30/03/01	100%	No	No		New Network Service Capability Features (N-SCFs) and evolutions of existing ones, e.g. , Call Control SCF (Call Party Handling, SIP), Positioning SCF (see BB Location Services/LCS Application Interfaces), Terminal Capabilities SCF, Charging SCF, E-Commerc	
1786	WG SA1	Rel4	No	LCS - OSA interfaces	OSA1-LCSI	TSG	Mon 11/09/00	Fri 30/03/01	100%	No	No		az 24/05/01: Rel4 completion 90->100%.	Jörg Swetina, SIEMENS AG
1445	WG T2	NA	No	MExE enhancements Rel-4	MEXE	TSG	Mon 03/01/00	Fri 14/12/01	89%	Yes	Yes			
1810	WG T2	Rel4	No	MExE Rel4 Improvements and Investigations	MEXE-ENHANC	TSG	Mon 03/01/00	Fri 15/12/00	100%	No	Yes	22.057, 23.057		Mark CATALDO, Motorola
1541	WG CN4	Rel4	No	Transcoder-Free Operation	TrFO		Mon 03/01/00	Fri 30/03/01	100%	No	No		Lead given to CN4 from CN...	
1631	WG SA4	Rel4	No	Tandem Free aspects for 3G and between 2G and 3G systems	TFO		Tue 22/02/00	Fri 15/06/01	84%	No	No		RAN and CN to verify no problems for GSM terminals roaming in 3G R99	
1818	WG T2	Rel4	No	Multimedia Messaging	MMS	TSG	Tue 22/02/00	Wed 14/03/01	99%	No	Yes	22.140, 23.140		Josef Laumen, Siemens
1826	WG T2	NA	Yes	Terminal interfaces	TI		Mon 03/01/00	Fri 21/12/01	58%	No	No			
1827	WG T2	Rel4	No	AT commands enhancements	TI-ATC		Mon 03/01/00	Wed 14/03/01	71%	No	No	27.007		
1829	WG T2	NA	Yes	Wide Area Data Synchronisation	TI-WADS		Mon 03/01/00	Fri 21/12/01	49%	No	No		AS: Rel5 changed to Rel4 according to SA#10 decision, milestone on testing added	
1830	WG T2	Rel4	No	Continues evolution of Synchronisation protocol	TI-SYNC-EVOL		Mon 03/01/00	Wed 14/03/01	100%	No	No	27.903, 27.103		
1832	WG T2	Rel4	No	Terminal local model	TLM	TSG	Tue 16/05/00	Thu 15/03/01	100%	No	Yes	23.227		Olga Tomé, Ericsson
1536	WG SA2	NA	Yes	Location Services enhancements	LCS1	TSG	Mon 03/04/00	Fri 29/11/02	23%	No	No			Jan Kall, Nokia
523	WG SA2	Rel4	No	LCS support in the CS domain	LCS1-CS		Mon 15/05/00	Fri 19/01/01	44%	No	No		Only MAP impact foreseen so far. To be further split if needed.	
525	WG SA2	Rel4	No	LCS support in the PS domain	LCS1-PS		Mon 01/05/00	Fri 30/03/01	88%	No	No			

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2229	WG T2	Rel4	No	CBS interactions	LCS1-CBS		Fri 14/04/00	Wed 14/03/01	100%	No	No	23.041		
1600	TSG RAN	Rel5	No	UE positioning	LCS1-UEpos	TSG	Mon 03/04/00	Fri 28/12/01	40%	Yes	Yes			
1601	WG RAN3	Rel4	No	Iub/Iur interfaces for methods Rel 99	LCS1-UEpos-IubIur	TSG	Mon 03/04/00	Fri 30/03/01	100%	No	Yes		"27/11: WG corrected; rapporteur corrected"	Yun-Chao Hu, Ericsson
1602	WG RAN2	Rel4	No	UE positioning enhancements - IPDL for TDD	LCS1-UEpos-enh	TSG	Mon 28/08/00	Fri 23/03/01	100%	No	No		5 Mar 2001: splitting off of IPDL for TDD for Rel-4 agreed by R2	M. Beckmann, Siemens
1560	WG T3	NA	Yes	UICC/(U)SIM enhancements and interworking	UICC1		Mon 24/07/00	Fri 14/12/01	57%	No	No			
1799	WG T3	Rel4	No	Common PCN Handset Specification (CPHS)	UICC1-CPHS	TSG	Mon 24/07/00	Fri 23/03/01	100%	No	Yes	27.103	28/5/2001: CRs approved at TP-11. WI complete.	?, One2One
1800	WG T3	NA	Yes	(U)SIM toolkit enhancements	USAT1		Mon 05/06/00	Thu 14/03/02	42%	No	No			
2034	WG T3	Rel4	No	USAT local link	USAT1-LocLnk	TSG	Mon 05/06/00	Fri 23/03/01	100%	Yes	Yes		25/5/2001:CR was approved at TP-11. WI is complete	Jean-Francois Rubon (Gemplus)
0	WG SA3	NA	No	Security enhancements	SEC1	TSG	Mon 03/01/00	Fri 14/06/02	27%	No	No		Added BB UE authentication and rapporteur added	Peter Howard, Vodafone
2099	WG SA3	Rel4	No	UE triggered authentication during connections	SEC1-UETADC	TSG	Tue 14/03/00	Tue 14/03/00	0%	Yes	Yes		"Approved TSG SA #09; S3#17 TO BE DELETED (no supporting companies)"	Peter Howard, Vodafone
1587	WG SA3	Rel4	No	Evolution of GSM CS algorithms (e.g. A5/3 development and deployment)	SEC1-CSALGO1	TSG	Mon 03/01/00	Mon 15/01/01	34%	Yes	Yes		May 01, Integration of sec archi, Feb 01, Complete CRs with S3 review, Apr 01, CRs to be approved at TSG, May 01. S3#17: No supporting companies	?
1588	WG SA3	Rel4	No	Evolution of GSM PS algorithms (e.g. GEA 2 deployment)	SEC1-PSALGO1	TSG	Tue 22/02/00	Fri 22/12/00	73%	Yes	Yes		Complete TSG#09 (09/2000). S3#17: No supporting companies	?
0	WG SA3	NA	Yes	MAP application layer security	SEC1-MAPAL	TSG	Tue 22/02/00	Fri 21/12/01	54%	No	Yes		TO DELETE: REPLACED BY NDS-MAP and NDS-IP	
0	WG SA3	Rel4	No	"Network Domain Security; MAP application layer security"	SEC1-NDS-MAP	WG	Mon 04/09/00	Fri 30/03/01	100%	No	No		S3#18: Replaces MAPSec WI 1583. Related to SEC1-NDS-IP	Geir M. Køien, Telenor
1594	WG SA3	Rel4	No	Visibility and Configurability of security	SEC1-VCS	TSG	Mon 03/01/00	Fri 15/06/01	0%	Yes	Yes		Requirements capture, Aug , Definition of security architecture, CRs approved at TSG level, Dec. S3#17 behind schedule, Release to be determined S3#18	Sébastien Nguyen Ngoc, France Telecom
1142	WG SA5	NA	Yes	Charging and OAM&P (Master)	OAM	TSG	Fri 01/12/00	Fri 29/03/02	73%	No	No	32-series	az: WID appr.SA#10.	Albert YUHAN (VoiceStream Wireless), Michael TRUSS (Motorola)

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2089	WG SA5	Rel4	No	Principles, high level Requirements and Architecture	OAM-AR/PR	TSG	Fri 01/12/00	Thu 21/06/01	100%	Yes	Yes	32.101, 32.102	az: WID appr.SA#10.	Michael TRUSS (Motorola), Tommy BERGGREN (Telia AB)
2088	WG SA5	Rel4	No	Performance Management	OAM-PM	TSG	Fri 01/12/00	Thu 21/06/01	85%	No	No	32.104	az: WID appr.SA#10.	Karl-Heinz NENNER (T-Mobil)
2081	WG SA5	Rel4	No	Fault Management	OAM-FM	TSG	Fri 01/12/00	Thu 21/06/01	95%	Yes	Yes	32.111-1/4	az: WID appr.SA#10.	Patrick JURÉ (Lucent Technologies)
2082	WG SA5	Rel4	No	Configuration Management	OAM-CM	TSG	Fri 01/12/00	Thu 21/06/01	100%	No	No	32.106-1/8	az: WID appr.SA#10.	Thomas TOVINGER (Ericsson)
2083	WG SA5	Rel4	No	Charging Management	OAM-CH	TSG	Fri 01/12/00	Thu 21/06/01	80%	No	No	32.2xy (Charging)	az: WID appr.SA#10.	Thaddeus KOBYLARZ (AT&T Wireless)
2071	WG SA5	Rel4	No	UTRAN Operations and Maintenance procedures	UOAM	TSG	Fri 01/12/00	Thu 21/06/01	100%	Yes	No	32.800	az: WID appr.SA#10.	Bert Boden (Mannesmann Mobilfunk)
1993	Generic	Rel4	No	small Technical Enhancements and Improvements for Rel4	TEI4	TSG	Mon 03/01/00	Fri 30/03/01	0%	Yes	Yes		"""Joker"" WI, to be used for a Rel 4 CR not related to any feature and with very limited impact on the system"	
2230	WG CN1	Rel4	No	Advanced Speech Call Items enhancements_REL-4	ASCI	TSG	Sun 03/12/00	Thu 14/03/02	23%	No	No		Approved in TSGN_10...	Sonia Garapaty
2310	TSG GERAN	Rel4	No	GERAN improvements 1	GEIMP1	TSG	Tue 09/05/00	Mon 19/03/01	100%	No	No			
2314	TSG GERAN	Rel4	No	GERAN improvements 2	GEIMP2	TSG	Mon 06/11/00	Mon 02/04/01	80%	No	No			
2324	TSG GERAN	Rel4	No	GERAN improvements 4		TSG	Mon 15/01/01	Fri 06/04/01	0%	No	No			
2403	TSG GERAN	Rel4	No	700 MHz spectrum support			Mon 03/01/00	Fri 08/06/01	94%	No	No			
2463	TSG CN	Rel4	No	Operator Determined Barring for Packet Oriented Services	ODB	TSG	Thu 01/06/00	Mon 19/03/01	100%	No	No		Completed WI missing from the P-plan Added for tracking	oshiyuki Tamura
2546	WG SA2	Rel4	No	UMTS QoS Architecture for PS Domain	QoSPS	TSG	Mon 03/01/00	Fri 01/06/01	53%	No	No			Ina Widegren, Ericsson

Annex H: Current content of Release 5, extracted from the Project Plan - version 01/07/11

To be updated

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2	TSG RAN	NA	Yes	Evolutions of the transport in the UTRAN	ETRAN	TSG	Mon 17/07/00	Fri 14/12/01	39%	No	No			Francois Courau
625	WG RAN3	Rel5	No	IP transport in the UTRAN	ETRAN-IPtrans	TSG	Mon 17/07/00	Fri 14/12/01	49%	Yes	Yes			Nicolas Drevon, Alcatel
2257	WG RAN3	Rel5	No	Evolution of transport in UTRAN and GERAN	ETRANG	TSG	Mon 05/03/01	Tue 11/12/01	0%	No	No			
4	WG CN4	NA	Yes	Evolutions of the transport in the CN	CNTRSP		Mon 29/05/00	Tue 11/09/01	88%	No	No		WI formulation assigned to N4	
859	WG CN4	Rel4	No	IP Transport of CN protocols (e.g., CAP, MAP)	SS7IP		Thu 07/12/00	Tue 11/09/01	80%	No	No		AS: corrected to Rel4 as stated at SA#10	
2455	WG CN4	Rel5	No	FS on Usage of SUA	SS7IP		Mon 12/03/01	Tue 11/09/01	50%	No	No			
2476	WG RAN2	Rel5	No	High Speed Downlink Packet Access	HSDPA	TSG	Mon 02/04/01	Fri 28/12/01	14%	No	No			Ravi Kuchibhotla, Motorola
2479	WG RAN3	Rel5	No	Iub/Iur protocol aspects		TSG	Mon 02/04/01	Fri 28/12/01	3%	No	No			Mike Diesen, Motorola
2481	WG RAN2	Rel5	No	Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN		TSG	Mon 09/07/01	Fri 28/06/02	0%	No	No		"This should be part of a feature in SA and is otherwise not valid; start and finish dates have no meaning yet"	Dimitris Koulakiotis, Nokia
1216	TSG RAN	NA	Yes	Improvements of Radio Interface	RInImp	TSG	Mon 19/06/00	Fri 28/03/03	27%	No	No			
1470	WG RAN1	Rel5	No	Improvement of inter-frequency and inter-system measurement	RInImp-IfIsM	TSG	Mon 01/01/01	Fri 28/12/01	10%	Yes	Yes			tbd by RAN WG1
1471	WG RAN4	Rel5	No	Base station classification	RInImp-BSClass	TSG	Mon 14/08/00	Tue 11/12/01	67%	Yes	Yes			A. Toskala, Nokia
1217	WG RAN2	Rel5	No	Hybrid ARQ II/III	RInImp-HARQ	TSG	Mon 21/08/00	Fri 28/09/01	7%	Yes	Yes			A. Sitte, Siemens
1218	WG RAN2	Rel5	No	Improved usage of downlink resource in FDD for CCTrCHs of dedicated type	RInImp-CCTrCH	TSG	Mon 09/10/00	Fri 28/09/01	0%	Yes	Yes		"12/12 Hans: moved to Rel-5; time line changed after decision in RAN#10"	N. Pereira, C. Mihailescu, Nortel Networks
1507	WG RAN1	Rel5	No	Terminal Power Saving features	RInImp-TPS	TSG	Mon 19/06/00	Tue 11/12/01	80%	Yes	Yes			M. Park, Samsung
2467	WG RAN4	Rel5	No	UMTS 1900	RInImp-UMTS19	TSG	Mon 19/03/01	Fri 21/09/01	20%	No	No			Howard Benn, Motorola
2468	WG RAN1	Rel5	No	Multiple Input Multiple Output antennas (MIMO)	RInImp-MIMO	TSG	Fri 16/03/01	Tue 05/03/02	0%	No	No			Howard Huang, Lucent
2469	WG RAN1	Rel5	No	Enhancement on the DSCH hard split mode	RInImp-DSCHhsp	TSG	Fri 16/03/01	Tue 11/12/01	10%	No	No			Jaeyoel KIM, Samsung

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2470	WG RAN1	Rel5	No	Gated DPCCH Transmission	RInImp-GatedDPCCH	TSG	Fri 16/03/01	Tue 18/09/01	50%	No	No			Ju Ho Lee, Samsung
2471	WG RAN1	Rel5	No	FS on Fast Cell Selection (FCS) for HS-DSCH	RInImp-FCS	TSG	Fri 16/03/01	Tue 11/12/01	0%	No	No			Robert Love, Motorola
1506	WG RAN1	Rel5	No	FS on Radio link performance enhancements	RInImp-Rlperf	TSG	Mon 14/08/00	Fri 21/12/01	7%	Yes	Yes			tbd by RAN WG1
1221	WG RAN1	Rel5	No	FS on USTS	RInImp-USTS	TSG	Mon 14/08/00	Fri 21/12/01	60%	Yes	Yes			D. Kim, SK Telecom
1997	WG RAN4	Rel5	No	FS on UE antenna efficency test method performance requirements	RInImp-UEAnTM	TSG	Mon 25/09/00	Fri 29/06/01	85%	Yes	Yes			O. Edvardsson, Allgon
2494	WG RAN4	Rel5	No	FS on the re-introduction of the downlink SIR measurement	RInImp-SIR	TSG	Mon 12/03/01	Fri 28/03/03	1%	No	No			Torgny Palenius, Ericsson
24001	WG RAN4	Rel5	No	FS on UTRA WideBand Distribution Systems	RInImp-WDS	TSG	Mon 12/03/01	Fri 28/03/03	1%	No	No			Andrea Casini, Tekmar Sistemi
2493	WG RAN4	Rel5	No	FS on mitigating the effect of CPICH interference at the UE	RInImp-CPICH_Intf	TSG	Mon 19/03/01	Fri 28/03/03	3%	No	No			Shimon Moshavi, Intel
9	TSG RAN	NA	Yes	RAN improvements	RANimp	TSG	Mon 14/08/00	Fri 28/06/02	18%	No	No			
2488	WG RAN3	Rel5	No	RL Timing Adjustment	RANimp-RRMopt-RLTA	TSG	Fri 16/03/01	Wed 12/12/01	8%	No	No			Elena Voltolina, Ericsson
2489	WG RAN3	Rel5	No	Separation of resource reservation and radio link activation	RANimp-RRMopt-SepRR	TSG	Fri 16/03/01	Wed 12/12/01	8%	No	No			Gert-Jan van Lieshout, Ericsson
2490	WG RAN3	Rel5	No	Improvement of Radio Resource Management across RNS and RNS/PSS	RANimp-ImpRRM	TSG	Fri 16/03/01	Wed 12/12/01	8%	No	No			Antti Toskala, Nokia
2491	WG RAN3	Rel5	No	Traffic Termination Point Swapping	RANimp-TTPS	TSG	Fri 16/03/01	Wed 12/12/01	8%	No	No			Antti Toskala, Nokia
624	WG RAN2	Rel5	No	RAB support enhancement - except Robust Header Compression (ROHC)	RANimp-RABSE	TSG	Mon 21/08/00	Fri 23/03/01	5%	Yes	Yes		"29 Nov 2000: split into ROHC and non-ROHC part; 5 Mar 2001: splitting off of ROHC for Rel-4 agreed by R2"	M. Israelsson, A. Krishnarajah, Ericsson
1680	TSG RAN	Rel5	No	Header compression removal/stripping in the RAN			Mon 21/08/00	Wed 20/06/01	0%	No	No		from AHR00-0031, contact RAN	
1686	TSG RAN	Rel5	No	Unequal error protection in PS domain in the RAN			Mon 21/08/00	Wed 20/06/01	0%	No	No		from AHR00-0031, contact RAN	
2472	WG RAN1	Rel5	No	Node B Synchronisation for 1.28 Mcps TDD	RANimp-NBSLCR	TSG	Fri 16/03/01	Tue 11/12/01	10%	No	No			Jinling HU, CWTS/CATT
1273	WG SA1	Rel5	No	Provisioning of IP-based multimedia services	IMS	TSG	Mon 21/02/00	Mon 21/10/02	24%	Yes	Yes		S1 WI proposed S1-000290...	Mark Cataldo, Motorola
1652	WG CN1	NA	Yes	Emergency call enhancements	EMC1	WG	Mon 01/05/00	Tue 02/04/02	19%	Yes	No			Mr Rouzbeh, Ericsson
1653	WG CN1	Rel5	No	For IP & PS based calls	EMC1-PS	TSG	Mon 14/08/00	Tue 02/04/02	15%	Yes	Yes			Mr Rouzbeh, Ericsson

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
1517	WG SA2	Rel5	No	Global Text Telephony	GTT	TSG	Wed 28/06/00	Fri 07/12/01	76%	No	No		SP-000162 agreed WI. Rapporteur...	Gunnar Hellström, Ericsson
1367	WG SA1	NA	Yes	VHE enhancements	VHE1	TSG	Mon 07/08/00	Fri 08/11/02	9%	No	No			Jumoke Ogunbekun, Fujitsu Europe
1368	WG SA2	Rel5	No	Detailed definition of the VHE user profile	VHE1-USERP	WG	Mon 07/08/00	Fri 08/11/02	17%	No	No			
2104	WG SA2	Rel5	No	Extensions to existing (and possibly new) toolkits	VHE1-TLKT1	WG	Mon 02/04/01	Tue 05/02/02	0%	No	No			
2108	WG SA2	Rel5	No	Interaction between toolkits to enable IMS	VHE1-IMS	WG	Mon 02/04/01	Tue 05/02/02	0%	No	No			
2112	WG SA2	Rel5	No	Transparent roaming for services	VHE1-RMG	WG	Mon 16/04/01	Tue 19/02/02	0%	No	No			
2532	WG SA2	Rel5	Yes	Charging	VHE1-CHR	WG	Mon 02/04/01	Tue 05/02/02	0%	No	No			
2535	WG SA2	Rel5	Yes	Other VHE Enhancements	VHE1-RMG	WG	Mon 16/04/01	Tue 19/02/02	0%	No	No			
1637	WG SA1	NA	Yes	OSA enhancements	OSA1	TSG	Wed 28/06/00	Fri 21/12/01	49%	No	No	22.127, 23.127, 29.198-x, 29.998-x	WID by S1 obsolete/az 010316	Jörg Swetina, SIEMENS AG
1429	WG SA2	Rel5	No	OSA APIs for MuMa CC	OSA1-CSCF	TSG	Tue 11/07/00	Fri 06/04/01	62%	No	No		For Rel5 even if completed by March	
1419	WG SA3	Rel5	No	OSA security	OSA1-SEC	TSG	Wed 28/06/00	Mon 03/09/01	40%	Yes	Yes		Christophe to contact BT and Ericsonn in S3 and S1	Colin Blanchard, BT
1433	WG SA2	Rel5	No	Retrieval of Terminal capabilities	OSA1-TC	TSG	Mon 25/09/00	Fri 30/11/01	73%	No	No			
2538	WG SA1	Rel5	No	Interaction with Rel-5 features		TSG	Fri 11/05/01	Fri 09/11/01	0%	No	No			
2519	WG CN5	Rel5	No	OSA Stage 3	OSA1	WG	Thu 24/05/01	Fri 21/12/01	5%	No	No	29.198, 29.998	WID approved at TSG#12	Lucas Klostermann (Ericsson)
2116	WG SA5	Rel5	No	(copy) Charging and OAM&P (!)	OSA1-OAM	TSG	Mon 25/12/00	Fri 30/03/01	20%	No	No	32.2xy (Charging)	Name changed to reflect actual name of OAM Feature. S5 should be contacted.	Thaddeus KOBYLARZ (AT&T Wireless)
1638	WG SA1	Rel5	No	CAMEL phase 4	CAMEL4	WG	Mon 03/01/00	Fri 21/12/01	43%	No	No			Michele Greche, Lucent Technolgies
1445	WG T2	NA	No	MExE enhancements Rel-4	MEXE	TSG	Mon 03/01/00	Fri 14/12/01	89%	Yes	Yes			
1447	WG SA3	Rel5	No	MExE Security Analysis Activity	MEXE-SEC	TSG	Tue 22/02/00	Fri 14/12/01	75%	Yes	Yes		Presentation to S3 of threats and countermeasures analysis: S3#15, Feature specification: S3#16. S3#18: WID updated	Colin Blanchard, BT
2464	WG T2	NA	No	MExE enhancements Rel-5	MEXE5	TSG	Wed 21/02/01	Mon 17/12/01	18%	Yes	Yes			
2465	WG T2	Rel5	No	MExE Rel-5 Security Analyisis	MEXE5-SEC	TSG	Wed 21/02/01	Mon 17/12/01	5%	Yes	Yes	33.102, 22.057, 23.057		Andrew Myers, BT

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2466	WG T2	Rel5	No	MExE Rel-5 Improvements and Investigations	MEXE5-ENHANC	TSG	Mon 26/03/01	Mon 17/12/01	75%	No	Yes	22.057, 23.057		Mark CATALDO, Motorola
1625	WG SA4	Rel5	No	Wideband Telephony Service - AMR	AMRWB	TSG	Sat 01/01/00	Fri 07/12/01	20%	No	No			Imre Varga, Siemens AG
1826	WG T2	NA	Yes	Terminal interfaces	TI		Mon 03/01/00	Fri 21/12/01	58%	No	No			
1829	WG T2	NA	Yes	Wide Area Data Synchronisation	TI-WADS		Mon 03/01/00	Fri 21/12/01	49%	No	No		AS: Rel5 changed to Rel4 according to SA#10 decision, milestone on testing added	
1831	WG T2	Rel5	No	vObjects and Other Constructs for Use in Data Synchronisation	TI-SYNC-VOBJ	TSG	Tue 16/05/00	Fri 21/12/01	26%	No	Yes	27.104	FR: moved from Rel4 to Rel5 at T2#12	Rob Lockhart, Motorola
2573	WG T2	Rel5	No	Terminal local model enhancements	TLM5	TSG	Mon 14/05/01	Wed 12/12/01	10%	No	Yes	23.227		Olga Tomé, Ericsson
1536	WG SA2	NA	Yes	Location Services enhancements	LCS1	TSG	Mon 03/04/00	Fri 29/11/02	23%	No	No			Jan Kall, Nokia
1171	WG SA1	Rel5	No	Event based and Periodic LCS	LCS1-EBP		Mon 22/05/00	Fri 22/06/01	56%	No	No			
519	WG SA5	Rel5	No	(copy) Charging and OAM&P (!)	LCS1-OAM	TSG	Mon 01/01/01	Fri 29/06/01	20%	No	No	32-series	Az: low priority/no ressources. AS: S5 should be contacted. Name changed to reflect actual name of OAM Feature.	Albert YUHAN (VoiceStream Wireless), Michael TRUSS (Motorola)
1600	TSG RAN	Rel5	No	UE positioning	LCS1-UEpos	TSG	Mon 03/04/00	Fri 28/12/01	40%	Yes	Yes			
2457	WG RAN2	Rel5	No	UE positioning enhancements - other methods	LCS1-UEpos-enh	TSG	Mon 28/08/00	Fri 28/12/01	24%	No	No		5 Mar 2001: splitting off of IPDL for TDD for Rel-4 agreed by R2	M. Beckmann, Siemens
2474	WG RAN2	Rel5	No	UE positioning enhancements for 1.28 Mcps TDD		TSG	Mon 09/04/01	Fri 28/12/01	0%	No	No			Xiaohua Mei, CATT
2475	WG RAN2	Rel5	No	Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel'4 positioning		TSG	Mon 09/04/01	Fri 28/12/01	0%	No	No			Antti Toskala, Nokia
2125	WG RAN2	Rel5	No	Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning	LCS-INTF	TSG	Mon 15/01/01	Fri 29/06/01	0%	No	No		Change of responsible group	Kirk Burroughs, Qualcomm
1560	WG T3	NA	Yes	UICC/(U)SIM enhancements and interworking	UICC1		Mon 24/07/00	Fri 14/12/01	57%	No	No			
2517	WG T3	Rel5	No	UICC/USIM Transport Protocol	UICC1-Protocl	TSG	Tue 12/06/01	Fri 14/12/01	0%	No	No		28/5/2001: Proposed new work item description for presentation to TP-12 (see TP-010112.	Sonia Compans (Gemplus)
1800	WG T3	NA	Yes	(U)SIM toolkit enhancements	USAT1		Mon 05/06/00	Thu 14/03/02	42%	No	No			
1566	WG T3	Rel5	No	Enhancements to (U)SIM toolkit secure messaging	USAT1-SM	TSG	Mon 02/04/01	Fri 27/07/01	0%	Yes	Yes	27.103	8/3/2001: Work not started as of T3-18, therefore changed to rel-5.	Daniel Erricson, Across Wireless

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
1801	WG T3	Rel5	No	Protocol Standardisation of a SIM Toolkit Interpreter	USAT1-Interpr	TSG	Mon 05/06/00	Thu 14/03/02	52%	No	Yes	27.103	28/5/2001: T3-19 proposed that since the stage 2 and 3 will not be presented to TP-12 for approval as expected, the WI will be moved to rel-5, with completion expected at TP-13.	Michael Meyer, G & D
1802	WG T3	NA	Yes	UICC API	USAT1-API		Mon 25/09/00	Fri 28/09/01	7%	No	No		8/3/2001: test spec is based on R99 core spec, so deleted from Workplan	
2031	WG T3	Rel5	No	Multos API	USAT1-API-MULTOS	TSG	Mon 25/09/00	Fri 28/09/01	7%	Yes	Yes			
0	WG SA3	NA	No	Security enhancements	SEC1	TSG	Mon 03/01/00	Fri 14/06/02	27%	No	No		Added BB UE authentication and rapporteur added	Peter Howard, Vodafone
1572	WG SA3	Rel5	Yes	Protection for user plane data	SEC1-PUPD	TSG	Mon 14/02/00	Fri 22/06/01	0%	Yes	Yes			Stuart Ward, Orange
1576	WG SA3		Yes	Network domain security	SEC1-NDS	TSG	Mon 21/02/00	Fri 28/09/01	29%	Yes	Yes		S3#17: All due in Rel5. (WI Update at S3#18)	Geir M. Køien, Telenor
1577	WG SA3	Rel5	No	Control plane protection in core network (e.g., GTP, CAP, MAP/IP, provided by IPsec)	SEC1-NDS		Mon 21/02/00	Thu 21/06/01	35%	No	No			
1580	WG SA3	Rel5	No	User plane protection in core network (e.g., provided by IPsec)	SEC1-NDS		Mon 21/02/00	Thu 21/06/01	35%	No	No		S3#17: Not started	
0	WG SA3	NA	Yes	MAP application layer security	SEC1-MAPAL	TSG	Tue 22/02/00	Fri 21/12/01	54%	No	Yes		TO DELETE: REPLACED BY NDS-MAP and NDS-IP	
0	WG SA3	Rel5	No	"Network Domain Security; IP network layer security (NDS/IP)"	SEC1-NDS-IP	WG	Thu 15/06/00	Fri 21/12/01	57%	No	No		S3#18: Replaces Key Management WI 1586. Related to SEC1-NDS-MAP	Geir M. Køien, Telenor
1595	WG SA3	Rel5	No	FIGS	SEC1-FIGS		Mon 03/01/00	Fri 22/06/01	0%	No	No		14/9/00: work behind schedule - WID modification agreed at SA#10	SP-000628
1365	WG SA2	Rel5	No	Support of Push Services	PUSH	TSG	Fri 12/05/00	Fri 22/06/01	86%	Yes	Yes		AS: Changed from FS to actual support of Push	Yoshinori Kitada, NTT Comware
1142	WG SA5	NA	Yes	Charging and OAM&P (Master)	OAM	TSG	Fri 01/12/00	Fri 29/03/02	73%	No	No	32-series	az: WID appr.SA#10.	Albert YUHAN (VoiceStream Wireless), Michael TRUSS (Motorola)
35000	WG SA5	Rel5	No	FS on User Equipment (UE) Management	OAM-UEM	TSG	Thu 21/06/01	Fri 29/03/02	5%	No	No	new TR 32.xyz, CRs to 32.101/2	az: WID appr.SA#12.	John Mudge (Vodafone)

WI ID	WG	Rel	Split	WI Name	Acronym	Appr Level	Start	End	% comp	WG Appd	TSG Appd	Impacted Specs	Notes	Rapporteur
2062	WG SA5	Rel5	No	Subscription Management	SM	TSG	Fri 29/12/00	Thu 21/06/01	40%	Yes	Yes	32.140, 22.057 (S1), 23.057 (T2), 32.101, 32.106	az: WID appr.SA#10.	Geoffrey CARYER (BT)
2243	WG SA2	Rel5	No	Intra Domain Connection of RAN Nodes to Multiple CN Nodes	MULCN	TSG	Mon 02/10/00	Wed 12/12/01	19%	No	No		No clear indication on the end date. Put to Rel5 by AS.	Stephen Terrill, Ericsson
2320	TSG GERAN	Rel5	No	GERAN improvements 3	GEIMP3	TSG	Mon 06/11/00	Fri 01/06/01	0%	No	No		BellSouth, Vodafone, Mannesmann, Telia, T-Mobil	Alain Ohana, BellSouth
2330	TSG GERAN	Rel5	No	GERAN support for IMS		TSG	Mon 01/05/00	Fri 07/12/01	35%	No	No		AWS, Nokia, Ericsson, Nortel, Siemens, Motorola	Shkumbin Hamiti, Nokia
2345	TSG GERAN	Rel5	No	Alignment of 3G functional split and Iu		TSG	Mon 07/08/00	Fri 07/12/01	31%	No	No		AWS, Nokia, Ericsson, Nortel, Siemens, Vodafone	Frank Muller, Ericsson
2392	TSG GERAN	Rel5	No	GERAN enhancements for streaming services 1			Mon 06/11/00	Fri 01/06/01	43%	No	No			
2396	TSG GERAN	Rel5	No	GERAN enhancements for streaming services 2			Mon 06/11/00	Fri 01/06/01	29%	No	No		AWS, Nokia, Ericsson, Nortel, Siemens, Motorola, Vodafone	Frank Muller, Ericsson
2412	TSG GERAN	Rel5	No	GERAN/UTRAN interface evolution 1			Mon 06/11/00	Fri 08/06/01	53%	No	No		SBC, Motorola, Nokia, Ericsson, Nortel	Marc Grant , SBC
2416	TSG GERAN	Rel5	No	GERAN/UTRAN interface evolution 2			Mon 06/11/00	Fri 08/06/01	53%	No	No			
2499	WG SA1	Rel5	No	Support of Presence Capability	PRESNC	TSG	Mon 19/03/01	Tue 19/03/02	0%	No	No			Mark Cataldo, Motorola
2507	WG SA1	Rel5	No	Display of Service Provider name on UE	SPNAME	TSG	Mon 25/12/00	Thu 20/12/01	17%	No	No			Michele Zarri, One to One
2520	WG SA5	Rel5	No	User Equipment Management	UEM	WG	Mon 25/06/01	Fri 28/06/02	0%	No	No		az: WID appr.SA#12.	John Mudge (Vodafone)
2527	WG SA2	Rel5	No	Emergency calls without UICC/SIM in netw. with IMS			Wed 30/05/01	Thu 28/03/02	0%	No	No		Per 30/5: This WID was approved in SA#11 as a feature. SA2 work on 23.221, 23.060 and 23.228 is targeted for TSG#13. The stage 3 work (mostly CN1?) is targeted for TSG#15 (March 2002)	
34001	WG SA4	Rel5	No	Extended Transparent End-to-End Packet Switched Streaming Service	PSS-E	TSG	Thu 21/06/01	Thu 20/12/01	0%	No	No	26.233, 26.234		O. Franceschi, Ericsson
2544	WG SA1	Rel5	No	Enhancement of Broadcast and Introduction of Multicast	BMMM		Fri 11/05/01	Mon 01/04/02	15%	No	No			
2556	WG SA2	Rel5	No	End to End QoS for PS Domain including IMS	E2EQoS	TSG	Wed 03/01/01	Tue 18/12/01	18%	No	No			Johnson Oyama, Ericsson
2569	WG T2	Rel5	No	Messaging enhancements Rel-5	MESS5	TSG	Fri 15/06/01	Fri 14/12/01	0%	No	Yes		support of UAProf, so this in my opinion is 100% complete	